



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 of 1 CSI Divisions 01 - 43 October 2016

County of San Mateo
Mechanical Works



GORDIAN®

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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in October 2016.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 1/2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task. Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 1/2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 ½ stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

The Adjustment Factors Include:

BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
 - home office overhead
 - insurance, bonds, and indemnification
 - project meetings, training, management and supervision
 - mobilization and close-out for the contract and each Job Order and
 - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

CONSTRUCTION RELATED COSTS:

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

PRICE VARIATIONS:

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

GENERAL COSTS:

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:

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Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
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- ☑ No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

General Interpretations:

WORKING HEIGHT:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

ASSEMBLIES:

- ☑ Assembly unit prices take precedence over individual component pricing.

TESTING:

- ☑ Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

MISCELLANEOUS:

- ☑ For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- ☑ Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- ☑ Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- ☑ Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- ☑ Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

SPECIFICATIONS:

- ☑ Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

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Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- ☑ The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

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Using The Construction Task Catalog®

Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

- ☒ The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{ height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{ height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 General Requirements

01 20 Price And Payment Procedures⁽⁰¹⁾

01 22 Unit Prices^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment^(01 22)

01 22 16 00-0001 Reimbursable Fees^(01 22 16)

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, etc., which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
Note: Reimbursable Fees will be paid to the contractor for eligible costs. The base cost of the Reimbursable Fee is \$1.00. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.			

01 22 20 Wage Rates^(01 22)

01 22 20 00-0001 Minimum Charge^(01 22 20)

Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.

01 22 20 00-0002	EA	Carpenter Minimum Charge.....	843.36
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0003	EA	Carpet, Linoleum Minimum Charge	822.02
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0004	EA	Cement Mason Minimum Charge	597.42
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0005	EA	Drywall Finisher Minimum Charge	771.70
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0006	EA	Drywall Installer Minimum Charge	847.44
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0007	EA	Electrician Minimum Charge	977.79
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0008	EA	Glazier Minimum Charge	749.71
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0009	EA	Insulator Minimum Charge.....	889.31
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0010	EA	Laborer Minimum Charge	599.75
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0011	EA	Landscape Maintenance Worker Minimum Charge	266.43
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0012	EA	Ornamental Metal Worker Minimum Charge	860.64
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0013	EA	Painter, Ordinary Minimum Charge	648.14
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0014	EA	Plasterer Minimum Charge	748.98
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0015	EA	Plumber Minimum Charge	1,086.28
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0016	EA	Roofer, Tile/Slate Minimum Charge	754.02
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0017	EA	Roofer, Composite Built-Up Minimum Charge	757.59
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0018	EA	Sheet Metal Worker Minimum Charge	1,015.86
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0019	EA	Sprinkler Installer Minimum Charge	1,024.04
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			

01	General Requirements
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0020	EA	Tile Layer (Floor) Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	683.05	
01 22 20 00-0021 Local Labor/Wage Rates (01 22 20)				
		Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.		
01 22 20 00-0022	HR	Asbestos Removal Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	59.96	
		For Foreman, Add	3.00	
		For Apprentice, Deduct	-11.99	
01 22 20 00-0023	HR	Insulator Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	108.04	
		For Foreman, Add	5.40	
		For Apprentice, Deduct	-21.61	
01 22 20 00-0024	HR	Boilermaker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	96.45	
		For Foreman, Add	4.82	
		For Apprentice, Deduct	-19.29	
01 22 20 00-0025	HR	Brick Layer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	80.41	
		For Foreman, Add	4.02	
		For Apprentice, Deduct	-16.08	
01 22 20 00-0026	HR	Carpenter Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	89.80	
		For Foreman, Add	4.49	
		For Apprentice, Deduct	-17.96	
01 22 20 00-0027	HR	Carpet, Linoleum Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	90.25	
		For Foreman, Add	4.51	
		For Apprentice, Deduct	-18.05	
01 22 20 00-0028	HR	Cement Mason Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	68.43	
		For Foreman, Add	3.42	
		For Apprentice, Deduct	-13.69	
01 22 20 00-0029	HR	Drywall Finisher Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	87.09	
		For Foreman, Add	4.35	
		For Apprentice, Deduct	-17.42	
01 22 20 00-0030	HR	Electrician Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	103.47	
		For Foreman, Add	5.17	
		For Apprentice, Deduct	-20.69	
01 22 20 00-0031	HR	Equipment Operator, Heavy (Crane) Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	84.82	
		For Foreman, Add	4.24	
		For Apprentice, Deduct	-16.96	
01 22 20 00-0032	HR	Equipment Operator, Medium (Bulldozer) Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	80.04	
		For Foreman, Add	4.00	
		For Apprentice, Deduct	-16.01	
01 22 20 00-0033	HR	Equipment Operator, Light (Backhoe, Skid-Steer Loader) Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	75.12	
		For Foreman, Add	3.76	
		For Apprentice, Deduct	-15.02	
01 22 20 00-0034	HR	Glazier Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	87.46	
		For Foreman, Add	4.37	
		For Apprentice, Deduct	-17.49	
01 22 20 00-0035	HR	Laborer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	71.84	
		For Foreman, Add	4.36	
		For Apprentice, Deduct	-17.44	
01 22 20 00-0037	HR	Marble Setter Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	83.05	
		For Foreman, Add	4.15	
		For Apprentice, Deduct	-16.61	
01 22 20 00-0038	HR	Millwright Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	87.64	
		For Foreman, Add	4.38	
		For Apprentice, Deduct	-17.53	
01 22 20 00-0039	HR	Mold Removal Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	65.23	
		For Foreman, Add	3.26	
		For Apprentice, Deduct	-13.05	
01 22 20 00-0040	HR	Painter, Ordinary Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	74.77	
		For Foreman, Add	3.74	
		For Apprentice, Deduct	-14.95	
01 22 20 00-0041	HR	Painter, Structural Steel Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	91.25	
		For Foreman, Add	4.56	
		For Apprentice, Deduct	-18.25	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0042	HR		Paperhanger.....	74.77	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.74	
			For Apprentice, Deduct	-14.95	
01 22 20 00-0043	HR		Pile Drivers.....	95.07	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	4.75	
			For Apprentice, Deduct	-19.01	
01 22 20 00-0044	HR		Plasterer.....	81.12	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	4.06	
			For Apprentice, Deduct	-16.22	
01 22 20 00-0045	HR		Plumber.....	110.78	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	5.54	
			For Apprentice, Deduct	-22.16	
01 22 20 00-0046	HR		Powderman.....	67.00	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.35	
			For Apprentice, Deduct	-13.40	
01 22 20 00-0047	HR		Rodman (Reinforcing)/Ornamental Steel Worker.....	84.10	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	4.21	
			For Apprentice, Deduct	-16.82	
01 22 20 00-0048	HR		Roofer, Composite.....	75.95	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.80	
			For Apprentice, Deduct	-15.19	
01 22 20 00-0049	HR		Roofer, Tile/Slate.....	75.50	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.78	
			For Apprentice, Deduct	-15.10	
01 22 20 00-0050	HR		Sheet Metal Worker.....	114.48	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	5.72	
			For Apprentice, Deduct	-22.90	
01 22 20 00-0051	HR		Sprinkler Installer.....	103.00	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	5.15	
			For Apprentice, Deduct	-20.60	
01 22 20 00-0052	HR		Steam / Pipe Fitter.....	110.78	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	5.54	
			For Apprentice, Deduct	-22.16	
01 22 20 00-0053	HR		Stone Mason.....	80.41	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	4.02	
			For Apprentice, Deduct	-16.08	
01 22 20 00-0054	HR		Structural Steel Worker.....	88.83	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	4.44	
			For Apprentice, Deduct	-17.77	
01 22 20 00-0055	HR		Tile Layer.....	72.88	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.64	
			For Apprentice, Deduct	-14.58	
01 22 20 00-0056	HR		Terrazzo Worker.....	81.14	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	4.06	
			For Apprentice, Deduct	-16.23	
01 22 20 00-0057	HR		Truck Driver, Light.....	64.17	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.21	
			For Apprentice, Deduct	-12.83	
01 22 20 00-0058	HR		Truck Driver, Heavy.....	64.58	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
			For Foreman, Add	3.23	
			For Apprentice, Deduct	-12.92	
01 22 20 00-0059	HR		Class I Diver.....	186.33	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0060	HR		Class III Diver Tender.....	110.99	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0061	HR		D1 Certified Welder.....	96.09	
			Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0062			Rates For Services (01 22 20)		
01 22 20 00-0063	HR		Watchman/Guard, Unarmed.....	23.47	
01 22 20 00-0064	HR		Watchman/Guard, Armed.....	26.52	
01 22 20 00-0065	HR		OSHA Testing.....	71.25	
01 22 20 00-0066	HR		Investigating Engineer Or Specialty Consultant.....	80.00	
			Note: For special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0067	HR		Investigating Senior Engineer Or Specialty Consultant.....	125.00	
			Note: For special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0068	HR		Surveyor.....	75.00	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0069 HR On-Site Certified Materials Testing Technician.....	57.00	
01 22 20 00-0070 HR Certified Industrial Hygienist	74.30	
01 22 20 00-0071 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0072 Rates For Traffic Control (01 22 20)		
01 22 20 00-0073 DAY Pilot Vehicle With Driver	735.87	
Note: Includes CB and radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0074 HR Flaggperson For Traffic Control	62.46	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Manlifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Manlifts (01 22 23 00-0002)		
01 22 23 00-0004 Engine Powered, Telescoping Boom Manlifts (01 22 23 00-0003)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005 DAY 40' Engine Powered, Telescoping Boom Manlift.....	509.05	
01 22 23 00-0006 WK 40' Engine Powered, Telescoping Boom Manlift.....	1,280.84	
01 22 23 00-0007 MO 40' Engine Powered, Telescoping Boom Manlift.....	2,873.68	
01 22 23 00-0008 DAY 60' Engine Powered, Telescoping Boom Manlift.....	747.16	
01 22 23 00-0009 WK 60' Engine Powered, Telescoping Boom Manlift.....	1,781.68	
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Manlift.....	3,899.99	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Manlift.....	1,453.26	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Manlift.....	3,522.30	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Manlift.....	7,389.45	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Manlift.....	2,069.05	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Manlift.....	4,982.13	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Manlift.....	12,414.28	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Manlift.....	2,520.62	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Manlift.....	6,428.82	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Manlift.....	14,614.69	
01 22 23 00-0020 Articulating (Up/Over) Boom Manlifts (01 22 23 00-0002)		
01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Manlifts (01 22 23 00-0020)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	340.42	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	854.15	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,054.91	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	433.26	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	946.99	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,350.77	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	557.06	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,287.42	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,878.12	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	971.75	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,290.12	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	5,569.31	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,887.80	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	4,456.44	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	10,893.52	
01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Manlifts (01 22 23 00-0020)		
Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Manlift	340.42	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Manlift	854.15	
01 22 23 00-0040 MO 30' Electric, Articulating (Up/Over) Boom Manlift	2,054.91	
01 22 23 00-0041 DAY 35' Electric, Articulating (Up/Over) Boom Manlift	340.42	
01 22 23 00-0042 WK 35' Electric, Articulating (Up/Over) Boom Manlift	854.15	
01 22 23 00-0043 MO 35' Electric, Articulating (Up/Over) Boom Manlift	2,054.91	
01 22 23 00-0044 DAY 40' Electric, Articulating (Up/Over) Boom Manlift	420.89	
01 22 23 00-0045 WK 40' Electric, Articulating (Up/Over) Boom Manlift	909.86	
01 22 23 00-0046 MO 40' Electric, Articulating (Up/Over) Boom Manlift	2,259.17	
01 22 23 00-0047 DAY 45' Electric, Articulating (Up/Over) Boom Manlift	420.89	
01 22 23 00-0048 WK 45' Electric, Articulating (Up/Over) Boom Manlift	909.86	
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Manlift	2,259.17	
01 22 23 00-0050 Platform Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0051 Electric, Scissor Platform Lifts (01 22 23 00-0050)		
Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift.....	171.88	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift.....	343.75	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift.....	703.12	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift.....	187.50	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift.....	375.00	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift.....	750.00	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift.....	242.19	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift.....	484.38	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift.....	1,039.06	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift.....	312.50	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift.....	617.19	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift.....	1,367.19	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift.....	335.94	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift.....	656.25	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift.....	1,484.38	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	437.50	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,085.94	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	3,023.44	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	351.56	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	687.50	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,679.69	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	359.38	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	820.31	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,796.88	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	398.44	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	914.06	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	2,031.25	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	421.88	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	984.38	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,421.88	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	789.06	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,734.38	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	4,265.62	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	138.46	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	392.29	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	792.28	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	192.30	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	407.68	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	799.97	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	323.06	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	784.58	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	2,292.22	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	346.14	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	861.50	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	2,592.20	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	184.61	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	369.22	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	738.43	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	184.61	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	369.22	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	767.66	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 48' Bucket Truck With Full-Time Operator.....	985.37	
For Equipment Without Operator, Deduct	-516.65	
01 22 23 00-0107 WK 48' Bucket Truck With Full-Time Operator.....	4,257.24	
For Equipment Without Operator, Deduct	-2,583.24	
01 22 23 00-0108 MO 48' Bucket Truck With Full-Time Operator.....	15,933.47	
For Equipment Without Operator, Deduct	-11,134.67	
01 22 23 00-0109 Air Equipment (01 22 23)		
01 22 23 00-0110 Air Compressors (01 22 23 00-0109)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0111 DAY 100 CFM Diesel Powered Portable Air Compressor.....	167.01	
01 22 23 00-0112 WK 100 CFM Diesel Powered Portable Air Compressor.....	501.03	
01 22 23 00-0113 MO 100 CFM Diesel Powered Portable Air Compressor.....	1,391.75	

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01 22 23 00-0114	DAY	130 CFM Diesel Powered Portable Air Compressor	200.41	
01 22 23 00-0115	WK	130 CFM Diesel Powered Portable Air Compressor	590.10	
01 22 23 00-0116	MO	130 CFM Diesel Powered Portable Air Compressor	1,670.10	
01 22 23 00-0117	DAY	185 CFM Diesel Powered Portable Air Compressor	267.22	
01 22 23 00-0118	WK	185 CFM Diesel Powered Portable Air Compressor	601.24	
01 22 23 00-0119	MO	185 CFM Diesel Powered Portable Air Compressor	1,324.95	
01 22 23 00-0120	DAY	375 CFM Diesel Powered Portable Air Compressor	378.56	
01 22 23 00-0121	WK	375 CFM Diesel Powered Portable Air Compressor	957.52	
01 22 23 00-0122	MO	375 CFM Diesel Powered Portable Air Compressor	2,282.47	
01 22 23 00-0123	DAY	600 CFM Diesel Powered Portable Air Compressor	841.73	
01 22 23 00-0124	WK	600 CFM Diesel Powered Portable Air Compressor	2,026.39	
01 22 23 00-0125	MO	600 CFM Diesel Powered Portable Air Compressor	5,050.38	
01 22 23 00-0126	DAY	750 CFM Diesel Powered Portable Air Compressor	1,013.19	
01 22 23 00-0127	WK	750 CFM Diesel Powered Portable Air Compressor	2,494.02	
01 22 23 00-0128	MO	750 CFM Diesel Powered Portable Air Compressor	6,123.70	
01 22 23 00-0129	DAY	825 CFM Diesel Powered Portable Air Compressor	1,013.19	
01 22 23 00-0130	WK	825 CFM Diesel Powered Portable Air Compressor	2,494.02	
01 22 23 00-0131	MO	825 CFM Diesel Powered Portable Air Compressor	6,123.70	
01 22 23 00-0132	DAY	1,300 CFM Diesel Powered Portable Air Compressor	1,180.20	
01 22 23 00-0133	WK	1,300 CFM Diesel Powered Portable Air Compressor	2,645.44	
01 22 23 00-0134	MO	1,300 CFM Diesel Powered Portable Air Compressor	7,054.50	
01 22 23 00-0135	DAY	1,600 CFM Diesel Powered Portable Air Compressor	1,469.69	
01 22 23 00-0136	WK	1,600 CFM Diesel Powered Portable Air Compressor	3,306.80	
01 22 23 00-0137	MO	1,600 CFM Diesel Powered Portable Air Compressor	8,818.13	
01 22 23 00-0138		Negative Air Machines (01 22 23 00-0109) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0139	DAY	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	56.00	
01 22 23 00-0140	WK	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	230.00	
01 22 23 00-0141	MO	Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter	695.00	
01 22 23 00-0142	EA	Replacement HEPA Filter, 99.99% Efficient @ 0.3 Micron For Negative Air Machine..... Note: Required if over 800 hours operation.	200.94	
01 22 23 00-0143	LF	Discharge Flexible Duct For Negative Air Machine.....	1.28	
01 22 23 00-0144		Portable Air Scrubbers (01 22 23 00-0109) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0145	DAY	200 to 1,000 CFM Portable Air Scrubber	83.00	
01 22 23 00-0146	WK	200 to 1,000 CFM Portable Air Scrubber	345.00	
01 22 23 00-0147	MO	200 to 1,000 CFM Portable Air Scrubber	955.00	
01 22 23 00-0148	DAY	>1,000 to 2,000 CFM Portable Air Scrubber	105.00	
01 22 23 00-0149	WK	>1,000 to 2,000 CFM Portable Air Scrubber	435.00	
01 22 23 00-0150	MO	>1,000 to 2,000 CFM Portable Air Scrubber	1,275.00	
01 22 23 00-0151		Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0152		Pavers And Rollers (01 22 23 00-0151) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0153		Pavers (01 22 23 00-0152)		
01 22 23 00-0154	DAY	10' Wide Paving Machine With Full-Time Operator	2,621.91	
		For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0155	WK	10' Wide Paving Machine With Full-Time Operator	9,146.43	
		For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0156	MO	10' Wide Paving Machine With Full-Time Operator	32,091.94	
		For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0157		Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0152)		
01 22 23 00-0158	DAY	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,098.11	
		For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0159	WK	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	4,586.25	
		For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0160	MO	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	17,558.99	
		For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0161	DAY	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,274.79	
		For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0162	WK	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	5,900.13	
		For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0163	MO	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	19,542.64	
		For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0164	DAY	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,282.82	
		For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0165	WK	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	5,378.11	
		For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0166	MO	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	19,928.13	
		For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0167		Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0152)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0168 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,170.39 -640.34	
01 22 23 00-0169 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,671.38 -3,201.71	
01 22 23 00-0170 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,048.88 -13,800.48	
01 22 23 00-0171 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,507.69 -640.34	
01 22 23 00-0172 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,354.02 -3,201.71	
01 22 23 00-0173 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,201.19 -13,800.48	
01 22 23 00-0174 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,588.00 -640.34	
01 22 23 00-0175 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,859.97 -3,201.71	
01 22 23 00-0176 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,614.64 -13,800.48	
01 22 23 00-0177 Towed, Padfoot Rollers (01 22 23 00-0152)		
01 22 23 00-0178 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	152.59	
01 22 23 00-0179 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	441.70	
01 22 23 00-0180 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,301.02	
01 22 23 00-0181 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	192.74	
01 22 23 00-0182 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	538.08	
01 22 23 00-0183 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	2,288.84	
01 22 23 00-0184 Static Rollers (01 22 23 00-0152)		
01 22 23 00-0185 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,210.54 -640.34	
01 22 23 00-0186 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,016.72 -3,201.71	
01 22 23 00-0187 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,181.25 -13,800.48	
01 22 23 00-0188 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,387.22 -640.34	
01 22 23 00-0189 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,498.58 -3,201.71	
01 22 23 00-0190 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,514.40 -13,800.48	
01 22 23 00-0191 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0152)		
01 22 23 00-0192 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,154.32 -640.34	
01 22 23 00-0193 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,719.57 -3,201.71	
01 22 23 00-0194 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,815.98 -13,800.48	
01 22 23 00-0195 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,258.73 -640.34	
01 22 23 00-0196 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,024.75 -3,201.71	
01 22 23 00-0197 MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,611.05 -13,800.48	
01 22 23 00-0198 DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,467.53 -640.34	
01 22 23 00-0199 WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,635.10 -3,201.71	
01 22 23 00-0200 MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,225.28 -13,800.48	
01 22 23 00-0201 Steel Plates (01 22 23 00-0151)		
Note: 3 day minimum.		
01 22 23 00-0202 DAY 1" x 4' x 8' Steel Plate	18.75	
01 22 23 00-0203 WK 1" x 4' x 8' Steel Plate	44.27	
01 22 23 00-0204 MO 1" x 4' x 8' Steel Plate	58.26	
01 22 23 00-0205 DAY 1" x 4' x 10' Steel Plate	25.00	
01 22 23 00-0206 WK 1" x 4' x 10' Steel Plate	56.25	
01 22 23 00-0207 MO 1" x 4' x 10' Steel Plate	68.75	
01 22 23 00-0208 DAY 1" x 5' x 10' Steel Plate	26.04	
01 22 23 00-0209 WK 1" x 5' x 10' Steel Plate	58.85	
01 22 23 00-0210 MO 1" x 5' x 10' Steel Plate	156.24	
01 22 23 00-0211 DAY 1" x 6' x 8' Steel Plate	16.67	
01 22 23 00-0212 WK 1" x 6' x 8' Steel Plate	37.50	
01 22 23 00-0213 MO 1" x 6' x 8' Steel Plate	99.99	
01 22 23 00-0214 DAY 1" x 6' x 10' Steel Plate	31.25	
01 22 23 00-0215 WK 1" x 6' x 10' Steel Plate	41.14	
01 22 23 00-0216 MO 1" x 6' x 10' Steel Plate	109.89	

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01 22 23 00-0217	DAY	1" x 6' x 12' Steel Plate	43.75	
01 22 23 00-0218	WK	1" x 6' x 12' Steel Plate	55.99	
01 22 23 00-0219	MO	1" x 6' x 12' Steel Plate	151.55	
01 22 23 00-0220	DAY	1" x 8' x 10' Steel Plate	27.60	
01 22 23 00-0221	WK	1" x 8' x 10' Steel Plate	61.98	
01 22 23 00-0222	MO	1" x 8' x 10' Steel Plate	165.09	
01 22 23 00-0223	DAY	1" x 8' x 12' Steel Plate	50.00	
01 22 23 00-0224	WK	1" x 8' x 12' Steel Plate	61.98	
01 22 23 00-0225	MO	1" x 8' x 12' Steel Plate	299.98	
01 22 23 00-0226	DAY	1" x 8' x 16' Steel Plate	66.66	
01 22 23 00-0227	WK	1" x 8' x 16' Steel Plate	149.99	
01 22 23 00-0228	MO	1" x 8' x 16' Steel Plate	399.97	
01 22 23 00-0229	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	1.72	0.88
01 22 23 00-0230	EA	Remove And Reset Trench Plate.....	23.28	
01 22 23 00-0231 Street Sweepers (01 22 23 00-0151)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0232	DAY	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	864.32	
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0233	WK	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	3,718.81	
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0234	MO	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	15,216.70	
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0235	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	1,052.27	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0236	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	5,065.20	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0237	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	20,776.77	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0238 Earthmoving Equipment (01 22 23)				
01 22 23 00-0239 Skid-Steer Loaders (Bobcat) (01 22 23 00-0238)				
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.				
01 22 23 00-0240	DAY	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	881.88	
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0241	WK	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	3,741.79	
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0242	MO	700 LB Capacity, 36" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	14,726.63	
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0243	DAY	1,500 LB Capacity, 60" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	955.93	
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0244	WK	1,500 LB Capacity, 60" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	3,875.78	
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0245	MO	1,500 LB Capacity, 60" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	15,020.48	
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0246	DAY	2,400 LB Capacity, 72" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	977.09	
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0247	WK	2,400 LB Capacity, 72" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	4,068.55	
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0248	MO	2,400 LB Capacity, 72" Wide, Skid-Steer Loader (Bobcat) With Full-Time Operator	15,531.78	
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0249	DAY	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader (Bobcat) With Full-Time Operator	1,059.37	
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0250	WK	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader (Bobcat) With Full-Time Operator	4,338.89	
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0251	MO	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader (Bobcat) With Full-Time Operator	16,425.09	
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0252	DAY	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader (Bobcat) With Full-Time Operator	1,200.41	
		For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0253	WK	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader (Bobcat) With Full-Time Operator	4,873.70	
		For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0254	MO	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader (Bobcat) With Full-Time Operator	17,741.54	
		For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0255	DAY	Hydraulic Hammer Attachment For Skid-Steer Loaders	235.08	
01 22 23 00-0256	WK	Hydraulic Hammer Attachment For Skid-Steer Loaders	781.64	
01 22 23 00-0257	MO	Hydraulic Hammer Attachment For Skid-Steer Loaders	2,080.46	
01 22 23 00-0258	DAY	Forklift Attachment For Skid-Steer Loaders	50.54	
01 22 23 00-0259	WK	Forklift Attachment For Skid-Steer Loaders	135.17	
01 22 23 00-0260	MO	Forklift Attachment For Skid-Steer Loaders	382.00	
01 22 23 00-0261	DAY	Backhoe Attachment For Skid-Steer Loaders.....	111.66	
01 22 23 00-0262	WK	Backhoe Attachment For Skid-Steer Loaders.....	267.99	
01 22 23 00-0263	MO	Backhoe Attachment For Skid-Steer Loaders.....	666.45	
01 22 23 00-0264	DAY	Broom Attachment For Skid-Steer Loaders	110.49	
01 22 23 00-0265	WK	Broom Attachment For Skid-Steer Loaders	299.73	
01 22 23 00-0266	MO	Broom Attachment For Skid-Steer Loaders	793.40	
01 22 23 00-0267	DAY	9", 12", Or 16" Auger Attachment For Skid-Steer Loaders.....	74.05	



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01 22 23 00-0268	WK		9", 12", Or 16" Auger Attachment For Skid-Steer Loaders	235.08	
01 22 23 00-0269	MO		9", 12", Or 16" Auger Attachment For Skid-Steer Loaders	558.32	
01 22 23 00-0270 Bulldozers (01 22 23 00-0238)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0271	DAY		70 HP, D3 Bulldozer With Full-Time Operator	1,033.12	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0272	WK		70 HP, D3 Bulldozer With Full-Time Operator	4,750.61	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0273	MO		70 HP, D3 Bulldozer With Full-Time Operator	18,395.30	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0274	DAY		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,218.40	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0275	WK		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	5,499.12	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0276	MO		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	20,692.71	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0277	DAY		140 HP, D6 Bulldozer With Full-Time Operator	1,744.58	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0278	WK		140 HP, D6 Bulldozer With Full-Time Operator	7,603.84	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0279	MO		140 HP, D6 Bulldozer With Full-Time Operator	26,992.06	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0280	DAY		200 HP, D7 Bulldozer With Full-Time Operator	2,211.47	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0281	WK		200 HP, D7 Bulldozer With Full-Time Operator	9,478.83	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0282	MO		200 HP, D7 Bulldozer With Full-Time Operator	32,624.42	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0283	DAY		335 HP, D8 Bulldozer With Full-Time Operator	2,767.30	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0284	WK		335 HP, D8 Bulldozer With Full-Time Operator	11,702.13	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0285	MO		335 HP, D8 Bulldozer With Full-Time Operator	39,294.32	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0286	DAY		460 HP, D9 Bulldozer With Full-Time Operator	3,078.56	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0287	WK		460 HP, D9 Bulldozer With Full-Time Operator	12,939.76	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0288	MO		460 HP, D9 Bulldozer With Full-Time Operator	42,999.82	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0289 Motor Scraper (01 22 23 00-0238)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0290	DAY		11 CY Motor Scraper-Hauler With Full-Time Operator	1,966.90	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0291	WK		11 CY Motor Scraper-Hauler With Full-Time Operator	8,507.93	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0292	MO		11 CY Motor Scraper-Hauler With Full-Time Operator	29,700.98	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0293	DAY		18 CY Motor Scraper-Hauler With Full-Time Operator	2,502.97	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0294	WK		18 CY Motor Scraper-Hauler With Full-Time Operator	10,652.23	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0295	MO		18 CY Motor Scraper-Hauler With Full-Time Operator	36,152.04	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0296	DAY		24 CY Motor Scraper-Hauler With Full-Time Operator	3,020.87	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0297	WK		24 CY Motor Scraper-Hauler With Full-Time Operator	12,714.75	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0298	MO		24 CY Motor Scraper-Hauler With Full-Time Operator	42,330.52	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0299 Hydraulic Excavators (01 22 23 00-0238)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0300	DAY		3/8 CY Hydraulic Excavator With Full-Time Operator	1,052.09	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0301	WK		3/8 CY Hydraulic Excavator With Full-Time Operator	4,658.09	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0302	MO		3/8 CY Hydraulic Excavator With Full-Time Operator	18,680.48	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0303	DAY		1/2 CY Hydraulic Excavator With Full-Time Operator	1,167.99	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0304	WK		1/2 CY Hydraulic Excavator With Full-Time Operator	5,168.96	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0305	MO		1/2 CY Hydraulic Excavator With Full-Time Operator	20,723.98	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0306	DAY		5/8 CY Hydraulic Excavator With Full-Time Operator	1,204.59	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0307	WK		5/8 CY Hydraulic Excavator With Full-Time Operator	5,359.59	
			For Equipment Without Operator, Deduct	-3,201.71	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0308 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	21,059.48	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0309 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,242.72	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0310 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	5,534.96	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0311 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	21,394.98	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0312 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,273.22	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0313 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	5,717.96	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0314 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	21,730.48	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0315 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,684.96	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0316 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,357.33	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0317 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	26,267.36	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0318 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,745.96	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0319 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	7,624.21	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0320 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	27,067.98	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0321 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	1,860.34	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0322 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	8,081.71	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0323 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	28,440.48	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0324 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	1,989.96	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0325 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	8,592.59	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0326 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	29,965.48	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0327 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	2,028.09	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0328 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	8,745.09	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0329 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	30,422.98	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0330 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	2,394.09	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0331 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	10,216.71	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0332 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	34,845.48	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0333 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	2,920.22	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0334 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	12,305.96	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0335 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	41,097.98	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0336 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	106.75	
01 22 23 00-0337 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	411.75	
01 22 23 00-0338 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,220.00	
01 22 23 00-0339 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	472.75	
01 22 23 00-0340 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,250.50	
01 22 23 00-0341 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	3,499.88	
01 22 23 00-0342 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	732.00	
01 22 23 00-0343 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,868.12	
01 22 23 00-0344 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	4,857.12	
01 22 23 00-0345 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,021.75	
01 22 23 00-0346 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	2,752.62	
01 22 23 00-0347 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	7,716.50	
01 22 23 00-0348 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	213.50	
01 22 23 00-0349 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	854.00	
01 22 23 00-0350 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,562.00	
01 22 23 00-0351 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	305.00	
01 22 23 00-0352 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,220.00	
01 22 23 00-0353 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,660.00	
01 22 23 00-0354 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	335.50	
01 22 23 00-0355 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,326.75	
01 22 23 00-0356 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,965.00	

01 22 23 00-0357 Mini-Excavators (01 22 23 00-0238)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0358 DAY 2,000 LB Mini-Excavator With Full-Time Operator (Bobcat 316)	960.59	
For Equipment Without Operator, Deduct	-640.34	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0359	WK		2,000 LB Mini-Excavator With Full-Time Operator (Bobcat 316)	4,109.09	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0360	MO		2,000 LB Mini-Excavator With Full-Time Operator (Bobcat 316)	15,798.23	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0361	DAY		3,500 LB Mini-Excavator With Full-Time Operator (Bobcat 322 Or 323)	968.22	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0362	WK		3,500 LB Mini-Excavator With Full-Time Operator (Bobcat 322 Or 323)	4,131.96	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0363	MO		3,500 LB Mini-Excavator With Full-Time Operator (Bobcat 322 Or 323)	16,278.60	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0364	DAY		6,000 LB Mini-Excavator With Full-Time Operator (Bobcat 325 Or 328)	1,006.34	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0365	WK		6,000 LB Mini-Excavator With Full-Time Operator (Bobcat 325 Or 328)	4,238.71	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0366	MO		6,000 LB Mini-Excavator With Full-Time Operator (Bobcat 325 Or 328)	16,347.23	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0367	DAY		7,500 LB Mini-Excavator With Full-Time Operator (Bobcat 329, 331 Or 334)	1,021.59	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0368	WK		7,500 LB Mini-Excavator With Full-Time Operator (Bobcat 329, 331 Or 334)	4,292.09	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0369	MO		7,500 LB Mini-Excavator With Full-Time Operator (Bobcat 329, 331 Or 334)	16,377.73	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0370	DAY		9,500 LB Mini-Excavator With Full-Time Operator (Bobcat 335)	1,113.09	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0371	WK		9,500 LB Mini-Excavator With Full-Time Operator (Bobcat 335)	4,368.33	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0372	MO		9,500 LB Mini-Excavator With Full-Time Operator (Bobcat 335)	17,262.23	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0373	DAY		11,000 LB Mini-Excavator With Full-Time Operator (Bobcat 337)	1,120.72	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0374	WK		11,000 LB Mini-Excavator With Full-Time Operator (Bobcat 337)	4,749.59	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0375	MO		11,000 LB Mini-Excavator With Full-Time Operator (Bobcat 337)	17,300.36	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0376 Road Graders (01 22 23 00-0238)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0377	DAY		60 HP Road Grader With Full-Time Operator	1,391.57	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0378	WK		60 HP Road Grader With Full-Time Operator	5,233.88	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0379	MO		60 HP Road Grader With Full-Time Operator	19,877.74	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0380	DAY		80 HP Road Grader With Full-Time Operator	1,613.09	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0381	WK		80 HP Road Grader With Full-Time Operator	5,850.28	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0382	MO		80 HP Road Grader With Full-Time Operator	21,746.19	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0383	DAY		130 HP Road Grader With Full-Time Operator	1,767.00	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0384	WK		130 HP Road Grader With Full-Time Operator	6,536.27	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0385	MO		130 HP Road Grader With Full-Time Operator	23,795.08	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0386 Loader-Backhoes With Standard Bucket (01 22 23 00-0238)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0387	DAY		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	1,173.66	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0388	WK		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	4,468.34	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0389	MO		1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator	16,781.34	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0390	DAY		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	1,230.80	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0391	WK		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	4,668.33	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0392	MO		1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator	18,000.34	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0393	DAY		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	1,318.89	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0394	WK		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	4,887.37	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0395	MO		1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator	18,628.89	
			For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0396	DAY		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	1,711.73	
			For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0397	WK		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	6,058.76	
			For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0398	MO		1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator	21,981.17	
			For Equipment Without Operator, Deduct	-13,800.48	

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01 22 23 00-0399 Heavy Duty Construction Loaders (01 22 23 00-0238) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0400 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	1,116.86	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0401 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	5,085.78	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0402 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator	19,445.35	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0403 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	1,512.73	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0404 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	5,518.31	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0405 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator	19,665.28	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0406 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	1,600.70	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0407 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	5,752.90	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0408 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator	20,251.76	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0409 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	1,842.62	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0410 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	11,265.81	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0411 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator	21,864.58	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0412 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	2,465.76	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0413 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	10,488.72	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0414 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator	35,646.86	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0415 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	6,571.05	
For Equipment Without Operator, Deduct	-640.34	
01 22 23 00-0416 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	22,460.04	
For Equipment Without Operator, Deduct	-3,201.71	
01 22 23 00-0417 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator	66,284.65	
For Equipment Without Operator, Deduct	-13,800.48	
01 22 23 00-0418 Shoring (01 22 23 00-0238) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0419 Aluminum Hydraulic Shoring (01 22 23 00-0418) Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0420 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	30.17	
Note: Up to 88" spread width.		
01 22 23 00-0421 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	88.99	
Note: Up to 88" spread width.		
01 22 23 00-0422 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring.....	40.47	
Note: Up to 88" spread width.		
01 22 23 00-0423 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring.....	119.38	
Note: Up to 88" spread width.		
01 22 23 00-0424 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring.....	75.05	
Note: Up to 88" spread width.		
01 22 23 00-0425 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring.....	221.40	
Note: Up to 88" spread width.		
01 22 23 00-0426 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	22.55	
01 22 23 00-0427 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	36.08	
01 22 23 00-0428 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	60.13	
01 22 23 00-0429 Trench Boxes/Trench Shields (01 22 23 00-0238) Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0430 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	152.54	
01 22 23 00-0431 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	457.61	
01 22 23 00-0432 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	172.22	
01 22 23 00-0433 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	516.65	
01 22 23 00-0434 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	182.06	
01 22 23 00-0435 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	546.18	
01 22 23 00-0436 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	167.30	
01 22 23 00-0437 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	501.89	
01 22 23 00-0438 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	196.82	
01 22 23 00-0439 MO 6' x 8' Trench Box With Up To 48" Spreaders.....	590.46	
01 22 23 00-0440 WK 8' x 8' Trench Box With Up To 48" Spreaders.....	221.42	
01 22 23 00-0441 MO 8' x 8' Trench Box With Up To 48" Spreaders.....	664.27	
01 22 23 00-0442 WK 4' x 10' Trench Box With Up To 48" Spreaders.....	186.98	
01 22 23 00-0443 MO 4' x 10' Trench Box With Up To 48" Spreaders.....	560.94	
01 22 23 00-0444 WK 6' x 10' Trench Box With Up To 48" Spreaders.....	221.42	
01 22 23 00-0445 MO 6' x 10' Trench Box With Up To 48" Spreaders.....	664.27	
01 22 23 00-0446 WK 8' x 10' Trench Box With Up To 48" Spreaders.....	270.63	



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01 22 23 00-0447	MO	8' x 10' Trench Box With Up To 48" Spreaders	806.96		
01 22 23 00-0448	WK	4' x 12' Trench Box With Up To 48" Spreaders	221.42		
01 22 23 00-0449	MO	4' x 12' Trench Box With Up To 48" Spreaders	664.27		
01 22 23 00-0450	WK	6' x 12' Trench Box With Up To 48" Spreaders	270.63		
01 22 23 00-0451	MO	6' x 12' Trench Box With Up To 48" Spreaders	811.88		
01 22 23 00-0452	WK	8' x 12' Trench Box With Up To 48" Spreaders	344.44		
01 22 23 00-0453	MO	8' x 12' Trench Box With Up To 48" Spreaders	1,033.30		
01 22 23 00-0454	WK	4' x 14' Trench Box With Up To 48" Spreaders	246.02		
01 22 23 00-0455	MO	4' x 14' Trench Box With Up To 48" Spreaders	738.08		
01 22 23 00-0456	WK	6' x 14' Trench Box With Up To 48" Spreaders	319.83		
01 22 23 00-0457	MO	6' x 14' Trench Box With Up To 48" Spreaders	959.50		
01 22 23 00-0458	WK	8' x 14' Trench Box With Up To 48" Spreaders	393.64		
01 22 23 00-0459	MO	8' x 14' Trench Box With Up To 48" Spreaders	1,180.92		
01 22 23 00-0460	WK	4' x 16' Trench Box With Up To 48" Spreaders	270.63		
01 22 23 00-0461	MO	4' x 16' Trench Box With Up To 48" Spreaders	811.88		
01 22 23 00-0462	WK	6' x 16' Trench Box With Up To 48" Spreaders	369.04		
01 22 23 00-0463	MO	6' x 16' Trench Box With Up To 48" Spreaders	1,107.11		
01 22 23 00-0464	WK	8' x 16' Trench Box With Up To 48" Spreaders	442.84		
01 22 23 00-0465	MO	8' x 16' Trench Box With Up To 48" Spreaders	1,328.54		
01 22 23 00-0466	WK	4' x 20' Trench Box With Up To 48" Spreaders	319.83		
01 22 23 00-0467	MO	4' x 20' Trench Box With Up To 48" Spreaders	959.50		
01 22 23 00-0468	WK	6' x 20' Trench Box With Up To 48" Spreaders	442.84		
01 22 23 00-0469	MO	6' x 20' Trench Box With Up To 48" Spreaders	1,328.54		
01 22 23 00-0470	WK	8' x 20' Trench Box With Up To 48" Spreaders	516.65		
01 22 23 00-0471	MO	8' x 20' Trench Box With Up To 48" Spreaders	1,549.96		
01 22 23 00-0472	WK	4' x 24' Trench Box With Up To 48" Spreaders	442.84		
01 22 23 00-0473	MO	4' x 24' Trench Box With Up To 48" Spreaders	1,328.54		
01 22 23 00-0474	WK	6' x 24' Trench Box With Up To 48" Spreaders	541.26		
01 22 23 00-0475	MO	6' x 24' Trench Box With Up To 48" Spreaders	1,623.76		
01 22 23 00-0476	WK	8' x 24' Trench Box With Up To 48" Spreaders	590.46		
01 22 23 00-0477	MO	8' x 24' Trench Box With Up To 48" Spreaders	1,771.38		
01 22 23 00-0478	WK	For Spreaders >48" To 84", Add	14.76		
01 22 23 00-0479	MO	For Spreaders >48" To 84", Add	44.28		
01 22 23 00-0480	WK	For Spreaders >84" To 120", Add	88.57		
01 22 23 00-0481	MO	For Spreaders >84" To 120", Add	265.71		
01 22 23 00-0482	WK	For Spreaders >120", Add	186.98		
01 22 23 00-0483	MO	For Spreaders >120", Add	560.94		
01 22 23 00-0484	WK	8' x 4' Manhole Box	232.49		
01 22 23 00-0485	MO	8' x 4' Manhole Box	697.48		
01 22 23 00-0486	WK	8' x 8' Manhole Box	332.13		
01 22 23 00-0487	MO	8' x 8' Manhole Box	996.40		
01 22 23 00-0488 Trenchers (01 22 23 00-0238)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0489	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,021.14		
		For Equipment Without Operator, Deduct	-640.34		
01 22 23 00-0490	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	4,498.81		
		For Equipment Without Operator, Deduct	-3,201.71		
01 22 23 00-0491	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	17,370.48		
		For Equipment Without Operator, Deduct	-13,800.48		
01 22 23 00-0492	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,663.74		
		For Equipment Without Operator, Deduct	-640.34		
01 22 23 00-0493	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	6,664.61		
		For Equipment Without Operator, Deduct	-3,201.71		
01 22 23 00-0494	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	23,320.48		
		For Equipment Without Operator, Deduct	-13,800.48		
01 22 23 00-0495 Heavy Equipment Mats (01 22 23 00-0238)					
Note: Rental price per mat. Excludes mobilization and demobilization. See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.					
01 22 23 00-0496	Day	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	20.00		
01 22 23 00-0497	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	47.62		
01 22 23 00-0498	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	100.00		
01 22 23 00-0499	Day	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	21.00		
01 22 23 00-0500	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	50.00		
01 22 23 00-0501	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	105.00		
01 22 23 00-0502	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	17.00		
01 22 23 00-0503	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	40.00		
01 22 23 00-0504	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	85.00		
01 22 23 00-0505	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	19.00		
01 22 23 00-0506	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	45.00		
01 22 23 00-0507	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	95.00		
01 22 23 00-0508	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	21.00		
01 22 23 00-0509	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	50.00		
01 22 23 00-0510	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	105.00		
01 22 23 00-0511	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	23.00		
01 22 23 00-0512	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	54.76		
01 22 23 00-0513	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	115.00		
01 22 23 00-0514	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	18.00		
01 22 23 00-0515	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	50.00		

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01 22 23 00-0516	MO		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	90.00	
01 22 23 00-0517	Day		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	21.00	
01 22 23 00-0518	WK		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	50.00	
01 22 23 00-0519	MO		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	105.00	
01 22 23 00-0520	Day		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	25.00	
01 22 23 00-0521	WK		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	55.00	
01 22 23 00-0522	MO		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	125.00	
01 22 23 00-0523	Day		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	27.00	
01 22 23 00-0524	WK		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	64.29	
01 22 23 00-0525	MO		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	135.00	
01 22 23 00-0526	Day		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	29.00	
01 22 23 00-0527	WK		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	69.05	
01 22 23 00-0528	MO		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	145.00	
01 22 23 00-0529	Day		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	30.00	
01 22 23 00-0530	WK		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	71.43	
01 22 23 00-0531	MO		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	150.00	
01 22 23 00-0532	Day		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	9.62	
01 22 23 00-0533	WK		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	24.05	
01 22 23 00-0534	MO		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	72.15	
01 22 23 00-0535	Day		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	11.50	
01 22 23 00-0536	WK		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	28.75	
01 22 23 00-0537	MO		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	86.25	
01 22 23 00-0538	Day		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	13.13	
01 22 23 00-0539	WK		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	32.83	
01 22 23 00-0540	MO		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	98.50	
01 22 23 00-0541	Day		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.00	
01 22 23 00-0542	WK		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	35.00	
01 22 23 00-0543	MO		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	105.00	
01 22 23 00-0544	Day		16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	16.00	
01 22 23 00-0545	WK		16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	40.00	
01 22 23 00-0546	MO		16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	120.00	
01 22 23 00-0547	Day		16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	18.39	
01 22 23 00-0548	WK		16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	45.97	
01 22 23 00-0549	MO		16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	137.90	
01 22 23 00-0550	Day		24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.15	
01 22 23 00-0551	WK		24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	35.37	
01 22 23 00-0552	MO		24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	106.10	
01 22 23 00-0553	Day		30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.15	
01 22 23 00-0554	WK		30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	47.88	
01 22 23 00-0555	MO		30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	143.65	
01 22 23 00-0556	Day		24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	16.56	
01 22 23 00-0557	WK		24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	41.40	
01 22 23 00-0558	MO		24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	124.20	
01 22 23 00-0559	Day		40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	27.62	
01 22 23 00-0560	WK		40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	69.05	
01 22 23 00-0561	MO		40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	207.14	
01 22 23 00-0562	Day		40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	29.44	
01 22 23 00-0563	WK		40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	73.60	
01 22 23 00-0564	MO		40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	220.80	
01 22 23 00-0565			Electrical Equipment (01 22 23)		
01 22 23 00-0566			Tripod Mounted Floodlights (01 22 23 00-0565)		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0567	DAY		500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	58.89	
01 22 23 00-0568	WK		500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	139.32	
01 22 23 00-0569	MO		500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	294.44	
01 22 23 00-0570	DAY		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	58.89	
01 22 23 00-0571	WK		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	172.36	
01 22 23 00-0572	MO		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	509.89	
01 22 23 00-0573	DAY		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	66.07	
01 22 23 00-0574	WK		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	179.54	
01 22 23 00-0575	MO		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	438.07	
01 22 23 00-0576			Trailer Mounted Floodlights (01 22 23 00-0565)		
			Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0577	DAY		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	165.17	
01 22 23 00-0578	WK		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	366.26	
01 22 23 00-0579	MO		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	789.96	
01 22 23 00-0580			Generator Sets (01 22 23 00-0565)		
01 22 23 00-0581			Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0580)		
			Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0664 for reimbursable fuel fees.		
01 22 23 00-0582	DAY		3.6 KW, 8 HP Gas Powered Generator Set	52.27	
			For LP Or NG Gas, Add	6.53	
01 22 23 00-0583	WK		3.6 KW, 8 HP Gas Powered Generator Set	188.42	
			For LP Or NG Gas, Add	23.55	



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01 22 23 00-0584 MO 3.6 KW, 8 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	522.71 65.34	
01 22 23 00-0585 DAY 5 KW, 11 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	74.15 9.27	
01 22 23 00-0586 WK 5 KW, 11 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	237.04 29.63	
01 22 23 00-0587 MO 5 KW, 11 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	540.94 67.62	
01 22 23 00-0588 DAY 6.5 KW, 13 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	94.82 11.85	
01 22 23 00-0589 WK 6.5 KW, 13 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	255.28 31.91	
01 22 23 00-0590 MO 6.5 KW, 13 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	705.05 88.13	
01 22 23 00-0591 DAY 10 KW, 18 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	105.76 13.22	
01 22 23 00-0592 WK 10 KW, 18 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	285.67 35.71	
01 22 23 00-0593 MO 10 KW, 18 HP Gas Powered Generator Set..... For LP Or NG Gas, Add	820.53 102.57	
01 22 23 00-0594 Towable, Diesel Powered Generator Sets (01 22 23 00-0580)		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0664 for reimbursable fuel fees.		
01 22 23 00-0595 DAY 20 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 1.7 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 1.0 gallons per hour.	217.59	
01 22 23 00-0596 WK 20 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 1.7 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 1.0 gallons per hour.	568.90	
01 22 23 00-0597 MO 20 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 1.7 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 1.0 gallons per hour.	1,549.89	
01 22 23 00-0598 DAY 40.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 3.1 gallons per hour, 75% load - 2.3 gallons per hour, 50% load - 1.7 gallons per hour.	341.81	
01 22 23 00-0599 WK 40.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 3.1 gallons per hour, 75% load - 2.3 gallons per hour, 50% load - 1.7 gallons per hour.	769.89	
01 22 23 00-0600 MO 40.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 3.1 gallons per hour, 75% load - 2.3 gallons per hour, 50% load - 1.7 gallons per hour.	2,050.88	
01 22 23 00-0601 DAY 70.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 6.25 gallons per hour, 75% load - 10.0 gallons per hour, 50% load - 3.8 gallons per hour.	447.61	
01 22 23 00-0602 WK 70.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 6.25 gallons per hour, 75% load - 10.0 gallons per hour, 50% load - 3.8 gallons per hour.	1,003.74	
01 22 23 00-0603 MO 70.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 6.25 gallons per hour, 75% load - 10.0 gallons per hour, 50% load - 3.8 gallons per hour.	2,787.40	
01 22 23 00-0604 DAY 100.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 7.9 gallons per hour, 75% load - 5.9 gallons per hour, 50% load - 4.2 gallons per hour.	562.91	
01 22 23 00-0605 WK 100.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 7.9 gallons per hour, 75% load - 5.9 gallons per hour, 50% load - 4.2 gallons per hour.	1,241.11	
01 22 23 00-0606 MO 100.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 7.9 gallons per hour, 75% load - 5.9 gallons per hour, 50% load - 4.2 gallons per hour.	3,533.42	
01 22 23 00-0607 DAY 120.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.7 gallons per hour, 75% load - 8.3 gallons per hour, 50% load - 6.5 gallons per hour.	579.86	
01 22 23 00-0608 WK 120.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.7 gallons per hour, 75% load - 8.3 gallons per hour, 50% load - 6.5 gallons per hour.	1,336.05	
01 22 23 00-0609 MO 120.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.7 gallons per hour, 75% load - 8.3 gallons per hour, 50% load - 6.5 gallons per hour.	4,116.67	
01 22 23 00-0610 DAY 150.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.7 gallons per hour, 75% load - 8.3 gallons per hour, 50% load - 6.5 gallons per hour.	596.82	
01 22 23 00-0611 WK 150.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.7 gallons per hour, 75% load - 8.3 gallons per hour, 50% load - 6.5 gallons per hour.	1,424.22	
01 22 23 00-0612 MO 150.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 10.7 gallons per hour, 75% load - 8.3 gallons per hour, 50% load - 6.5 gallons per hour.	4,699.93	
01 22 23 00-0613 DAY 175.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 16.1 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.9 gallons per hour.	653.78	

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01 22 23 00-0614	WK	175.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 16.1 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.9 gallons per hour.	1,486.61	
01 22 23 00-0615	MO	175.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 16.1 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.9 gallons per hour.	4,937.30	
01 22 23 00-0616	DAY	250.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 19.4 gallons per hour, 75% load - 15.5 gallons per hour, 50% load - 11.6 gallons per hour.	813.84	
01 22 23 00-0617	WK	250.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 19.4 gallons per hour, 75% load - 15.5 gallons per hour, 50% load - 11.6 gallons per hour.	2,082.07	
01 22 23 00-0618	MO	250.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 19.4 gallons per hour, 75% load - 15.5 gallons per hour, 50% load - 11.6 gallons per hour.	5,493.42	
01 22 23 00-0619	DAY	300.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 22.7 gallons per hour, 75% load - 17.6 gallons per hour, 50% load - 13.6 gallons per hour.	922.35	
01 22 23 00-0620	WK	300.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 22.7 gallons per hour, 75% load - 17.6 gallons per hour, 50% load - 13.6 gallons per hour.	2,238.06	
01 22 23 00-0621	MO	300.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 22.7 gallons per hour, 75% load - 17.6 gallons per hour, 50% load - 13.6 gallons per hour.	6,103.80	
01 22 23 00-0622	DAY	350.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 29.1 gallons per hour, 75% load - 23.9 gallons per hour, 50% load - 18.3 gallons per hour.	1,302.14	
01 22 23 00-0623	WK	350.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 29.1 gallons per hour, 75% load - 23.9 gallons per hour, 50% load - 18.3 gallons per hour.	2,929.82	
01 22 23 00-0624	MO	350.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 29.1 gallons per hour, 75% load - 23.9 gallons per hour, 50% load - 18.3 gallons per hour.	7,812.86	
01 22 23 00-0625	DAY	400.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 32.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 19.9 gallons per hour.	1,390.31	
01 22 23 00-0626	WK	400.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 32.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 19.9 gallons per hour.	3,363.87	
01 22 23 00-0627	MO	400.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 32.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 19.9 gallons per hour.	9,833.90	
01 22 23 00-0628	DAY	500.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 37.4 gallons per hour, 75% load - 28.5 gallons per hour, 50% load - 23.7 gallons per hour.	1,551.72	
01 22 23 00-0629	WK	500.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 37.4 gallons per hour, 75% load - 28.5 gallons per hour, 50% load - 23.7 gallons per hour.	3,526.64	
01 22 23 00-0630	MO	500.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 37.4 gallons per hour, 75% load - 28.5 gallons per hour, 50% load - 23.7 gallons per hour.	10,579.92	
01 22 23 00-0631	DAY	750.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 54.8 gallons per hour, 75% load - 40.9 gallons per hour, 50% load - 28.8 gallons per hour.	2,170.24	
01 22 23 00-0632	WK	750.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 54.8 gallons per hour, 75% load - 40.9 gallons per hour, 50% load - 28.8 gallons per hour.	5,425.60	
01 22 23 00-0633	MO	750.0 KW, 60 Hertz Diesel Powered Generator Set..... Note: Fuel consumption: 100% load - 54.8 gallons per hour, 75% load - 40.9 gallons per hour, 50% load - 28.8 gallons per hour.	16,276.80	
01 22 23 00-0634	EA	Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	881.84	
01 22 23 00-0635	EA	350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,356.75	
01 22 23 00-0636		Cablings For Generator Sets (01 22 23 00-0580) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0637	DAY	#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	29.84	
01 22 23 00-0638	WK	#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	52.22	
01 22 23 00-0639	MO	#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	156.66	
01 22 23 00-0640	DAY	50', 4/0 Cable With Camlock Ends For Generator Set.....	14.92	
01 22 23 00-0641	WK	50', 4/0 Cable With Camlock Ends For Generator Set.....	43.40	
01 22 23 00-0642	MO	50', 4/0 Cable With Camlock Ends For Generator Set.....	120.72	
01 22 23 00-0643		Resistive Loadbanks (01 22 23 00-0580) Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0664 for reimbursable fuel fees.		
01 22 23 00-0644	DAY	100 KW A/C Resistive Loadbank.....	371.28	
01 22 23 00-0645	WK	100 KW A/C Resistive Loadbank.....	916.36	
01 22 23 00-0646	MO	100 KW A/C Resistive Loadbank.....	2,741.18	
01 22 23 00-0647	DAY	650 KW A/C Resistive Loadbank.....	625.65	
01 22 23 00-0648	WK	650 KW A/C Resistive Loadbank.....	1,673.15	
01 22 23 00-0649	MO	650 KW A/C Resistive Loadbank.....	4,265.81	



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01 22 23 00-0650 Sub-Distribution Panels (Spider Box) (01 22 23 00-0580) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0651 DAY Sub-Distribution Panel (Spider Box)	73.25	
01 22 23 00-0652 WK Sub-Distribution Panel (Spider Box)	189.90	
01 22 23 00-0653 MO Sub-Distribution Panel (Spider Box)	535.78	
01 22 23 00-0654 Portable Distribution Panels (01 22 23 00-0580) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0655 DAY 200 Amp Spider Box Feeder Panel	162.77	
01 22 23 00-0656 WK 200 Amp Spider Box Feeder Panel	440.83	
01 22 23 00-0657 MO 200 Amp Spider Box Feeder Panel	1,234.32	
01 22 23 00-0658 DAY 100 Amp Quad Box Panel	132.93	
01 22 23 00-0659 WK 100 Amp Quad Box Panel	345.88	
01 22 23 00-0660 MO 100 Amp Quad Box Panel	983.39	
01 22 23 00-0661 DAY 200 Amp Quad Box Panel	169.55	
01 22 23 00-0662 WK 200 Amp Quad Box Panel	427.27	
01 22 23 00-0663 MO 200 Amp Quad Box Panel	1,159.72	
01 22 23 00-0664 Fuel Reimbursement For Generators (01 22 23 00-0580)		
01 22 23 00-0665 EA Fuel Reimbursement For Generators	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0666 Space Heaters (01 22 23 00-0565) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0667 DAY 150,000 BTU/Hour Space Heater	61.41	
01 22 23 00-0668 WK 150,000 BTU/Hour Space Heater	176.56	
01 22 23 00-0669 MO 150,000 BTU/Hour Space Heater	498.97	
01 22 23 00-0670 DAY 500,000 BTU/Hour Space Heater	130.50	
01 22 23 00-0671 WK 500,000 BTU/Hour Space Heater	322.41	
01 22 23 00-0672 MO 500,000 BTU/Hour Space Heater	815.24	
01 22 23 00-0673 General Equipment (01 22 23)		
01 22 23 00-0674 Jacks And Bracing (01 22 23 00-0673) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0675 Manual Hydraulic Jacks (01 22 23 00-0674)		
01 22 23 00-0676 DAY 12 Ton Manual Hydraulic Bottle Jack	14.19	
01 22 23 00-0677 WK 12 Ton Manual Hydraulic Bottle Jack	36.90	
01 22 23 00-0678 MO 12 Ton Manual Hydraulic Bottle Jack	65.28	
01 22 23 00-0679 DAY 20 Ton Manual Hydraulic Bottle Jack	28.38	
01 22 23 00-0680 WK 20 Ton Manual Hydraulic Bottle Jack	79.48	
01 22 23 00-0681 MO 20 Ton Manual Hydraulic Bottle Jack	156.11	
01 22 23 00-0682 DAY 50 Ton Manual Hydraulic Bottle Jack	44.00	
01 22 23 00-0683 WK 50 Ton Manual Hydraulic Bottle Jack	109.28	
01 22 23 00-0684 MO 50 Ton Manual Hydraulic Bottle Jack	184.50	
01 22 23 00-0685 DAY 100 Ton Manual Hydraulic Bottle Jack	116.37	
01 22 23 00-0686 WK 100 Ton Manual Hydraulic Bottle Jack	279.58	
01 22 23 00-0687 MO 100 Ton Manual Hydraulic Bottle Jack	465.50	
01 22 23 00-0688 Manual Screw Jacks (01 22 23 00-0674)		
01 22 23 00-0689 DAY 10 To 20 Ton Manual Screw Jack	13.72	
01 22 23 00-0690 WK 10 To 20 Ton Manual Screw Jack	36.94	
01 22 23 00-0691 MO 10 To 20 Ton Manual Screw Jack	102.38	
01 22 23 00-0692 Pressure Washers (01 22 23 00-0673) Note: Includes full-time operator, delivery, set-up, and removal.		
01 22 23 00-0693 DAY 2,000 PSI Pressure Washer With Full-Time Operator	660.15	
For Equipment Without Operator, Deduct	-574.75	
01 22 23 00-0694 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,090.54	
For Equipment Without Operator, Deduct	-2,873.76	
01 22 23 00-0695 MO 2,000 PSI Pressure Washer With Full-Time Operator	12,938.68	
For Equipment Without Operator, Deduct	-12,386.88	
01 22 23 00-0696 DAY 2,500 PSI Pressure Washer With Full-Time Operator	660.15	
For Equipment Without Operator, Deduct	-574.75	
01 22 23 00-0697 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,090.54	
For Equipment Without Operator, Deduct	-2,873.76	
01 22 23 00-0698 MO 2,500 PSI Pressure Washer With Full-Time Operator	12,938.68	
For Equipment Without Operator, Deduct	-12,386.88	
01 22 23 00-0699 DAY 3,000 PSI Pressure Washer With Full-Time Operator	660.15	
For Equipment Without Operator, Deduct	-574.75	

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01 22 23 00-0700 WK 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,090.54 -2,873.76	
01 22 23 00-0701 MO 3,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,938.68 -12,386.88	
01 22 23 00-0702 DAY 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	666.72 -574.75	
01 22 23 00-0703 WK 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,110.24 -2,873.76	
01 22 23 00-0704 MO 3,500 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,991.23 -12,386.88	
01 22 23 00-0705 DAY 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	692.99 -574.75	
01 22 23 00-0706 WK 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,195.64 -2,873.76	
01 22 23 00-0707 MO 4,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,286.83 -12,386.88	
01 22 23 00-0708 DAY 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	706.13 -574.75	
01 22 23 00-0709 WK 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,228.49 -2,873.76	
01 22 23 00-0710 MO 5,000 PSI Pressure Washer With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,385.37 -12,386.88	
01 22 23 00-0711 Confined Space Entry Equipment (01 22 23 00-0673) Note: Includes delivery, set-up, and removal.		
01 22 23 00-0712 DAY Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	47.47	
01 22 23 00-0713 WK Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	142.42	
01 22 23 00-0714 MO Ventilation Equipment For Confined Space Note: Includes electric or gas blower and ventilation duct up to 25'.	424.99	
01 22 23 00-0715 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	32.10	
01 22 23 00-0716 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	96.30	
01 22 23 00-0717 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	288.90	
01 22 23 00-0718 DAY Confined Space Air Monitor Personnel Note: Per person day.	600.96	
01 22 23 00-0719 Material Handling Equipment (01 22 23)		
01 22 23 00-0720 Truck Mounted Hydraulic Cranes (01 22 23 00-0719) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0721 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,069.66 -640.34	
01 22 23 00-0722 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,502.29 -3,201.71	
01 22 23 00-0723 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,714.85 -13,800.48	
01 22 23 00-0724 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,183.30 -640.34	
01 22 23 00-0725 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,840.06 -3,201.71	
01 22 23 00-0726 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,725.01 -13,800.48	
01 22 23 00-0727 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,296.94 -640.34	
01 22 23 00-0728 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,177.84 -3,201.71	
01 22 23 00-0729 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,735.17 -13,800.48	
01 22 23 00-0730 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,448.47 -640.34	
01 22 23 00-0731 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,632.41 -3,201.71	
01 22 23 00-0732 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,092.57 -13,800.48	
01 22 23 00-0733 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,587.36 -640.34	
01 22 23 00-0734 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,573.12 -3,201.71	
01 22 23 00-0735 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,912.18 -13,800.48	
01 22 23 00-0736 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,915.67 -640.34	
01 22 23 00-0737 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,747.43 -3,201.71	
01 22 23 00-0738 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,437.64 -13,800.48	
01 22 23 00-0739 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,124.01 -640.34	
01 22 23 00-0740 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,479.80 -3,201.71	



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01 22 23 00-0741	MO	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,639.79 -13,800.48	
01 22 23 00-0742	DAY	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,288.16 -640.34	
01 22 23 00-0743	WK	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,073.27 -3,201.71	
01 22 23 00-0744	MO	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,417.67 -13,800.48	
01 22 23 00-0745	DAY	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,452.31 -640.34	
01 22 23 00-0746	WK	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,666.73 -3,201.71	
01 22 23 00-0747	MO	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,195.55 -13,800.48	
01 22 23 00-0748	DAY	90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,559.64 -640.34	
01 22 23 00-0749	WK	90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,032.92 -3,201.71	
01 22 23 00-0750	MO	90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,306.73 -13,800.48	
01 22 23 00-0751	DAY	100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,704.85 -640.34	
01 22 23 00-0752	WK	100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,575.88 -3,201.71	
01 22 23 00-0753	MO	100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	35,922.98 -13,800.48	
01 22 23 00-0754 Cable Controlled Lattice Boom, Truck Mounted Mechanical Cranes (01 22 23 00-0719)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0755	DAY	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,155.58 -640.34	
01 22 23 00-0756	WK	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,606.07 -3,201.71	
01 22 23 00-0757	MO	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	30,013.55 -13,800.48	
01 22 23 00-0758	DAY	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,323.58 -640.34	
01 22 23 00-0759	WK	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,550.62 -3,201.71	
01 22 23 00-0760	MO	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	35,847.22 -13,800.48	
01 22 23 00-0761	DAY	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,512.98 -640.34	
01 22 23 00-0762	WK	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,933.28 -3,201.71	
01 22 23 00-0763	MO	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,993.93 -13,800.48	
01 22 23 00-0764	DAY	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,891.79 -640.34	
01 22 23 00-0765	WK	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,315.94 -3,201.71	
01 22 23 00-0766	MO	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	44,135.58 -13,800.48	
01 22 23 00-0767	DAY	250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,251.66 -640.34	
01 22 23 00-0768	WK	250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,081.25 -3,201.71	
01 22 23 00-0769	MO	250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	52,439.10 -13,800.48	
01 22 23 00-0770	DAY	300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,845.13 -640.34	
01 22 23 00-0771	WK	300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,208.90 -3,201.71	
01 22 23 00-0772	MO	300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	58,813.21 -13,800.48	
01 22 23 00-0773	DAY	500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,494.33 -640.34	
01 22 23 00-0774	WK	500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	31,214.71 -3,201.71	
01 22 23 00-0775	MO	500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	97,845.79 -13,800.48	
01 22 23 00-0776 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0719)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0777	DAY	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,108.37 -600.96	
01 22 23 00-0778	WK	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,246.64 -3,004.81	
01 22 23 00-0779	MO	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,622.38 -12,951.78	
01 22 23 00-0780	DAY	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,161.79 -600.96	

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01 22 23 00-0781 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	4,366.82	
For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0782 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	15,889.44	
For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0783 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,148.43	
For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0784 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	4,426.90	
For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0785 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	16,290.03	
For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0786 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	1,301.99	
For Equipment Without Operator, Deduct	-600.96	
01 22 23 00-0787 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	4,827.49	
For Equipment Without Operator, Deduct	-3,004.81	
01 22 23 00-0788 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator.....	17,224.74	
For Equipment Without Operator, Deduct	-12,951.78	
01 22 23 00-0789 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0719)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0790 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	930.78	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	65.96	
01 22 23 00-0791 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,905.47	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	180.13	
01 22 23 00-0792 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,013.15	
For Equipment Without Operator, Deduct	-12,951.78	
For Propane Instead Of Gas Or Diesel, Add	412.27	
01 22 23 00-0793 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	948.14	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	69.44	
01 22 23 00-0794 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,952.87	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	189.61	
01 22 23 00-0795 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,121.64	
For Equipment Without Operator, Deduct	-12,951.78	
For Propane Instead Of Gas Or Diesel, Add	433.97	
01 22 23 00-0796 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,041.61	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	88.13	
01 22 23 00-0797 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,213.26	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	241.69	
01 22 23 00-0798 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,722.53	
For Equipment Without Operator, Deduct	-12,951.78	
For Propane Instead Of Gas Or Diesel, Add	554.15	
01 22 23 00-0799 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,093.08	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	98.42	
01 22 23 00-0800 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,190.96	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	237.23	
01 22 23 00-0801 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,904.53	
For Equipment Without Operator, Deduct	-12,951.78	
For Propane Instead Of Gas Or Diesel, Add	590.55	
01 22 23 00-0802 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0719)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0803 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	881.37	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	56.08	
01 22 23 00-0804 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	3,645.75	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	128.19	
01 22 23 00-0805 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	14,487.38	
For Equipment Without Operator, Deduct	-12,951.78	
For Propane Instead Of Gas Or Diesel, Add	307.12	
01 22 23 00-0806 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	888.05	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	57.42	
01 22 23 00-0807 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	3,665.78	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	132.19	
01 22 23 00-0808 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	14,534.11	
For Equipment Without Operator, Deduct	-12,951.78	
For Propane Instead Of Gas Or Diesel, Add	316.47	
01 22 23 00-0809 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,028.26	
For Equipment Without Operator, Deduct	-600.96	
For Propane Instead Of Gas Or Diesel, Add	85.46	
01 22 23 00-0810 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	3,972.90	
For Equipment Without Operator, Deduct	-3,004.81	
For Propane Instead Of Gas Or Diesel, Add	193.62	



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01 22 23 00-0811 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	15,288.56 -12,951.78 467.36	
01 22 23 00-0812 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	1,041.61 -600.96 88.13	
01 22 23 00-0813 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	4,086.40 -3,004.81 216.32	
01 22 23 00-0814 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	15,689.14 -12,951.78 547.47	
01 22 23 00-0815 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	1,161.79 -600.96 112.17	
01 22 23 00-0816 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	4,280.02 -3,004.81 255.04	
01 22 23 00-0817 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator..... For Equipment Without Operator, Deduct For Propane Instead Of Gas Or Diesel, Add	16,022.97 -12,951.78 614.24	
01 22 23 00-0818 Chain Hoists (01 22 23 00-0719) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0819 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	14.19	
01 22 23 00-0820 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	38.32	
01 22 23 00-0821 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.51	
01 22 23 00-0822 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	31.22	
01 22 23 00-0823 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	75.22	
01 22 23 00-0824 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	187.33	
01 22 23 00-0825 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.41	
01 22 23 00-0826 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	109.28	
01 22 23 00-0827 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	272.49	
01 22 23 00-0828 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.83	
01 22 23 00-0829 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	218.56	
01 22 23 00-0830 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	544.97	
01 22 23 00-0831 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	102.18	
01 22 23 00-0832 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	246.94	
01 22 23 00-0833 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	613.09	
01 22 23 00-0834 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	127.73	
01 22 23 00-0835 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	307.97	
01 22 23 00-0836 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	766.37	
01 22 23 00-0837 Pumping Equipment (01 22 23)		
01 22 23 00-0838 Gas Powered Portable Centrifugal Pumps (01 22 23 00-0837) Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0862 for larger diameter pumps.		
01 22 23 00-0839 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	59.29	
01 22 23 00-0840 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	133.41	
01 22 23 00-0841 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	355.75	
01 22 23 00-0842 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	71.15	
01 22 23 00-0843 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	160.09	
01 22 23 00-0844 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	426.90	
01 22 23 00-0845 Gas Powered Portable Diaphragm Pumps (01 22 23 00-0837) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0846 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	68.19	
01 22 23 00-0847 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	192.70	
01 22 23 00-0848 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	489.16	
01 22 23 00-0849 DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	83.01	
01 22 23 00-0850 WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	222.34	
01 22 23 00-0851 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	629.98	
01 22 23 00-0852 Gas Powered Portable Trash Pumps (01 22 23 00-0837) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0853 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	85.97	
01 22 23 00-0854 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	177.88	
01 22 23 00-0855 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	533.63	
01 22 23 00-0856 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	85.97	
01 22 23 00-0857 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	229.76	
01 22 23 00-0858 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	629.98	
01 22 23 00-0859 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	136.37	
01 22 23 00-0860 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	385.40	
01 22 23 00-0861 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,119.14	
01 22 23 00-0862 Diesel Powered Portable Trash Pumps (01 22 23 00-0837) Note: Includes delivery, set-up, and removal. Excludes operator.		

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01 22 23 00-0863 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	266.81	
01 22 23 00-0864 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	726.33	
01 22 23 00-0865 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,164.71	
01 22 23 00-0866 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	407.63	
01 22 23 00-0867 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,067.26	
01 22 23 00-0868 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	2,838.60	
01 22 23 00-0869 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	554.38	
01 22 23 00-0870 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,483.78	
01 22 23 00-0871 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,969.60	
01 22 23 00-0872 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	717.43	
01 22 23 00-0873 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	1,832.12	
01 22 23 00-0874 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	5,380.75	
01 22 23 00-0875 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0837)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0876 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	380.95	
01 22 23 00-0877 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	867.15	
01 22 23 00-0878 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,703.72	
01 22 23 00-0879 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	466.92	
01 22 23 00-0880 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,163.61	
01 22 23 00-0881 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,164.71	
01 22 23 00-0882 DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	563.27	
01 22 23 00-0883 WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,666.11	
01 22 23 00-0884 MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	4,647.01	
01 22 23 00-0885 DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	847.88	
01 22 23 00-0886 WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,165.64	
01 22 23 00-0887 MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	6,359.07	
01 22 23 00-0888 3 Phase Electric Submersible Pumps (01 22 23 00-0837)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0889 DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	148.23	
01 22 23 00-0890 WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	370.58	
01 22 23 00-0891 MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,111.72	
01 22 23 00-0892 DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	195.66	
01 22 23 00-0893 WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	489.16	
01 22 23 00-0894 MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,467.48	
01 22 23 00-0895 Suction Hose With Couplings (01 22 23 00-0837)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-0896 DAY 1-1/2" Inside Diameter, 20' Length, Suction Hose With Couplings	10.23	
01 22 23 00-0897 WK 1-1/2" Inside Diameter, 20' Length, Suction Hose With Couplings	25.57	
01 22 23 00-0898 MO 1-1/2" Inside Diameter, 20' Length, Suction Hose With Couplings	63.07	
01 22 23 00-0899 DAY 2" Inside Diameter, 20' Length, Suction Hose With Couplings	11.93	
01 22 23 00-0900 WK 2" Inside Diameter, 20' Length, Suction Hose With Couplings	27.27	
01 22 23 00-0901 MO 2" Inside Diameter, 20' Length, Suction Hose With Couplings	66.48	
01 22 23 00-0902 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings	25.57	
01 22 23 00-0903 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings	56.25	
01 22 23 00-0904 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings	151.71	
01 22 23 00-0905 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings	32.39	
01 22 23 00-0906 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings	73.30	
01 22 23 00-0907 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings	196.03	
01 22 23 00-0908 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings	42.62	
01 22 23 00-0909 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings	98.87	
01 22 23 00-0910 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings	223.31	
01 22 23 00-0911 Discharge Hose With Couplings (01 22 23 00-0837)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-0912 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	14.82	
01 22 23 00-0913 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	31.13	
01 22 23 00-0914 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	66.70	
01 22 23 00-0915 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	23.72	
01 22 23 00-0916 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	34.09	
01 22 23 00-0917 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	71.15	
01 22 23 00-0918 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	23.72	
01 22 23 00-0919 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	47.43	
01 22 23 00-0920 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	93.38	
01 22 23 00-0921 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	32.61	
01 22 23 00-0922 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	85.97	
01 22 23 00-0923 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	173.43	
01 22 23 00-0924 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	65.22	
01 22 23 00-0925 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	133.41	
01 22 23 00-0926 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	281.64	



General Requirements			01
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0927 Hydraulic Submersible Pumps (01 22 23 00-0837)		
01 22 23 00-0928 Hydraulic Submersible Pumps (01 22 23 00-0927)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0929 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	97.83	
01 22 23 00-0930 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	262.37	
01 22 23 00-0931 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	733.74	
01 22 23 00-0932 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	124.51	
01 22 23 00-0933 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	320.18	
01 22 23 00-0934 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	978.32	
01 22 23 00-0935 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-0927)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0936 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack	226.05	
01 22 23 00-0937 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack	674.45	
01 22 23 00-0938 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack	1,778.76	
01 22 23 00-0939 Temporary Building Services (01 22 23)		
01 22 23 00-0940 Boilers (01 22 23 00-0939)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0941 Electric Boilers (01 22 23 00-0940)		
01 22 23 00-0942 MO 40 MBH, 12 KW Electric Boiler Rental	1,381.82	
01 22 23 00-0943 MO 60 MBH, 20 KW Electric Boiler Rental	1,507.46	
01 22 23 00-0944 MO 95 MBH, 30 KW Electric Boiler Rental	1,570.28	
01 22 23 00-0945 MO 135 MBH, 40 KW Electric Boiler Rental	1,758.68	
01 22 23 00-0946 MO 165 MBH, 50 KW Electric Boiler Rental	2,449.59	
01 22 23 00-0947 MO 215 MBH, 60 KW Electric Boiler Rental	2,826.46	
01 22 23 00-0948 MO 365 MBH, 100 KW Electric Boiler Rental	3,705.83	
01 22 23 00-0949 MO 510 MBH, 150 KW Electric Boiler Rental	4,522.37	
01 22 23 00-0950 Oil/Gas Fired Boilers (01 22 23 00-0940)		
01 22 23 00-0951 MO Up To 100 HP Gas/Oil Dual Fuel Boiler Rental	5,000.00	
For >3 Months Rental, Deduct	-750.00	
01 22 23 00-0952 MO >100 HP To 250 HP Gas/Oil Dual Fuel Boiler Rental	6,500.00	
For >3 Months Rental, Deduct	-975.00	
01 22 23 00-0953 MO >250 HP To 500 HP Gas/Oil Dual Fuel Boiler Rental	10,500.00	
For >3 Months Rental, Deduct	-1,575.00	
01 22 23 00-0954 MO >500 HP To 800 HP Gas/Oil Dual Fuel Boiler Rental	14,500.00	
For >3 Months Rental, Deduct	-2,175.00	
01 22 23 00-0955 Oil Fired Boilers (01 22 23 00-0940)		
01 22 23 00-0956 MO 250 HP Oil Fired Boiler Rental	3,880.85	
01 22 23 00-0957 MO 350 HP Oil Fired Boiler Rental	5,174.47	
01 22 23 00-0958 MO 500 HP Oil Fired Boiler Rental	6,468.09	
01 22 23 00-0959 MO 600 HP Oil Fired Boiler Rental	7,114.89	
01 22 23 00-0960 Boilers Setup (01 22 23 00-0940)		
01 22 23 00-0961 EA Setup Rental Boiler	3,887.13	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-0962 Chillers (01 22 23 00-0939)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0963 Air Cooled Chillers (01 22 23 00-0962)		
01 22 23 00-0964 MO 25 Ton Air Cooled Chiller Rental	2,357.06	
For >3 To 6 Month Rental, Deduct	-353.56	
For >6 Month Rental, Deduct	-589.27	
01 22 23 00-0965 MO 40 Ton Air Cooled Chiller Rental	3,771.31	
For >3 To 6 Month Rental, Deduct	-565.70	
For >6 Month Rental, Deduct	-942.83	
01 22 23 00-0966 MO 60 Ton Air Cooled Chiller Rental	4,612.73	
For >3 To 6 Month Rental, Deduct	-691.91	
For >6 Month Rental, Deduct	-1,153.18	
01 22 23 00-0967 MO 80 Ton Air Cooled Chiller Rental	5,454.16	
For >3 To 6 Month Rental, Deduct	-818.12	
For >6 Month Rental, Deduct	-1,363.54	
01 22 23 00-0968 MO 100 Ton Air Cooled Chiller Rental	6,295.59	
For >3 To 6 Month Rental, Deduct	-944.34	
For >6 Month Rental, Deduct	-1,573.90	
01 22 23 00-0969 MO 125 Ton Air Cooled Chiller Rental	7,293.56	
For >3 To 6 Month Rental, Deduct	-1,094.03	
For >6 Month Rental, Deduct	-1,823.39	

01	General Requirements
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01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0970 MO 155 Ton Air Cooled Chiller Rental.....	8,823.42	
For >3 To 6 Month Rental, Deduct	-1,323.51	
For >6 Month Rental, Deduct	-2,205.86	
01 22 23 00-0971 MO 170 Ton Air Cooled Chiller Rental.....	9,435.37	
For >3 To 6 Month Rental, Deduct	-1,415.31	
For >6 Month Rental, Deduct	-2,358.84	
01 22 23 00-0972 MO 200 Ton Air Cooled Chiller Rental.....	10,838.94	
For >3 To 6 Month Rental, Deduct	-1,625.84	
For >6 Month Rental, Deduct	-2,709.74	
01 22 23 00-0973 MO 250 Ton Air Cooled Chiller Rental.....	12,897.15	
For >3 To 6 Month Rental, Deduct	-1,934.57	
For >6 Month Rental, Deduct	-3,224.29	
01 22 23 00-0974 MO 300 Ton Air Cooled Chiller Rental.....	15,049.64	
Note: Includes trailer.		
For >3 To 6 Month Rental, Deduct	-2,257.45	
For >6 Month Rental, Deduct	-3,762.41	
01 22 23 00-0975 MO 400 Ton Air Cooled Chiller Rental.....	19,852.72	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct	-2,977.91	
For >6 Month Rental, Deduct	-4,963.18	
01 22 23 00-0976 MO 500 Ton Air Cooled Chiller Rental.....	24,573.96	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct	-3,686.09	
For >6 Month Rental, Deduct	-6,143.49	
01 22 23 00-0977 EA Setup Air Cooled Chiller Rental Unit.....	2,702.03	
Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
01 22 23 00-0978 Chiller Rental Accessories (01 22 23 00-0962)		
01 22 23 00-0979 MO 4" x 25' Flexible Water Hose For Chiller Rental.....	42.00	
01 22 23 00-0980 MO 6" x 25' Flexible Water Hose For Chiller Rental.....	52.50	
01 22 23 00-0981 Cooling Tower (01 22 23 00-0939)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0982 MO 100 Ton Cooling Tower Rental.....	2,163.00	
For >3 To 6 Months Rental, Deduct	-324.45	
For >6 Months Rental, Deduct	-540.75	
01 22 23 00-0983 MO 200 Ton Cooling Tower Rental.....	3,937.50	
For >3 To 6 Months Rental, Deduct	-590.63	
For >6 Months Rental, Deduct	-984.38	
01 22 23 00-0984 MO 250 Ton Cooling Tower Rental.....	4,459.04	
For >3 To 6 Months Rental, Deduct	-668.86	
For >6 Months Rental, Deduct	-1,114.76	
01 22 23 00-0985 MO 300 Ton Cooling Tower Rental.....	5,040.00	
For >3 To 6 Months Rental, Deduct	-756.00	
For >6 Months Rental, Deduct	-1,260.00	
01 22 23 00-0986 MO 400 Ton Cooling Tower Rental.....	6,300.00	
For >3 To 6 Months Rental, Deduct	-945.00	
For >6 Months Rental, Deduct	-1,575.00	
01 22 23 00-0987 MO 500 Ton Cooling Tower Rental.....	7,365.78	
For >3 To 6 Months Rental, Deduct	-1,104.87	
For >6 Months Rental, Deduct	-1,841.45	
01 22 23 00-0988 MO Setup Rental Cooling Tower.....	2,702.03	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-0989 Emergency Cooler/Freezer (01 22 23 00-0939)		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115V or 230V, freezer 208/230V, combo 115V or 230V.		
01 22 23 00-0990 DAY 8 x 6 x 7 Emergency Cooler Rental.....	90.00	
01 22 23 00-0991 WK 8 x 6 x 7 Emergency Cooler Rental.....	480.00	
01 22 23 00-0992 DAY 10 x 7 x 7 Emergency Cooler Rental.....	180.00	
01 22 23 00-0993 WK 10 x 7 x 7 Emergency Cooler Rental.....	720.00	
01 22 23 00-0994 MO 10 x 7 x 7 Emergency Cooler Rental.....	1,800.00	
01 22 23 00-0995 DAY 10 x 7 x 7 Emergency Freezer Rental.....	210.00	
01 22 23 00-0996 WK 10 x 7 x 7 Emergency Freezer Rental.....	840.00	
01 22 23 00-0997 MO 10 x 7 x 7 Emergency Freezer Rental.....	2,160.00	
01 22 23 00-0998 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental.....	240.00	
01 22 23 00-0999 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental.....	960.00	
01 22 23 00-1000 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental.....	2,400.00	
01 22 23 00-1001 Portable Spot Cooling Units (01 22 23 00-0939)		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes operator.		
01 22 23 00-1002 DAY 1 Ton Portable Spot Cooling Unit.....	125.00	
01 22 23 00-1003 WK 1 Ton Portable Spot Cooling Unit.....	275.00	
01 22 23 00-1004 MO 1 Ton Portable Spot Cooling Unit.....	550.00	
01 22 23 00-1005 DAY 2 Ton Portable Spot Cooling Unit.....	200.00	
01 22 23 00-1006 WK 2 Ton Portable Spot Cooling Unit.....	400.00	
01 22 23 00-1007 MO 2 Ton Portable Spot Cooling Unit.....	900.00	
01 22 23 00-1008 DAY 3 Ton Portable Spot Cooling Unit.....	300.00	



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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
01 22 23 00-1009	WK	3 Ton Portable Spot Cooling Unit	600.00	
01 22 23 00-1010	MO	3 Ton Portable Spot Cooling Unit	1,200.00	
01 22 23 00-1011	DAY	5 Ton Portable Spot Cooling Unit	350.00	
01 22 23 00-1012	WK	5 Ton Portable Spot Cooling Unit	700.00	
01 22 23 00-1013	MO	5 Ton Portable Spot Cooling Unit	1,600.00	
01 22 23 00-1014	DAY	10 Ton Portable Spot Cooling Unit	750.00	
01 22 23 00-1015	WK	10 Ton Portable Spot Cooling Unit	1,200.00	
01 22 23 00-1016	MO	10 Ton Portable Spot Cooling Unit	2,400.00	
01 22 23 00-1017	DAY	20 Ton Portable Spot Cooling Unit	1,000.00	
01 22 23 00-1018	WK	20 Ton Portable Spot Cooling Unit	1,750.00	
01 22 23 00-1019	MO	20 Ton Portable Spot Cooling Unit	3,750.00	
01 22 23 00-1020	DAY	25 Ton Portable Spot Cooling Unit	800.00	
01 22 23 00-1021	WK	25 Ton Portable Spot Cooling Unit	1,700.00	
01 22 23 00-1022	MO	25 Ton Portable Spot Cooling Unit	4,000.00	
01 22 23 00-1023	Fuel Oil Tank (01 22 23 00-0939)			
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0664 for reimbursable fuel fees.				
01 22 23 00-1024	MO	100 Gallon Portable Double Wall Fuel Oil Tank Rental	446.76	
01 22 23 00-1025	MO	275 Gallon Portable Double Wall Fuel Oil Tank Rental	694.95	
01 22 23 00-1026	MO	500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,737.38	
01 22 23 00-1027	MO	1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,895.64	
01 22 23 00-1028	MO	2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,822.24	
01 22 23 00-1029	MO	5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	6,828.19	
01 22 23 00-1030	Truck And Trailer Equipment (01 22 23)			
01 22 23 00-1031	Trucks (01 22 23 00-1030)			
Note: Includes full-time driver, delivery, and removal.				
01 22 23 00-1032	Flat Bed Trucks (01 22 23 00-1031)			
Note: Includes hydraulic tilt bed.				
01 22 23 00-1033	DAY	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	756.39	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1034	WK	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,211.75	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1035	MO	1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	12,722.15	
For Equipment Without Operator, Deduct			-11,134.67	
01 22 23 00-1036	DAY	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	860.06	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1037	WK	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,477.41	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1038	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	13,402.49	
For Equipment Without Operator, Deduct			-11,134.67	
01 22 23 00-1039	DAY	6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	934.45	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1040	WK	6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,761.73	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1041	MO	6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	14,484.59	
For Equipment Without Operator, Deduct			-11,134.69	
01 22 23 00-1042	Light Duty Trucks (01 22 23 00-1031)			
01 22 23 00-1043	DAY	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	760.95	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1044	WK	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	3,384.86	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1045	MO	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	12,814.26	
For Equipment Without Operator, Deduct			-11,134.67	
01 22 23 00-1046	DAY	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	806.76	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1047	WK	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	3,522.28	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1048	MO	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	13,119.64	
For Equipment Without Operator, Deduct			-11,134.67	
01 22 23 00-1049	Rear Dump Trucks (01 22 23 00-1031)			
01 22 23 00-1050	DAY	4 CY Rear Dump Truck With Full-Time Truck Driver	949.47	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1051	WK	4 CY Rear Dump Truck With Full-Time Truck Driver	3,775.70	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1052	MO	4 CY Rear Dump Truck With Full-Time Truck Driver	14,226.22	
For Equipment Without Operator, Deduct			-11,134.67	
01 22 23 00-1053	DAY	6 CY Rear Dump Truck With Full-Time Truck Driver	1,011.30	
For Equipment Without Operator, Deduct			-516.65	
01 22 23 00-1054	WK	6 CY Rear Dump Truck With Full-Time Truck Driver	3,908.19	
For Equipment Without Operator, Deduct			-2,583.24	
01 22 23 00-1055	MO	6 CY Rear Dump Truck With Full-Time Truck Driver	14,314.55	
For Equipment Without Operator, Deduct			-11,134.67	

01	General Requirements
01 20	Price And Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1056 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,744.44 -516.65	
01 22 23 00-1057 WK 13 CY Rear Dump Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	5,418.63 -2,583.24	
01 22 23 00-1058 MO 13 CY Rear Dump Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	18,554.39 -11,134.67	
01 22 23 00-1059 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,867.22 -516.65	
01 22 23 00-1060 WK 18 CY Rear Dump Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	5,702.17 -2,583.24	
01 22 23 00-1061 MO 18 CY Rear Dump Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	19,296.36 -11,134.67	
01 22 23 00-1062 Vacuum Trucks (01 22 23 00-1031)		
01 22 23 00-1063 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,735.60 -516.65	
01 22 23 00-1064 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	6,254.23 -2,583.24	
01 22 23 00-1065 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	21,967.46 -11,134.67	
01 22 23 00-1066 Water Trucks (01 22 23 00-1031) See CSI section 01 22 23 00-1082 for water trailer.		
01 22 23 00-1067 DAY 2,000 Gallon Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,139.41 -516.65 2.55	
01 22 23 00-1068 WK 2,000 Gallon Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	4,223.16 -2,583.24 2.55	
01 22 23 00-1069 MO 2,000 Gallon Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	15,009.59 -11,134.67 2.55	
01 22 23 00-1070 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,443.86 -516.65 2.55	
01 22 23 00-1071 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	5,136.54 -2,583.24 2.55	
01 22 23 00-1072 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Operator For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	17,362.22 -11,134.67 2.55	
01 22 23 00-1073 Asphalt Distribution Trucks (01 22 23 00-1031)		
01 22 23 00-1074 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,627.24 -516.65	
01 22 23 00-1075 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	5,900.74 -2,583.24	
01 22 23 00-1076 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	20,942.04 -11,134.67	
01 22 23 00-1077 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1031)		
01 22 23 00-1078 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion, Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,148.38 -513.38	
01 22 23 00-1079 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	3,838.90 -2,566.90	
01 22 23 00-1080 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver For Equipment Without Operator, Deduct	14,153.23 -11,064.23	
01 22 23 00-1081 Trailers (01 22 23 00-1030) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1082 Water Trailers With Pump (01 22 23 00-1081)		
01 22 23 00-1083 DAY 500 To 600 Gallon Water Trailer With Pump	159.15	
01 22 23 00-1084 WK 500 To 600 Gallon Water Trailer With Pump	408.25	
01 22 23 00-1085 MO 500 To 600 Gallon Water Trailer With Pump	1,093.28	

01 30 Administrative Requirements (01)

01 32 Construction Progress Documentation (01 30)

01 32 33 Photographic Documentation (01 32)

01 32 33 00-0001 Photography (01 32 33)

Note: Excludes QC photographs. As requested by owner.



General Requirements			01
Administrative Requirements			01 30
Construction Progress Documentation			01 32

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 32 33 00-0002	EA		3-1/2" x 5" Color Print Photograph.....	1.58	
01 32 33 00-0003	EA		4" x 6" Color Print Photograph.....	2.11	
01 32 33 00-0004	EA		5" x 7" Color Print Photograph.....	4.29	
01 32 33 00-0005	EA		8" x 10" Color Print Photograph.....	7.14	

01 32 33 00-0006 Aerial Survey And Photography (01 32 33)

Note: Cost per single location, 15 to 20 photos, up to 6 proofs developed, pictures 8" x 10" or 8-1/2" x 11".

01 32 33 00-0007	EA		Aerial Photography, 1 Site Within City, 15-20 Photos, 6 Proofs.....	1,248.90	
			For Each Additional City Location, 15-20 Photos, 6 Proofs, Add	175.00	
			For Each Mile Outside The City Area, Add	3.00	
			For Color Prints Instead Of Black And White, Add	374.67	
01 32 33 00-0008	EA		5 Minute Aerial Video With 3 Tapes And 11 x 14 Still Photograph	1,391.85	
			For Each Additional City Location, 15-20 Photos, 6 Proofs, Add	175.00	
			For Each Mile Outside The City Area, Add	3.00	
01 32 33 00-0009	HR		Aerial Tour Of Project Site Up To 3 Passengers (Helicopter)	940.44	

01 40 Quality Requirements (01)**01 45 Quality Control** (01 40)**01 45 23 Testing And Inspecting Services** (01 45)

Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001 Soils/Aggregate Testing (01 45 23)**01 45 23 00-0002 Field Soils Tests** (01 45 23 00-0001)

01 45 23 00-0003	EA		Plasticity Index Soils Test, ASTM D-4318, Field Soils Test.....	171.77	
01 45 23 00-0004	EA		4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	243.80	
01 45 23 00-0005	EA		6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	277.05	
01 45 23 00-0006	EA		Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	221.64	
01 45 23 00-0007	EA		Soils Classification Test, ASTM D-2487, Field Soils Test.....	332.46	
01 45 23 00-0008	SET		Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	664.71	
01 45 23 00-0009	EA		Moisture Content, Field Soils Test.....	24.93	
01 45 23 00-0010	EA		UBC Or Swell Test, Field Soils Test.....	87.32	
01 45 23 00-0011	EA		Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	166.18	
01 45 23 00-0012	EA		Proctor Compaction 6" Standard Mold, Field Soils Test	207.72	
01 45 23 00-0013	EA		Density And Classification Test, Field Soils Test.....	66.47	
01 45 23 00-0014	EA		Percolation Test, Field Soils Test	166.18	
01 45 23 00-0015	EA		Infiltration Test, Field Soils Test.....	332.36	

01 45 23 00-0016 Soil Borings Laboratory Tests (01 45 23 00-0001)

01 45 23 00-0017	EA		Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	76.28	
01 45 23 00-0018	EA		Shrinkage Limit, Soil Borings Laboratory Test.....	24.34	
01 45 23 00-0019	EA		Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	58.68	
01 45 23 00-0020	EA		Consolidation, Soil Borings Laboratory Test.....	410.76	
01 45 23 00-0021	EA		Swell Test, Soil Borings Laboratory Test	81.14	
01 45 23 00-0022	EA		In Place Density, Soil Borings Laboratory Test.....	17.60	
01 45 23 00-0023	EA		Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	10.94	
01 45 23 00-0024	EA		Hydrometer Analysis, Soil Borings Laboratory Test.....	141.20	
01 45 23 00-0025	EA		Specific Gravity, ASTM D854, Soil Borings Laboratory Test	49.24	
01 45 23 00-0026	EA		Partial Sieve Analysis, Soil Borings Laboratory Test	9.74	
01 45 23 00-0027	EA		Laboratory Permeability, Soil Borings Laboratory Test.....	486.87	
01 45 23 00-0028	EA		Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	98.47	
01 45 23 00-0029	EA		Sulfate Soundness, Soil Borings Laboratory Test.....	121.72	
01 45 23 00-0030	EA		Los Angeles Abrasion, Soil Borings Laboratory Test.....	283.80	
01 45 23 00-0031	EA		California Bearing Ratio, ASTM D1883	249.34	
01 45 23 00-0032	EA		Compaction Test Subgrade, Soil Borings Laboratory Test.....	73.03	
01 45 23 00-0033	EA		Compaction Test Base Course, Soil Borings Laboratory Test.....	61.79	
01 45 23 00-0034	EA		In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	240.14	
01 45 23 00-0035	EA		Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	37.33	

01 45 23 00-0036 Aggregate Testing (01 45 23 00-0001)

01 45 23 00-0037	EA		Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	55.41	
01 45 23 00-0038	EA		Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202	99.74	
01 45 23 00-0039	EA		Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	138.52	
01 45 23 00-0040	EA		Sieve Analysis, Pit Run, ASTM C136	108.02	
			Note: Includes wash.		
01 45 23 00-0041	EA		Specific Special Gravity, Course, ASTM C127	88.02	
			Note: Includes absorption test.		
01 45 23 00-0042	EA		Special Gravity, Fine, ASTM C127	78.93	
			Note: Includes absorption test.		
01 45 23 00-0043	EA		Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	117.36	
01 45 23 00-0044	EA		Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	110.82	
01 45 23 00-0045	EA		Aggregate Cleanliness Value, ASTM C-128, CA 227	110.82	
01 45 23 00-0046	EA		Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	83.12	
01 45 23 00-0047	EA		Fine Aggregate Durability Index, CA 229.....	88.66	
01 45 23 00-0048	EA		Sodium And Magnesium Soundness, ASTM C88	232.65	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0049 EA Los Angeles Rattler, ASTM C-131, CA 211	177.31	
01 45 23 00-0050 EA Los Angeles Rattler, ASTM C-535	177.31	
01 45 23 00-0051 EA Unit Weight Of Aggregates, ASTM C29	49.87	
01 45 23 00-0052 EA Organic Impurities In Sand, ASTM C40	49.85	
01 45 23 00-0053 EA Crushed Particle, ASTM California Test Method	49.85	
01 45 23 00-0054 EA Clay Lump And Friable Particles, ASTM C142	99.71	
01 45 23 00-0055 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0056 In-Place Tests (01 45 23 00-0055)		
01 45 23 00-0057 EA Double Ring Infiltrometer Test, ASTM D3385	880.20	
01 45 23 00-0058 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	41.54	
01 45 23 00-0059 Lab Tests (01 45 23 00-0055)		
01 45 23 00-0060 EA Falling Head Rigid Wall Consolidometer Technique CAE	410.76	
01 45 23 00-0061 EA Falling Head Permeability Test EPA-9100	410.76	
01 45 23 00-0062 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	234.72	
01 45 23 00-0063 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0064 Concrete Testing (01 45 23 00-0063)		
01 45 23 00-0065 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	16.84	
01 45 23 00-0066 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	35.21	
01 45 23 00-0067 EA Concrete Cores Compression Test, ASTM C-42	72.03	
01 45 23 00-0068 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	105.28	
01 45 23 00-0069 EA Unit Weight Of Concrete Cylinder, ASTM C-567	38.79	
01 45 23 00-0070 EA Concrete Mix Design Review	210.56	
01 45 23 00-0071 EA Trial Concrete Batch Prepared In Laboratory	498.69	
01 45 23 00-0072 EA Concrete Shrinkage, ASTM C-157 Modified	387.87	
01 45 23 00-0073 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496	59.84	
01 45 23 00-0074 EA Concrete Slump Test, ASTM C143	27.70	
01 45 23 00-0075 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	27.70	
01 45 23 00-0076 Cement Testing (01 45 23 00-0063)		
01 45 23 00-0077 EA Cement Grab Sample (CCR Title 24)	27.70	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0078 EA 2" x 2" x 2" Cube Compression Test, All Type Materials	44.33	
01 45 23 00-0079 Asphaltic Concrete Testing (01 45 23 00-0063)		
01 45 23 00-0080 EA Hveem Asphaltic Concrete Stability Test, CA 366	55.41	
01 45 23 00-0081 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	144.07	
01 45 23 00-0082 EA Stability Tests, Premixed, ASTM D1559	55.41	
01 45 23 00-0083 EA Stability Tests, Lab. Mixed, ASTM D1559	144.07	
01 45 23 00-0084 EA Swell Test, CA 305	66.49	
Note: Includes compaction.		
01 45 23 00-0085 EA % Asphalt Extraction Test, ASTM D-2172 B	166.23	
01 45 23 00-0086 EA Maximum Theoretical Unit Weight, ASTM C2041	105.62	
01 45 23 00-0087 EA Unit Weight Sample Requiring Compaction, California Test Method 308	22.16	
01 45 23 00-0088 EA Asphalt Unit Weight On Core Test, CA 308C	22.16	
01 45 23 00-0089 HR Nuclear Field Density Testing, 4 Hour Minimum	114.14	
01 45 23 00-0090 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	74.78	
01 45 23 00-0091 EA Penetration, ASTM D5	80.05	
01 45 23 00-0092 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0093 Masonry Testing (01 45 23 00-0092)		
01 45 23 00-0094 EA 2" x 4" Cylinder Mortar Compression Test	36.57	
01 45 23 00-0095 EA 4" x 4" x 8" Grout Prisms Compression Test	36.57	
01 45 23 00-0096 EA Masonry Cores Compression Test	72.03	
01 45 23 00-0097 EA Composite Grouted Prism Compression Test	138.52	
01 45 23 00-0098 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0092)		
01 45 23 00-0099 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	88.66	
01 45 23 00-0100 EA Absorption Test, Moisture Content And Unit Weight	60.95	
01 45 23 00-0101 EA Moisture Condition By Relative Humidity, ASTM C427, First Unit	232.65	
01 45 23 00-0102 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	116.32	
01 45 23 00-0103 Metals Testing (01 45 23)		
01 45 23 00-0104 Tank Line Tightness Testing (01 45 23 00-0103)		
01 45 23 00-0105 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	423.50	
01 45 23 00-0106 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing	470.26	
01 45 23 00-0107 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing	516.85	



General Requirements			01
Quality Requirements			01 40
Quality Control			01 45

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0108			Other Testing (01 45 23)		
01 45 23 00-0109			Special Testing (01 45 23 00-0108)		
01 45 23 00-0110	EA		Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	85.90	
01 45 23 00-0111	EA		Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	515.42	
01 45 23 00-0112	EA		Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	25.92	
01 45 23 00-0113	EA		Testing For The Presence Of PCBs In Caulk, Analysis Per Sample	107.42	
01 45 23 00-0114	EA		Testing For The Presence Of PCBs In Soil, Analysis Per Sample.....	107.42	
01 45 23 00-0115	EA		Testing For The Presence Of PCBs Using Wipe Sampling, Analysis Per Sample	107.42	
01 45 23 00-0116	EA		Testing For The Presence Of PCBs In Air, Analysis Per Sample	590.81	
01 45 23 00-0117			Nondestructive Field Testing Services (01 45 23 00-0108)		
01 45 23 00-0118			Infrared Thermography (01 45 23 00-0117) Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0119			Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0118) Note: For on the roof surveys.		
01 45 23 00-0120	EA		Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	1,800.00	
01 45 23 00-0121	CSF		Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	3.00	
			For CADD Drawings, Add	0.60	
01 45 23 00-0122	CSF		>10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	2.00	
			For CADD Drawings, Add	0.40	
01 45 23 00-0123	CSF		>50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	1.50	
			For CADD Drawings, Add	0.30	
			For Elevated Infrared Thermography Roof Investigation, Add	0.38	
			For Aerial Infrared Thermography Roof Investigation, Add	0.38	
01 45 23 00-0124	CSF		>250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	1.00	
			For CADD Drawings, Add	0.20	
			For Elevated Infrared Thermography Roof Investigation, Add	0.25	
			For Aerial Infrared Thermography Roof Investigation, Add	0.25	
01 45 23 00-0125			Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0118) Note: For finding moisture in walls and windows.		
01 45 23 00-0126	EA		Building Moisture Investigation Using Infrared Thermography, Mobilization Charge	950.00	
01 45 23 00-0127	CSF		Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography	3.00	
			For Digital Or Analog Recording Of All Items, Add	1.50	
01 45 23 00-0128	CSF		>1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography	2.00	
			For Digital Or Analog Recording Of All Items, Add	1.00	
01 45 23 00-0129	CSF		>5,000 SF, Building Moisture Investigation Using Infrared Thermography	1.00	
			For Digital Or Analog Recording Of All Items, Add	0.50	
01 45 23 00-0130			General Building Investigation Using Infrared Thermography (01 45 23 00-0118) Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0131	EA		General Building Investigation Using Infrared Thermography, Mobilization Charge	1,950.00	
01 45 23 00-0132	CSF		Up To 1,000 SF, General Building Investigation Using Infrared Thermography	3.00	
			For Digital Or Analog Recording Of All Items, Add	1.50	
01 45 23 00-0133	CSF		>1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography	2.00	
			For Digital Or Analog Recording Of All Items, Add	1.00	
01 45 23 00-0134	CSF		>5,000 SF, General Building Investigation Using Infrared Thermography	1.00	
			For Digital Or Analog Recording Of All Items, Add	0.50	
01 45 23 00-0135			Electrical /Mechanical Equipment Scanning Using Infrared Thermography (01 45 23 00-0118) Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0136	EA		Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge	950.00	
01 45 23 00-0137	HR		Electrical /Mechanical Equipment Scanning Using Infrared Thermography	162.15	
			For Digital Or Analog Recording Of All Items, Add	23.99	
01 45 23 00-0138			Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0118) Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0139	EA		Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	950.00	
01 45 23 00-0140	CSF		Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	3.00	
			For Digital Or Analog Recording Of All Items, Add	0.45	
01 45 23 00-0141	CSF		>50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	2.00	
			For Digital Or Analog Recording Of All Items, Add	0.30	
01 45 23 00-0142			Other Nondestructive Field Testing Services (01 45 23 00-0117)		
01 45 23 00-0143	HR		ASNT Certified Level I NDT Consultant	68.10	
01 45 23 00-0144	HR		ASNT Certified Level II NDT Consultant	69.82	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 45 23 00-0145	HR	ASNT Certified Level III NDT Consultant.....	98.08	
01 45 23 00-0146	HR	Certified Industrial Radiography Radiation Safety Personnel	37.35	

01 45 23 00-0147 Testing Professional Services (01 45 23 00-0108)

01 45 23 00-0148	HR	Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection	103.06	
01 45 23 00-0149	HR	Laboratory Technician	99.74	
01 45 23 00-0150	HR	Portable Digital Reinforcement Scanner	144.07	
01 45 23 00-0151	HR	Subsurface Detection Radar System	243.80	
01 45 23 00-0152	HR	Pavement Rehabilitation Analysis Using Deflectors.....	277.05	
01 45 23 00-0153	HR	Associate Engineer	144.07	
01 45 23 00-0154	HR	Staff Engineer	132.98	
01 45 23 00-0155	HR	Project Manager.....	127.44	
01 45 23 00-0156	HR	Principal Engineer.....	193.94	
01 45 23 00-0157	HR	Consulting Engineer.....	155.15	

01 50 Temporary Facilities And Controls (01)

Note: Tasks in this section shall be used as directed by owner.

01 51 Temporary Utilities (01 50)**01 51 13 Temporary Electricity** (01 51)**01 51 13 00-0001 Service Switch And/Or Building Feeder Switch** (01 51 13)

Note: Includes fuses.

01 51 13 00-0002	EA	Temporary 30 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	601.17	235.32
01 51 13 00-0003	EA	Temporary 60 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	744.58	312.11
01 51 13 00-0004	EA	Temporary 100 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	1,114.63	341.57
01 51 13 00-0005	EA	Temporary 200 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	1,663.37	531.56
01 51 13 00-0006	EA	Temporary 400 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	3,142.00	882.27
01 51 13 00-0007	EA	Temporary 600 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	5,435.88	1,176.42
01 51 13 00-0008	EA	Temporary 800 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses	7,743.76	1,333.92
01 51 13 00-0009	EA	Temporary 1,200 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses.....	12,583.74	2,032.64
01 51 13 00-0010	EA	Temporary 2,000 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses.....	17,822.47	3,049.06

01 51 13 00-0011 Panelboard Complete With Branch Fuses 120/208V (01 51 13)

Note: Main lug.

01 51 13 00-0012	EA	Temporary 100 Amp Panelboard Complete With Up To 24 Branch Circuits, 120/208 Volt.....	1,235.13	230.96
01 51 13 00-0013	EA	Temporary 200 Amp Panelboard Complete With Up To 42 Branch Circuits, 120/208 Volt.....	1,624.65	423.55
01 51 13 00-0014	EA	Temporary 400 Amp Panelboard Complete With Up To 42 Branch Circuits, 120/208 Volt.....	2,568.97	635.22
01 51 13 00-0015	EA	Temporary 600 Amp Panelboard Complete With Up To 42 Branch Circuits, 120/208 Volt.....	3,498.28	1,058.75

01 51 13 00-0016 Cord Grip Plug (01 51 13)

Note: Includes installation, a maximum of 50' of cord and connection to source.

01 51 13 00-0017	EA	Temporary 2 - Pole Cord Grip Plug With Installation	135.97	63.60
01 51 13 00-0018	EA	Temporary 3 - Pole Cord Grip Plug With Installation	202.63	97.84
01 51 13 00-0019	EA	Temporary 4 - Pole Cord Grip Plug With Installation	261.10	127.00
01 51 13 00-0020	EA	Temporary 3 - Pole (30 A) Cord Grip Plug With Installation.....	199.27	97.84
01 51 13 00-0021	EA	Temporary 4 - Pole (30 A) Cord Grip Plug With Installation.....	255.76	127.00
01 51 13 00-0022	EA	Temporary 3 - Pole (50 A) Cord Grip Plug With Installation.....	217.37	97.84

01 51 26 Temporary Lighting (01 51)**01 51 26 00-0001 Temporary Devices** (01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	146.26	47.43
01 51 26 00-0003	EA	Temporary Light Socket With Branch Wiring Connection And Lamp.....	21.42	9.86
01 51 26 00-0004	EA	Temporary 10 Light String With Cages	56.05	22.30
01 51 26 00-0005	EA	Temporary GFI Device With Enclosure And Branch Wiring.....	157.39	63.60
01 51 26 00-0006	EA	Temporary Trailer Socket With Branch Wiring	62.20	23.03
01 51 26 00-0007	EA	Temporary High Bay Light	213.73	93.39

01 52 Construction Facilities (01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices And Sheds (01 52)**01 52 13 00-0001 Field Offices** (01 52 13)

Note: Excludes furniture, utility connections and service. Minimum 6 months rental.

01 52 13 00-0002	MO	8' x 24' Office, With Toilet	125.40	
		For Each Delivery And Removal, Round Trip, Add	685.18	
		For Each Set-Up (Block And Level), Add	140.96	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
		For Office Trailer Without Toilet, Deduct	-25.08	



General Requirements			01
Temporary Facilities And Controls			01 50
Construction Facilities			01 52

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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
01 52 13 00-0003	MO	8' x 32' Office, With Toilet	142.12	
		For Each Delivery And Removal, Round Trip, Add	685.18	
		For Each Set-Up (Block And Level), Add	140.96	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
		For Office Trailer Without Toilet, Deduct	-28.42	
01 52 13 00-0004	MO	10' x 36' Office, With Toilet	192.28	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
		For Office Trailer Without Toilet, Deduct	-38.46	
01 52 13 00-0005	MO	10' x 40' Office, With Toilet	204.82	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
		For Office Trailer Without Toilet, Deduct	-40.96	
01 52 13 00-0006	MO	10' x 44' Office, With Toilet	225.72	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0007	MO	10' x 50' Office, With Toilet	238.26	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0008	MO	12' x 44' Office, With Toilet	254.69	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0009	MO	12' x 50' Office, With Toilet	280.06	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0010	MO	12' x 60' Office, With Toilet	305.14	
		For Each Delivery And Removal, Round Trip, Add	1,135.95	
		For Each Set-Up (Block And Level), Add	229.99	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0011	MO	24' x 60' Office, With Toilet	668.80	
		For Each Delivery And Removal, Round Trip, Add	2,163.72	
		For Each Set-Up (Block And Level), Add	370.95	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0012	MO	24' x 72' Office, With Toilet	802.55	
		For Each Delivery And Removal, Round Trip, Add	2,163.72	
		For Each Set-Up (Block And Level), Add	370.95	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0013	MO	30' x 30' Office, With Toilet	381.42	
		For Each Delivery And Removal, Round Trip, Add	2,163.72	
		For Each Set-Up (Block And Level), Add	370.95	
		For Each Anchoring Into Dirt, Add	95.00	
		For Each Anchoring Into Asphalt Or Concrete, Add	142.49	
01 52 13 00-0014		Accessories For Field Office Trailers (01 52 13)		
		Note: Costs includes installation or placement in trailer.		
01 52 13 00-0015	MO	Desk For Field Office Trailer	28.59	
01 52 13 00-0016	MO	Rolling Desk Chair For Field Office Trailer	17.87	
01 52 13 00-0017	MO	File Cabinet For Field Office Trailer	21.44	
01 52 13 00-0018	MO	Table For Field Office Trailer	14.29	
01 52 13 00-0019	MO	Folding Chair For Field Office Trailer	6.77	
01 52 13 00-0020	EA	Phone Hook-Up For Field Office Trailer	78.62	
01 52 13 00-0021	MO	Local Phone Service Per Phone Line For Field Office Trailer	50.03	
01 52 13 00-0022	MO	Security System With Monitoring For Field Office Trailer	80.00	
01 52 13 00-0023	LF	Perimeter Trailer Skirting For Field Office Trailer	25.82	
01 52 13 00-0024	LF	Insulated Perimeter Trailer Skirting For Field Office Trailer	46.94	
01 52 13 00-0025	MO	Steps For Field Office Trailer	25.00	
01 52 13 00-0026	MO	Fax Machine For Field Office Trailer	35.74	
01 52 13 00-0027	MO	Copier For Field Office Trailer	57.18	
01 52 13 00-0028		Storage Containers (01 52 13)		
01 52 13 00-0029	MO	8' x 8' x 10' Storage Container	60.64	
		For Delivery And Pick-up Of Container, Add	335.98	
		For >12 Months, Deduct	-18.19	
01 52 13 00-0030	MO	8' x 8' x 20' Storage Container	63.40	
		For Delivery And Pick-up Of Container, Add	335.98	
		For >12 Months, Deduct	-19.02	

01	General Requirements
01 50	Temporary Facilities And Controls
01 52	Construction Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0031 MO 8' x 8' x 40' Storage Container	74.98	
For Delivery And Pick-up Of Container, Add	335.98	
For >12 Months, Deduct	-22.49	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes delivery, set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Toilets, Chemical	36.33	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
01 52 19 00-0003 MO Portable Toilets, Chemical	109.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
01 52 19 00-0004 WK ADA Portable Toilets, Chemical	43.34	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
01 52 19 00-0005 MO ADA Portable Toilets, Chemical	127.17	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
01 52 19 00-0006 WK Two Station Portable Handwash	27.39	
01 52 19 00-0007 MO Two Station Portable Handwash	83.09	
01 52 19 00-0008 MO Portable Toilets, Multi Trailer - 16'	2,509.00	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service Trailer Restrooms, 3 Times Per Week	1,880.88	
01 54 Construction Aids (01 50)		
01 54 23 Temporary Scaffolding And Platforms (01 54)		
01 54 23 00-0001 Scaffolding (01 54 23)		
Note: Additional scaffolding rental for work above the normal working height of 14'.		
01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001)		
Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide x 7' Long Sections (CCF / Month)	20.84	
For Up To 25, Add	8.34	
For >25 To 50, Add	5.21	
For >50 To 150, Add	2.08	
01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide x 7' Long Sections (CCF / Month)	23.44	
For Up To 25, Add	9.38	
For >25 To 50, Add	5.86	
For >50 To 150, Add	2.34	
01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide x 7' Long Sections (CCF / Month)	31.26	
For Up To 25, Add	12.50	
For >25 To 50, Add	7.82	
For >50 To 150, Add	3.13	
01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)		
Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.		
01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	42.19	
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	52.75	
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	63.29	
01 54 23 00-0010 CCF >60' To 80' Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	69.62	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	80.17	
01 54 23 00-0012 Rolling Scaffolding (01 54 23)		
Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0013 DAY Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	10.15	
01 54 23 00-0014 WK Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	40.69	
01 54 23 00-0015 MO Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	162.74	
01 54 23 00-0016 DAY Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	17.00	
01 54 23 00-0017 WK Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	68.08	
01 54 23 00-0018 MO Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	272.36	
01 54 23 00-0019 EA Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >14' To 20'	90.18	
01 54 23 00-0020 EA Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >20' To 40'	112.73	
01 54 26 Temporary Swing Staging (01 54)		
Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001 Swing Stage (01 54 26)		
Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002 MO 7' Swing Stage, Electric Operated	1,502.82	
01 54 26 00-0003 MO 24' Swing Stage, Manually Operated	541.69	
01 54 26 00-0004 EA Swing Stage Erection And Dismantling	417.18	
Note: Includes both erection and dismantling of swing stage.		
01 54 26 00-0005 EA Move Swing Stage To Different Roof At Same Site	196.99	



General Requirements			01
Temporary Facilities And Controls			01 50
Construction Aids			01 54

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 26 00-0006 EA Move Swing Stage To Different Location At Same Roof	90.92	
01 54 29 Temporary Sidewalk Protection (01 54)		
01 54 29 00-0001 Sidewalk Bridge (01 54 29)		
01 54 29 00-0002 Installation of Sidewalk Bridge (01 54 29 00-0001)		
01 54 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	71.73	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	6.00	
For Each Additional Foot Over 8' Wide, Add	3.00	
For Each Additional Foot Over 8' High, Add	2.00	
01 54 29 00-0004 LF Installation of Netting for Sidewalk Bridge	3.44	
01 54 29 00-0005 Monthly Rental of Sidewalk Bridge (01 54 29 00-0001)		
01 54 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	5.36	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	0.80	
01 54 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	6.03	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	0.90	
01 54 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	6.70	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.01	
01 54 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	6.70	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.01	
01 54 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	7.37	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.11	
01 54 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	8.71	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.31	
01 54 29 00-0012 LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	8.04	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.21	
01 54 29 00-0013 LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	9.38	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.41	
01 54 29 00-0014 LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	10.05	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.51	
01 54 29 00-0015 LF Monthly Rental of Netting for Sidewalk Bridge	1.00	
01 54 29 00-0016 Removal of Sidewalk Bridge (01 54 29 00-0001)		
01 54 29 00-0017 LF Removal of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	28.10	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	2.50	
For Each Additional Foot Over 8' Wide, Add	1.25	
For Each Additional Foot Over 8' High, Add	0.75	
01 54 29 00-0018 LF Removal of Netting for Sidewalk Bridge	1.72	
01 55 Vehicular Access And Parking (01 50)		
01 55 23 Temporary Roads (01 55)		
01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23)		
Note: As per Caltrans detail.		
01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	2.97	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	3.78	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004 Rumble Trench Plate (01 55 23)		
01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental	200.72	
01 55 23 00-0006 EA Place And Remove Rumble Plate	73.79	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		

01	General Requirements
01 50	Temporary Facilities And Controls
01 55	Vehicular Access And Parking



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 23 00-0007	EA	Relocate And Adjust Location Of Rumble Plate..... Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	18.45	
01 55 26 Traffic Control (01 55)				
01 55 26 00-0001		Removable Preformed Traffic Black Line Mask (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask.....	4.16	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask.....	5.05	
01 55 26 00-0004		Temporary Preformed Traffic Line Tape (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0005	LF	4" Reflective Removable Traffic Line Tape.....	3.20	
01 55 26 00-0006	LF	6" Reflective Removable Traffic Line Tape.....	4.21	
01 55 26 00-0007	LF	8" Reflective Removable Traffic Line Tape.....	5.16	
01 55 26 00-0008		Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0009	LF	4" Temporary Painted Traffic Lines.....	2.81	
		<i>For Not Removed, Deduct</i>	-2.34	
01 55 26 00-0010	LF	6" Temporary Painted Traffic Lines.....	3.76	
		<i>For Not Removed, Deduct</i>	-3.18	
01 55 26 00-0011	LF	8" Temporary Painted Traffic Lines.....	4.73	
		<i>For Not Removed, Deduct</i>	-4.04	
01 55 26 00-0012	EA	2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.07	
01 55 26 00-0013	EA	2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.08	
01 55 26 00-0014		Pedestrian Traffic Control (01 55 26)		
01 55 26 00-0015	CLF	1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	10.89	
01 55 26 00-0016	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange.....	14.78	
01 55 26 00-0017	CLF	3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	7.76	
01 55 26 00-0018	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	9.76	
01 55 26 00-0019	CLF	3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	10.99	
01 55 26 00-0020	CLF	6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	15.97	
01 55 26 00-0021	CLF	1" Exterior Vinyl Tape (Warning Tape).....	13.58	
01 55 26 00-0022	CLF	2" Exterior Vinyl Tape (Warning Tape).....	19.88	
01 55 26 00-0023	CLF	3" Exterior Vinyl Tape (Warning Tape).....	25.99	
01 55 26 00-0024	CLF	4" Exterior Vinyl Tape (Warning Tape).....	30.47	
01 55 26 00-0025		Traffic Protection (01 55 26)		
01 55 26 00-0026		Portable Traffic Control Device Usage (01 55 26 00-0025) Note: Excludes placing and removing devices.		
01 55 26 00-0027	DAY	28" Cone With Reflective Collar.....	0.43	
01 55 26 00-0028	WK	28" Cone With Reflective Collar.....	1.29	
01 55 26 00-0029	MO	28" Cone With Reflective Collar.....	3.88	
01 55 26 00-0030	DAY	Vertical Panel.....	1.30	
01 55 26 00-0031	WK	Vertical Panel.....	3.90	
01 55 26 00-0032	MO	Vertical Panel.....	11.71	
01 55 26 00-0033	DAY	Channelizer Drum.....	1.41	
01 55 26 00-0034	WK	Channelizer Drum.....	4.24	
01 55 26 00-0035	MO	Channelizer Drum.....	12.72	
01 55 26 00-0036	DAY	Stackable Channelizer Panel.....	0.67	
01 55 26 00-0037	WK	Stackable Channelizer Panel.....	2.00	
01 55 26 00-0038	MO	Stackable Channelizer Panel.....	6.01	
01 55 26 00-0039	DAY	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	0.93	
01 55 26 00-0040	WK	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	2.78	
01 55 26 00-0041	MO	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	8.33	
01 55 26 00-0042	DAY	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	2.05	
01 55 26 00-0043	WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	6.15	
01 55 26 00-0044	MO	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	18.46	
01 55 26 00-0045	DAY	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	2.34	
01 55 26 00-0046	WK	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	7.01	
01 55 26 00-0047	MO	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	21.04	
01 55 26 00-0048	DAY	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	4.28	
01 55 26 00-0049	WK	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	12.83	
01 55 26 00-0050	MO	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	38.48	
01 55 26 00-0051	DAY	Up To 10' Wide A Frame Barricade.....	2.35	
01 55 26 00-0052	WK	Up To 10' Wide A Frame Barricade.....	7.04	
01 55 26 00-0053	MO	Up To 10' Wide A Frame Barricade.....	21.11	
01 55 26 00-0054	DAY	Type A Or C Flasher.....	0.48	
01 55 26 00-0055	WK	Type A Or C Flasher.....	1.43	
01 55 26 00-0056	MO	Type A Or C Flasher.....	4.30	
01 55 26 00-0057	DAY	Type B Flasher (High Intensity).....	2.59	
01 55 26 00-0058	WK	Type B Flasher (High Intensity).....	7.78	
01 55 26 00-0059	MO	Type B Flasher (High Intensity).....	23.33	



General Requirements			01
Temporary Facilities And Controls			01 50
Vehicular Access And Parking			01 55

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 55 26 00-0060

Traffic Barriers Usage (01 55 26 00-0025)

Note: Excludes placing and removing devices.

01 55 26 00-0061	DAY	6' Long Portable Parking Curbs	1.12
01 55 26 00-0062	WK	6' Long Portable Parking Curbs	3.35
01 55 26 00-0063	MO	6' Long Portable Parking Curbs	10.05
01 55 26 00-0064	DAY	6' Long Portable Speed Bumps	3.30
01 55 26 00-0065	WK	6' Long Portable Speed Bumps	9.91
01 55 26 00-0066	MO	6' Long Portable Speed Bumps	29.74
01 55 26 00-0067	DAY	Up To 12.5' Concrete Traffic Barrier	7.94
01 55 26 00-0068	WK	Up To 12.5' Concrete Traffic Barrier	23.82
01 55 26 00-0069	MO	Up To 12.5' Concrete Traffic Barrier	71.46
01 55 26 00-0070	DAY	>12.5' To 20' Concrete Traffic Barrier	15.88
01 55 26 00-0071	WK	>12.5' To 20' Concrete Traffic Barrier	47.64
01 55 26 00-0072	MO	>12.5' To 20' Concrete Traffic Barrier	142.92
01 55 26 00-0073	DAY	6' x 32" Tall Plastic Water Barrier	9.48
01 55 26 00-0074	WK	6' x 32" Tall Plastic Water Barrier	28.44
01 55 26 00-0075	MO	6' x 32" Tall Plastic Water Barrier	85.33
01 55 26 00-0076	DAY	6' x 46" Tall Plastic Water Barrier	13.54
01 55 26 00-0077	WK	6' x 46" Tall Plastic Water Barrier	40.62
01 55 26 00-0078	MO	6' x 46" Tall Plastic Water Barrier	121.85
01 55 26 00-0079	DAY	Sand Filled Crash Attenuator Barrels	5.30
01 55 26 00-0080	WK	Sand Filled Crash Attenuator Barrels	15.90
01 55 26 00-0081	MO	Sand Filled Crash Attenuator Barrels	47.69

01 55 26 00-0082

Portable Signs And Message Displays Usage (01 55 26 00-0025)

Note: Excludes placing and removing devices.

01 55 26 00-0083	DAY	Mesh Or Vinyl Roll-up Sign With Stand	4.16
01 55 26 00-0084	WK	Mesh Or Vinyl Roll-up Sign With Stand	12.48
01 55 26 00-0085	MO	Mesh Or Vinyl Roll-up Sign With Stand	37.44
01 55 26 00-0086	DAY	Aluminum Sign And Post	2.35
01 55 26 00-0087	WK	Aluminum Sign And Post	7.06
01 55 26 00-0088	MO	Aluminum Sign And Post	21.18
01 55 26 00-0089	DAY	Aluminum Sign And A Frame Stand	3.15
01 55 26 00-0090	WK	Aluminum Sign And A Frame Stand	9.44
01 55 26 00-0091	MO	Aluminum Sign And A Frame Stand	28.31
01 55 26 00-0092	DAY	Trailer Mounted Flashing Arrow Board	47.99
01 55 26 00-0093	WK	Trailer Mounted Flashing Arrow Board	143.98
01 55 26 00-0094	MO	Trailer Mounted Flashing Arrow Board	431.95
01 55 26 00-0095	DAY	Trailer Mounted Portable Variable Message Sign (PVMS)	183.00
01 55 26 00-0096	WK	Trailer Mounted Portable Variable Message Sign (PVMS)	549.00
01 55 26 00-0097	MO	Trailer Mounted Portable Variable Message Sign (PVMS)	1,647.00
01 55 26 00-0098	DAY	Two Head, Trailer Mounted Traffic Signal (Set Of Two)	700.00
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.			
01 55 26 00-0099	WK	Two Head, Trailer Mounted Traffic Signal (Set Of Two)	2,100.00
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.			
01 55 26 00-0100	MO	Two Head, Trailer Mounted Traffic Signal (Set Of Two)	6,300.00
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.			

01 55 26 00-0101

Place And Remove Traffic Protection Using Truck (01 55 26 00-0025)

Note: Includes delivery and return up to 15 miles.

01 55 26 00-0102	EA	Place And Remove Up To 250 Cones Using Truck	3.64
01 55 26 00-0103	EA	Place And Remove >250 Cones Using Truck	2.91
01 55 26 00-0104	EA	Place And Remove Up To 250 Panels/Channelizers Using Truck	4.85
01 55 26 00-0105	EA	Place And Remove >250 Panels/Channelizers Using Truck	3.88
01 55 26 00-0106	EA	Place And Remove Up To 250 Barricades Using Truck	7.28
01 55 26 00-0107	EA	Place And Remove >250 Barricades Using Truck	5.83
01 55 26 00-0108	EA	Place And Remove Curbs/Speed Bumps Using Truck	7.28
01 55 26 00-0109	EA	Place And Remove Portable Sign And Stand Using Truck	4.37
01 55 26 00-0110	EA	Place And Remove Aluminum Sign And Post Using Truck	18.19
01 55 26 00-0111	EA	Place And Remove Trailer Mounted Boards And Signals Using Truck	54.58
01 55 26 00-0112	EA	Place And Remove Up To 12.5' Concrete Traffic Barrier	73.79
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.			
For 1 Barrier, Add			184.48
For 2 Barriers, Add			66.41
For 3 Barriers, Add			22.14
01 55 26 00-0113	EA	Place And Remove >12.5' Concrete Traffic Barrier	110.69
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.			
For 1 Barrier, Add			276.73
For 2 Barriers, Add			99.62
For 3 Barriers, Add			33.21

01 General Requirements**01 50 Temporary Facilities And Controls****01 55 Vehicular Access And Parking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0114 EA Place And Remove Plastic Water Barrier .....38.41 Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks. For 1 Barrier, Add 92.25 For 2 Barriers, Add 33.21 For 3 Barriers, Add 11.07		
01 55 26 00-0115 EA Place And Remove Crash Attenuator Barrels.....55.35 Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks. For 1 Barrier, Add 138.38 For 2 Barriers, Add 49.82 For 3 Barriers, Add 16.61		
01 55 26 00-0116 Place And Remove Traffic Protection From Roadside (Daily) (01 55 26 00-0025)		
01 55 26 00-0117 EA Place And Remove Up To 250 Cones By Hand From Roadside .....1.82		
01 55 26 00-0118 EA Place And Remove >250 Cones By Hand From Roadside.....1.46		
01 55 26 00-0119 EA Place And Remove Up To 250 Panels/Channelizers By Hand From Roadside.....2.43		
01 55 26 00-0120 EA Place And Remove >250 Panels/Channelizers By Hand From Roadside .....1.93		
01 55 26 00-0121 EA Place And Remove Up To 250 Barricades By Hand From Roadside .....3.64		
01 55 26 00-0122 EA Place And Remove >250 Barricades By Hand From Roadside .....2.91		
01 55 26 00-0123 EA Place And Remove Portable Sign And Stand From Roadside.....2.29		
01 55 26 00-0124 EA Place And Remove Trailer Mounted Boards And Signals From Roadside .....27.28		
01 55 26 00-0125 EA Roadside Relocation Of Concrete Traffic Barrier .....36.90 Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 56 Temporary Barriers And Enclosures (01 50) Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers (01 56)		
01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)		
01 56 16 00-0002 SF 6 Mil Plastic Sheeting, Applied To Floors.....0.29		
01 56 16 00-0003 SF 6 Mil Plastic Sheeting, Applied To Walls.....0.38		
01 56 16 00-0004 SF 6 Mil Plastic Sheeting, Applied To Ceilings.....0.51		
01 56 16 00-0005 SF 10 Mil Plastic Sheeting Applied To Scaffolding .....0.60		
01 56 16 00-0006 SF 6 Mil Plastic Anti Static And Fire And Flame Retardant Sheeting, Applied To Floors .....0.34		
01 56 16 00-0007 SF 6 Mil Plastic Anti Static And Fire And Flame Retardant Sheeting, Applied To Walls .....0.43		
01 56 16 00-0008 SF 6 Mil Plastic Anti Static And Fire And Flame Retardant Sheeting, Applied To Ceilings .....0.56		
01 56 16 00-0009 SF Burlap, Applied To Floors .....0.58		
01 56 16 00-0010 EA 7' Zipper Door For Plastic Sheeting .....16.89		
01 56 16 00-0011 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....5.70 Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0012 EA Up To 1 SF Individual Critical Barriers.....9.15 Note: For Outlets And Receptacles		
01 56 16 00-0013 EA >1 To 4 SF Individual Critical Barriers .....13.83 Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0014 EA >4 To 8 SF Individual Critical Barriers .....18.55 Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0015 EA >8 To 32 SF Individual Critical Barriers.....28.64 Note: For doors, windows, etc.		
01 56 16 00-0016 Temporary Stud Wall (01 56 16)		
01 56 16 00-0017 Temporary Stud Wall With Drywall (01 56 16 00-0016) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0018 Temporary Stud Wall With Drywall (01 56 16 00-0017)		
01 56 16 00-0019 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....4.97 For Metal Studs 24" On Center, Add 0.23		
01 56 16 00-0020 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....4.97 For Metal Studs 24" On Center, Add 0.23		
01 56 16 00-0021 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....5.05 For Metal Studs 24" On Center, Add 0.23		
01 56 16 00-0022 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....6.87 For Metal Studs 24" On Center, Add 0.31		
01 56 16 00-0023 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....6.87 For Metal Studs 24" On Center, Add 0.31		
01 56 16 00-0024 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center .....7.05 For Metal Studs 24" On Center, Add 0.31		
01 56 16 00-0025 Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0017)		
01 56 16 00-0026 SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....5.06 For Metal Studs 24" On Center, Add 0.23		
01 56 16 00-0027 SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center .....5.09 For Metal Studs 24" On Center, Add 0.23		
01 56 16 00-0028 SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....5.04 For Metal Studs 24" On Center, Add 0.23		



General Requirements			01
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0029	SF		3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.70	
			Center.....	0.23	
			For Metal Studs 24" On Center, Add		
01 56 16 00-0030	SF		1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.07	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0031	SF		5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.13	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0032	SF		5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.03	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0033	SF		3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.34	
			Center.....	0.31	
			For Metal Studs 24" On Center, Add		
01 56 16 00-0034			Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0016)		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0035	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.88	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0036	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.92	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0037	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.03	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0038	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.10	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0039	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	6.70	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0040	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	6.78	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0041	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.01	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0042	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.14	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0043			Temporary Stud Wall With BC Plywood (01 56 16 00-0016)		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0044	SF		3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.15	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0045	SF		1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.30	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0046	SF		5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.47	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0047	SF		3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.59	
			For Metal Studs 24" On Center, Add	0.23	
01 56 16 00-0048	SF		3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.25	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0049	SF		1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.55	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0050	SF		5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.88	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0051	SF		3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.13	
			For Metal Studs 24" On Center, Add	0.31	
01 56 16 00-0052			Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0016)		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use. Excludes paint.		
01 56 16 00-0053	SF		6 Mil Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	2.86	
01 56 16 00-0054			Temporary Doors (01 56 16 00-0016)		
			Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0055	EA		Temporary Metal Door And Frame.....	458.51	
			Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.		
01 56 16 00-0056			Temporary Floor Protection (01 56 16)		
01 56 16 00-0057	SF		Masonite For Temporary Floor Protection.....	1.47	
01 56 16 00-0058	SF		1/2" Plywood For Temporary Floor Protection.....	1.55	
01 56 16 00-0059	SF		3/4" Plywood For Temporary Floor Protection.....	1.89	
01 56 16 00-0060			Sticky Mats (01 56 16)		
01 56 16 00-0061	EA		18" x 36", 30 Layer Sticky Mat.....	20.17	
			For 60 Layers Instead Of 30, Add	12.42	
01 56 16 00-0062	EA		18" x 46", 30 Layer Sticky Mat.....	22.93	
			For 60 Layers Instead Of 30, Add	14.49	
01 56 16 00-0063	EA		24" x 36", 30 Layer Sticky Mat.....	22.93	
			For 60 Layers Instead Of 30, Add	14.49	
01 56 16 00-0064	EA		25" x 45", 30 Layer Sticky Mat.....	29.83	
			For 60 Layers Instead Of 30, Add	19.67	

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0065 EA 36" x 36", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	32.59 21.74	
01 56 16 00-0066 EA 36" x 46", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	35.35 23.81	
01 56 16 00-0067 EA 36" x 60", 30 Layer Sticky Mat <i>For 60 Layers Instead Of 30, Add</i>	69.85 49.68	
01 56 16 00-0068 EA 36" x 72", 30 Layer Sticky Mat	83.10	
01 56 26 Temporary Fencing (01 56)		
01 56 26 00-0001 Temporary Fencing (01 56 26) Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	3.15 -0.16 -0.32 -0.47 1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	3.56 -0.18 -0.36 -0.53 2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	6.01 -0.30 -0.60 -0.90 3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	17.88 -0.89 -1.79 -2.68 4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	3.48 -0.17 -0.35 -0.52 1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	3.91 -0.20 -0.39 -0.59 2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	6.61 -0.33 -0.66 -0.99 3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	19.66 -0.98 -1.97 -2.95 4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	3.83 -0.19 -0.38 -0.57 1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	4.31 -0.22 -0.43 -0.65 2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	7.28 -0.36 -0.73 -1.09 3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Shade Cloth, Add</i>	21.63 -1.08 -2.16 -3.24 4.75	



General Requirements			01
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	4.21	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.42	
For >500, Deduct	-0.63	
For Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	4.72	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.71	
For Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	7.99	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.80	
For >500, Deduct	-1.20	
For Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	23.78	
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-3.57	
For Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	200.98	
For Shade Cloth, Add	15.01	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	312.64	
For Shade Cloth, Add	37.52	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	357.30	
For Shade Cloth, Add	45.02	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	401.96	
For Shade Cloth, Add	56.28	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	491.28	
For Shade Cloth, Add	75.03	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	535.97	
For Shade Cloth, Add	90.04	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	210.12	
For Shade Cloth, Add	23.92	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	326.84	
For Shade Cloth, Add	59.79	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	373.53	
For Shade Cloth, Add	71.75	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	420.25	
For Shade Cloth, Add	89.69	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	513.62	
For Shade Cloth, Add	119.58	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	560.31	
For Shade Cloth, Add	143.50	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	231.13	
For Shade Cloth, Add	33.77	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	359.54	
For Shade Cloth, Add	84.41	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	410.90	
For Shade Cloth, Add	101.30	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	462.26	
For Shade Cloth, Add	126.62	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	564.99	
For Shade Cloth, Add	168.83	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	616.35	
For Shade Cloth, Add	202.59	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	288.91	
For Shade Cloth, Add	44.55	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	449.42	
For Shade Cloth, Add	111.38	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	513.62	
For Shade Cloth, Add	133.65	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	577.83	
For Shade Cloth, Add	167.07	

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0051	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	706.23	
		<i>For Shade Cloth, Add</i>	222.76	
01 56 26 00-0052	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	770.43	
		<i>For Shade Cloth, Add</i>	267.31	
01 56 26 00-0053		Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054		4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	211.03	
		<i>For Shade Cloth, Add</i>	15.01	
01 56 26 00-0056	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	328.27	
		<i>For Shade Cloth, Add</i>	37.52	
01 56 26 00-0057	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	375.17	
		<i>For Shade Cloth, Add</i>	45.02	
01 56 26 00-0058	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	422.06	
		<i>For Shade Cloth, Add</i>	56.28	
01 56 26 00-0059	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	515.84	
		<i>For Shade Cloth, Add</i>	75.03	
01 56 26 00-0060	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	562.76	
		<i>For Shade Cloth, Add</i>	90.04	
01 56 26 00-0061		6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	220.63	
		<i>For Shade Cloth, Add</i>	23.92	
01 56 26 00-0063	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	343.19	
		<i>For Shade Cloth, Add</i>	59.79	
01 56 26 00-0064	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	392.21	
		<i>For Shade Cloth, Add</i>	71.75	
01 56 26 00-0065	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	441.26	
		<i>For Shade Cloth, Add</i>	89.69	
01 56 26 00-0066	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	539.30	
		<i>For Shade Cloth, Add</i>	119.58	
01 56 26 00-0067	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	588.33	
		<i>For Shade Cloth, Add</i>	143.50	
01 56 26 00-0068		8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	242.69	
		<i>For Shade Cloth, Add</i>	33.77	
01 56 26 00-0070	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	377.51	
		<i>For Shade Cloth, Add</i>	84.41	
01 56 26 00-0071	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	431.44	
		<i>For Shade Cloth, Add</i>	101.30	
01 56 26 00-0072	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	485.37	
		<i>For Shade Cloth, Add</i>	126.62	
01 56 26 00-0073	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	593.23	
		<i>For Shade Cloth, Add</i>	168.83	
01 56 26 00-0074	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	647.16	
		<i>For Shade Cloth, Add</i>	202.59	
01 56 26 00-0075		10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	303.36	
		<i>For Shade Cloth, Add</i>	44.55	
01 56 26 00-0077	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	471.89	
		<i>For Shade Cloth, Add</i>	111.38	
01 56 26 00-0078	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	539.30	
		<i>For Shade Cloth, Add</i>	133.65	
01 56 26 00-0079	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	606.72	
		<i>For Shade Cloth, Add</i>	167.07	
01 56 26 00-0080	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	741.54	
		<i>For Shade Cloth, Add</i>	222.76	
01 56 26 00-0081	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	808.96	
		<i>For Shade Cloth, Add</i>	267.31	
01 56 26 00-0082		Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083		4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	221.58	
		<i>For Shade Cloth, Add</i>	15.01	
01 56 26 00-0085	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	344.69	
		<i>For Shade Cloth, Add</i>	37.52	
01 56 26 00-0086	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	393.93	
		<i>For Shade Cloth, Add</i>	45.02	
01 56 26 00-0087	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	443.16	
		<i>For Shade Cloth, Add</i>	56.28	
01 56 26 00-0088	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	541.64	
		<i>For Shade Cloth, Add</i>	75.03	
01 56 26 00-0089	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	590.90	
		<i>For Shade Cloth, Add</i>	90.04	



General Requirements			01
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0090			6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	231.66		
		For Shade Cloth, Add	23.92		
01 56 26 00-0092	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	360.35		
		For Shade Cloth, Add	59.79		
01 56 26 00-0093	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	411.82		
		For Shade Cloth, Add	71.75		
01 56 26 00-0094	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	463.32		
		For Shade Cloth, Add	89.69		
01 56 26 00-0095	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	566.27		
		For Shade Cloth, Add	119.58		
01 56 26 00-0096	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	617.74		
		For Shade Cloth, Add	143.50		
01 56 26 00-0097			8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	254.82		
		For Shade Cloth, Add	33.77		
01 56 26 00-0099	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	396.39		
		For Shade Cloth, Add	84.41		
01 56 26 00-0100	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	453.02		
		For Shade Cloth, Add	101.30		
01 56 26 00-0101	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	509.64		
		For Shade Cloth, Add	126.62		
01 56 26 00-0102	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	622.90		
		For Shade Cloth, Add	168.83		
01 56 26 00-0103	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	679.52		
		For Shade Cloth, Add	202.59		
01 56 26 00-0104			10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	318.53		
		For Shade Cloth, Add	44.55		
01 56 26 00-0106	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	495.49		
		For Shade Cloth, Add	111.38		
01 56 26 00-0107	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	566.27		
		For Shade Cloth, Add	133.65		
01 56 26 00-0108	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	637.05		
		For Shade Cloth, Add	167.07		
01 56 26 00-0109	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	778.62		
		For Shade Cloth, Add	222.76		
01 56 26 00-0110	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	849.40		
		For Shade Cloth, Add	267.31		
01 56 26 00-0111			Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112			4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	232.13		
		For Shade Cloth, Add	15.01		
01 56 26 00-0114	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	361.10		
		For Shade Cloth, Add	37.52		
01 56 26 00-0115	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	412.68		
		For Shade Cloth, Add	45.02		
01 56 26 00-0116	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	464.27		
		For Shade Cloth, Add	56.28		
01 56 26 00-0117	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	567.43		
		For Shade Cloth, Add	75.03		
01 56 26 00-0118	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	619.04		
		For Shade Cloth, Add	90.04		
01 56 26 00-0119			6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	242.69		
		For Shade Cloth, Add	23.92		
01 56 26 00-0121	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	377.50		
		For Shade Cloth, Add	59.79		
01 56 26 00-0122	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	431.43		
		For Shade Cloth, Add	71.75		
01 56 26 00-0123	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	485.38		
		For Shade Cloth, Add	89.69		
01 56 26 00-0124	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	593.23		
		For Shade Cloth, Add	119.58		
01 56 26 00-0125	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	647.16		
		For Shade Cloth, Add	143.50		
01 56 26 00-0126			8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	266.96		
		For Shade Cloth, Add	33.77		

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....415.26 For Shade Cloth, Add 84.41		
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....474.59 For Shade Cloth, Add 101.30		
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....533.91 For Shade Cloth, Add 126.62		
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....652.56 For Shade Cloth, Add 168.83		
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....711.88 For Shade Cloth, Add 202.59		
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....333.69 For Shade Cloth, Add 44.55		
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....519.08 For Shade Cloth, Add 111.38		
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....593.23 For Shade Cloth, Add 133.65		
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....667.39 For Shade Cloth, Add 167.07		
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....815.70 For Shade Cloth, Add 222.76		
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....889.85 For Shade Cloth, Add 267.31		
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001) Note: Includes set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months .....3.78 For >100 To 250, Deduct -0.19 For >250 To 500, Deduct -0.38 For >500, Deduct -0.57 For Shade Cloth, Add 1.60		
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months .....4.23 For >100 To 250, Deduct -0.21 For >250 To 500, Deduct -0.42 For >500, Deduct -0.63 For Shade Cloth, Add 2.55		
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months .....6.82 For >100 To 250, Deduct -0.34 For >250 To 500, Deduct -0.68 For >500, Deduct -1.02 For Shade Cloth, Add 3.60		
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months .....4.10 For >100 To 250, Deduct -0.21 For >250 To 500, Deduct -0.41 For >500, Deduct -0.62 For Shade Cloth, Add 1.60		
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months .....4.58 For >100 To 250, Deduct -0.23 For >250 To 500, Deduct -0.46 For >500, Deduct -0.69 For Shade Cloth, Add 2.55		
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months .....7.42 For >100 To 250, Deduct -0.37 For >250 To 500, Deduct -0.74 For >500, Deduct -1.11 For Shade Cloth, Add 3.60		
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months .....4.42 For >100 To 250, Deduct -0.22 For >250 To 500, Deduct -0.44 For >500, Deduct -0.66 For Shade Cloth, Add 1.60		
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months .....4.99 For >100 To 250, Deduct -0.25 For >250 To 500, Deduct -0.50 For >500, Deduct -0.75 For Shade Cloth, Add 2.55		
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months .....8.09 For >100 To 250, Deduct -0.40 For >250 To 500, Deduct -0.81 For >500, Deduct -1.21 For Shade Cloth, Add 3.60		



General Requirements			01
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0153			Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154	LF		Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	4.83	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.48	
			For >500, Deduct	-0.72	
			For Shade Cloth, Add	1.60	
01 56 26 00-0155	LF		Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	5.39	
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.54	
			For >500, Deduct	-0.81	
			For Shade Cloth, Add	2.55	
01 56 26 00-0156	LF		Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	8.79	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.32	
			For Shade Cloth, Add	3.60	
01 56 26 00-0157			Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158	BAG		Temporary Chain Link Fence Panels (Portable) Sandbag.....	5.57	
			Note: Includes placement and removal.		
01 56 26 00-0159			Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
			Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160			Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161	LF		Relocate Temporary 4' High Chain Link Fence And Posts	2.76	
01 56 26 00-0162	LF		Relocate Temporary 6' High Chain Link Fence And Posts	4.13	
01 56 26 00-0163	LF		Relocate Temporary 8' High Chain Link Fence And Posts	5.96	
01 56 26 00-0164	LF		Relocate Temporary 10' High Chain Link Fence And Posts	7.33	
01 56 26 00-0165			Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166	LF		Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.72	
01 56 26 00-0167	LF		Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	0.86	
01 56 26 00-0168	LF		Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	0.97	
01 56 26 00-0169			Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170	EA		Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	93.80	
01 56 26 00-0171	EA		Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	108.23	
01 56 26 00-0172	EA		Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	133.49	
01 56 26 00-0173	EA		Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	144.31	
01 56 26 00-0174			Temporary Safety Fence (01 56 26)		
			Note: Includes removal after use.		
01 56 26 00-0175	LF		48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	2.46	
01 56 29			Temporary Protective Walkways (01 56)		
01 56 29 00-0001			Temporary Walkways And Railings (01 56 29)		
01 56 29 00-0002	LF		Temporary Wooden Guardrail With Top-Rail With Two Side Rails On 36" High 2 x 4 Posts 18" On Center Attached To Walkway.....	25.66	
			Note: Excludes walkway.		
01 56 29 00-0003	SF		Temporary Walkway With 3/4" Plywood On 2 x 6 Stringers	4.69	
01 56 29 00-0004	RSR		Temporary Stairs On 2 x 12 Stringers (Cost Per Riser).....	16.81	
01 56 29 00-0005			Safety Nets (01 56 29)		
01 56 29 00-0006	SF		Small Mesh Debris Netting	1.39	
			Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33			Temporary Security Barriers (01 56)		
01 56 33 00-0001			Temporary Fiberglass Panels (01 56 33)		
01 56 33 00-0002	SF		Prefabricated Fiberglass Panels.....	1.56	
01 56 33 00-0003			Temporary Safety Guardrail (01 56 33)		
			Note: Includes removal after use.		
01 56 33 00-0004	LF		42" High, Wood Temporary Safety Guardrail.....	25.92	
			Note: Includes 2" x 4" construction, top, middle and bottom horizontal rails, and post boots. For Attachment To A Concrete Substrate, Add	1.13	
01 56 33 00-0005			Board-up Opening With Plywood (01 56 33)		
			Note: For use where directed by owner for boarding up door and window openings.		

01	General Requirements
01 50	Temporary Facilities And Controls
01 56	Temporary Barriers And Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 33 00-0006	OPN	Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	10.82	
01 56 33 00-0007	SF	Board-up Opening With 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	6.32	
01 56 33 00-0008	SF	Board-up Opening With 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	7.33	
01 56 33 00-0009		Street Barricade (01 56 33)		
01 56 33 00-0010	LF	Temporary Street Barricade, Using 12" x 12" Beam As Base With 2" x 4" Top Warning Rail And Sides, Per Month.....	8.13	
01 56 39		Temporary Tree And Plant Protection (01 56)		
01 56 39 00-0001		Temporary Tree Guards (01 56 39)		
		Note: Includes digging holes and removal.		
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	139.84	
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	161.25	
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	174.25	
01 58		Project Identification (01 50)		
		Note: Includes removal after use.		
01 58 13		Temporary Project Signage (01 58)		
01 58 13 00-0001		Project Sign (01 58 13)		
01 58 13 00-0002		MDO Plywood Signs (01 58 13 00-0001)		
		Note: Excludes posts.		
01 58 13 00-0003		Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0004		Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)		
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	101.88	19.84
		For High-Intensity Grade, Add	21.77	
		For Diamond Grade, Add	41.98	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	165.88	20.74
		For High-Intensity Grade, Add	43.53	
		For Diamond Grade, Add	83.96	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	229.87	21.65
		For High-Intensity Grade, Add	65.30	
		For Diamond Grade, Add	125.93	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	293.87	22.55
		For High-Intensity Grade, Add	87.07	
		For Diamond Grade, Add	167.92	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	9.21	0.72
		For High-Intensity Grade, Add	2.72	
		For Diamond Grade, Add	5.24	
01 58 13 00-0010		Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0011		One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	124.07	19.84
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	146.02	20.74
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	179.94	21.65
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	212.00	22.55
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	6.66	0.72
01 58 13 00-0017		Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	126.44	19.84
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	158.82	20.74
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	192.95	21.65
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	223.15	22.55
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	7.00	0.72
01 58 13 00-0023		Fabricate And Install New Posts (01 58 13 00-0001)		
		Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts.....	11.73	
01 58 13 00-0025	LF	4" x 4" Pressure Treated Wood Sign Posts	9.41	
01 58 13 00-0026	LF	4" x 6" Pressure Treated Wood Sign Posts	10.87	
01 58 13 00-0027		Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028	EA	Installation And Removal Of Owner Supplied Project Sign.....	72.16	

01 60 Product Requirements (01)



General Requirements			01
Product Requirements			01 60
Product Storage And Handling Requirements			01 66

01

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 66 Product Storage And Handling Requirements (01 60)**01 66 19 Material Handling** (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories with attic (2-1/2 stories) or less than 125'.

01 66 19 00-0001 Material Handling Between Floors (01 66 19)

01 66 19 00-0002 CY Moving Material Via Stairs, Per CY Of Material Per Floor 7.93
Note: Quantity equals material volume times number of floors traveled.

01 66 19 00-0003 CY Moving Material Via Elevator, Per CY Of Material 4.76
Note: Quantity equals material volume. If more than one elevator is used, the quantity is factored by the number of transfers.

01 66 19 00-0004 Moving Furniture (01 66 19)

Note: To be used when contractor is required to move furniture. Not to be used when the amount of furniture is less than 55% of the total floor space. Moving of furniture which occupies less than 55% of the total floor space is considered as part of the coefficient adjustment factor.

01 66 19 00-0005 SF Removal, Transport, Return And Reinstallation Of Office Furniture 0.90
Note: Includes general, desks, tables, file cabinets (full), chairs, storage boxes, bookshelves, office equipment and computers (per SF of office area). Not to be used when amount of furniture is less than 55% of total floor space.

01 66 19 00-0006 Material Handling For Distances Greater Than 125' (01 66 19)

01 66 19 00-0007 CY Handling Material For Over 125' Per CY Of Material Per 125' 3.76
Note: For delivery, demolition or miscellaneous moving required by owner.

01 66 19 00-0008 Rubbish Handling Between Floors (01 66 19)

Note: Only use with selective demolition tasks to transfer demolished material more than 2-1/2 stories.

01 66 19 00-0009 CY Rubbish Handling Via Stairs, Per CY Of Material Per Floor 7.21
Note: Quantity equals material volume times bulk factor times number of floors traveled.

01 66 19 00-0010 CY Rubbish Handling Via Elevator, Per CY Of Material 4.32
Note: Quantity equals material volume times bulk factor. If more than one elevator is used, the quantity is factored by the number of transfers.

01 70 Execution And Closeout Requirements (01)**01 71 Examination And Preparation** (01 70)**01 71 13 Mobilization** (01 71)**01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization** (01 71 13)

Note: Excludes flagman for traffic control where necessary.

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck 201.32
Note: Includes delivery of equipment, off loading on site, rigging, dismantling, loading and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.

01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed 402.63
Note: Includes delivery of equipment, off loading on site, rigging, dismantling, loading and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with >40' boom lengths, etc.

01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization (01 71 13)

Note: Includes delivery of equipment, off loading on site and rigging. Return includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane 260.40
Note: Includes delivery and pickup.

For >30 To 60 Miles Radius, Add 65.10

For >60 To 100 Miles Radius, Add 104.16

01 71 13 00-0006 EA 20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane 374.98
Note: Includes delivery and pickup.

For >30 To 60 Miles Radius, Add 93.75

For >60 To 100 Miles Radius, Add 149.99

01 71 13 00-0007 EA 40 To 50 Ton Lift Move On/Off Cost, Hydraulic Crane 499.97
Note: Includes delivery and pickup.

For >30 To 60 Miles Radius, Add 124.99

For >60 To 100 Miles Radius, Add 199.99

01 71 13 00-0008 EA 70 To 100 Ton Lift Move On/Off Cost, Hydraulic Crane 812.45
Note: Includes delivery and pickup.

For >30 To 60 Miles Radius, Add 203.11

For >60 To 100 Miles Radius, Add 324.98

01 71 13 00-0009 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane 641.63
Note: Includes delivery and pickup.

For >30 To 60 Miles Radius, Add 160.41

For >60 To 100 Miles Radius, Add 256.65

01	General Requirements
01 70	Execution And Closeout Requirements
01 71	Examination And Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0010 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....1,041.60 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 260.40 For >60 To 100 Miles Radius, Add 416.64		
01 71 13 00-0011 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....1,291.58 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 322.90 For >60 To 100 Miles Radius, Add 516.63		
01 71 13 00-0012 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....1,604.06 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 401.02 For >60 To 100 Miles Radius, Add 641.62		
01 71 13 00-0013 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....2,916.48 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 729.12 For >60 To 100 Miles Radius, Add 1,166.59		
01 71 13 00-0014 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....4,166.40 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 1,041.60 For >60 To 100 Miles Radius, Add 1,666.56		
01 71 13 00-0015 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane .....6,249.60 Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add 1,562.40 For >60 To 100 Miles Radius, Add 2,499.84		

01 71 23 Field Engineering (01 71)**01 71 23 16 Construction Surveying (01 71 23)**

01 71 23 16-0001	Survey Crew (01 71 23 16)	
01 71 23 16-0002	HR 2 Person Survey Crew (Unit Of Measure Is Per Crew Hour Worked) .....210.41 Note: Includes surveyor, rodman, equipment and instruments.	
01 71 23 16-0003	HR 3 Person Survey Crew (Unit Of Measure Is Per Crew Hour Worked) .....286.61 Note: Includes surveyor, rodman, chainman, equipment and instruments.	
01 71 23 16-0004	HR 4 Person Survey Crew (Unit Of Measure Is Per Crew Hour Worked) .....409.95 Note: Includes two surveyors, rodman, chainman, equipment and instruments.	
01 71 23 16-0005	Conventional Topographic Survey (01 71 23 16)	
	Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.	
01 71 23 16-0006	ACR Survey Clear Area With Few To No Obstacles .....782.47	
01 71 23 16-0007	ACR Survey Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings) .....2,248.97	
01 71 23 16-0008	ACR Survey Clear Area With Few Structures, And/Or Wooded (5-25% Buildings) .....3,224.47	
01 71 23 16-0009	ACR Survey Developed Areas With Several Structures (25-65% Buildings) .....4,889.31	
01 71 23 16-0010	ACR Survey Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings) .....6,136.57	
01 71 23 16-0011	Property Lines Survey (01 71 23 16)	
	Note: Not to be added to tasks in the "Conventional Topographic Survey" section.	
01 71 23 16-0012	LF Survey Property Lines On Cleared Land .....1.87	
01 71 23 16-0013	LF Survey Property Lines On Slightly Wooded Land .....2.15	
01 71 23 16-0014	LF Survey Property Lines On Wooded Land .....2.52	
01 71 23 16-0015	Survey Monument (01 71 23 16)	
01 71 23 16-0016	EA 3' Precast Survey Monument .....120.31 For Owner Furnished Monument, Deduct -52.60	
01 71 23 16-0017	EA Precast Survey Monument Box With Cast Iron Frame And Cover .....167.60	
01 71 23 16-0018	EA Riser Ring For Survey Monument .....84.36	
01 71 23 16-0019	EA Adjust Survey Monument Cover To Grade .....52.60	
01 71 23 16-0020	Facade Surveying (01 71 23 16)	
01 71 23 16-0021	LF Facade Survey And Reports (LF Of Facade x Number Of Floors) .....5.12	
01 71 23 16-0022	Utility Survey (01 71 23 16)	
	Note: This survey is only for the location of underground utilities.	
01 71 23 16-0023	ACR Survey Clear Area For Underground Utilities .....4,239.91	

01 71 36 Non-Destructive Concrete Examination (01 71)

01 71 36 00-0001	X-Ray And Electromagnetic Survey (01 71 36)	
	Note: To locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR). Includes printed reports.	
01 71 36 00-0002	X-Ray Or Electromagnetic Survey Minimum Set-Up Charge (01 71 36 00-0001)	



General Requirements			01
Execution And Closeout Requirements			01 70
Examination And Preparation			01 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 36 00-0003	EA		X-Ray Or Electromagnetic Survey Minimum Set-Up Charge..... Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	728.79	
01 71 36 00-0004			X-Ray Survey (01 71 36 00-0001)		
01 71 36 00-0005	EA		X-Ray Survey Up To 2 SF Of Concrete, Masonry Or Asphalt For >8 To 25, Deduct	138.52 -31.25	
01 71 36 00-0006			Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0007	EA		Electromagnetic (SIR/GPR) Survey Up To 4 SF Of Concrete, Masonry Or Asphalt.....	277.05	
01 71 36 00-0008	EA		Electromagnetic (SIR/GPR) Survey >4 To 500 SF Of Concrete, Masonry Or Asphalt	554.10	
01 71 36 00-0009	SF		Electromagnetic (SIR/GPR) Survey >500 SF Of Concrete, Masonry Or Asphalt	1.11	
01 74			Cleaning And Waste Management (01 70)		
01 74 13			Progress Cleaning (01 74) Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001			General (01 74 13)		
01 74 13 00-0002	CSF		Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	18.06	
01 74 13 00-0003	CY		Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed.	21.15	
01 74 16			Site Maintenance (01 74)		
01 74 16 00-0001			Parking Lot, Roads And Pathway Maintenance (01 74 16) Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Do not use these tasks in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002			Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003	MSF		Sweep Parking Lot, With Street Sweeper.....	15.11	
01 74 16 00-0004	MSF		Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	18.13	
01 74 16 00-0005			Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006	MSF		Sweep Runway, With Street Sweep	22.67	
01 74 19			Construction Waste Management And Disposal (01 74) Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001			Debris Chutes (01 74 19) Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002			Steel Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0003	LF		18" Diameter, Steel Temporary Debris Chute.....	25.92	
01 74 19 00-0004	LF		30" Diameter, Steel Temporary Debris Chute.....	38.51	
01 74 19 00-0005			Plastic Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0006	LF		24" Diameter, Plastic Temporary Debris Chute For Steel Liner, Add	10.23 1.92	
01 74 19 00-0007	LF		30" Diameter, Plastic Temporary Debris Chute For Steel Liner, Add	11.72 2.21	
01 74 19 00-0008	LF		36" Diameter, Plastic Temporary Debris Chute For Steel Liner, Add	13.21 2.49	
01 74 19 00-0009			Wood Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0010	LF		4' x 4', Wood Temporary Debris Chute..... Note: Includes fabrication and installation.	19.19	
01 74 19 00-0011			Construction Dumpsters Rental (01 74 19) Note: Includes delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides & pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012	EA		6 CY Dumpster (1 Ton) "Construction Debris"..... Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	263.99 81.00	
01 74 19 00-0013	EA		10 CY Dumpster (1.5 Ton) "Construction Debris"..... Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	391.48 81.00	

01	General Requirements
01 70	Execution And Closeout Requirements
01 74	Cleaning And Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0014 EA 15 CY Dumpster (2 Ton) "Construction Debris".....	512.35	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	81.00	
01 74 19 00-0015 EA 20 CY Dumpster (3 Ton) "Construction Debris".....	488.50	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	81.00	
01 74 19 00-0016 EA 30 CY Dumpster (4 Ton) "Construction Debris".....	579.48	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	81.00	
01 74 19 00-0017 EA 40 CY Dumpster (5 Ton) "Construction Debris".....	630.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	81.00	
01 74 19 00-0018 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only".....	630.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	723.60	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020 EA 15 CY Low-Boy Dumpster Mixed Recyclable.....	777.60	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0021 Concrete Washout Service (01 74 19)		
01 74 19 00-0022 MO Rampless Concrete Washout Bin.....	420.40	
Note: Includes delivery.		
01 74 19 00-0023 MO Ramped Concrete Washout Bin.....	504.48	
Note: Includes delivery.		
01 74 19 00-0024 EA Interim Vacuum Service, Concrete Washout Bin.....	310.98	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0025 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin.....	673.79	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0026 Debris Processing Fee (01 74 19)		
01 74 19 00-0027 Recycler Fees (01 74 19 00-0026)		
Note: Does not apply with use of dumpsters. Excludes hauling.		
01 74 19 00-0028 TRK Drop-Off Mixed Materials At Recycling Center, Concrete And Asphalt, Clean (Semi-Truck Load).....	210.66	
01 74 19 00-0029 TRK Drop-Off Mixed Materials At Recycling Center, Concrete And Asphalt, With Metal And Rebar.....	217.35	
01 74 19 00-0030 Landfill Dump Fees (01 74 19 00-0026)		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0038 for hauling.		
01 74 19 00-0031 CY Traditional Building Construction Materials Landfill Dump Fee.....	19.27	
01 74 19 00-0032 CY Trees, Stumps And Brush, Landfill Dump Fee.....	23.20	
01 74 19 00-0033 CY Rubbish Landfill Dump Fee.....	18.92	
01 74 19 00-0034 CY Hazardous Materials And Rubbish (Paint Cans, Etcetera) Landfill Dump Fee.....	55.33	
01 74 19 00-0035 CY Excavated Dirt Landfill Dump Fee.....	18.56	
01 74 19 00-0036 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....	39.31	
01 74 19 00-0037 TON Traditional Building Construction Materials, Landfill Dump Fee.....	84.00	
01 74 19 00-0038 Hauling (01 74 19)		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0039 CYM Hauling On Paved Roads, First 15 Miles.....	0.65	
01 74 19 00-0040 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.44	
01 74 19 00-0041 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.00	
01 74 19 00-0042 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	0.78	
01 74 23 Final Cleaning (01 74)		
01 74 23 00-0001 Glass (01 74 23)		
01 74 23 00-0002 CSF Clean Existing Glass Surfaces.....	23.52	

END OF SECTION 01



Existing Conditions		02
Assessment		02 20
Existing Material Assessment		02 25

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 Existing Conditions

02 20 Assessment⁽⁰²⁾

02 25 Existing Material Assessment^(02 20)

02 25 16 Existing Concrete, Masonry Or Asphalt Assessment^(02 25)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 40 Demolition And Structure Moving⁽⁰²⁾

02 41 Demolition^(02 40)

02 41 19 Selective Demolition^(02 41)

02 41 19 13 Selective Building Demolition^(02 41 19)

02 41 19 13-0001 Saw Cutting^(02 41 19 13)

Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.

02 41 19 13-0002	LF	Saw Cut Brick Masonry Up To 4" Depth	6.35
		For Each Additional Pass (Depth To 3"), Add	2.48
		For >250, Deduct	-0.61
02 41 19 13-0003	LF	Saw Cut Concrete Block Up To 4" Depth	5.78
		For Each Additional Pass (Depth To 3"), Add	2.25
		For >250, Deduct	-0.56
02 41 19 13-0004	LF	Saw Cut Concrete Slab Up To 4" Depth	2.15
		For Each Additional Pass (Depth To 3"), Add	0.79
		For >250, Deduct	-0.19
02 41 19 13-0005	LF	Saw Cut Welded Wire Reinforced Concrete Slab Up To 4" Depth	2.79
		For Each Additional Pass (Depth To 3"), Add	1.03
		For >250, Deduct	-0.25
02 41 19 13-0006	LF	Saw Cut Rod Reinforced Concrete Slab Up To 4" Depth	4.43
		For Each Additional Pass (Depth To 3"), Add	1.68
		For >250, Deduct	-0.41
02 41 19 13-0007	LF	Saw Cut Plain Concrete Walls Up To 4" Depth	8.08
		For Each Additional Pass (Depth To 3"), Add	3.16
		For >250, Deduct	-0.78
02 41 19 13-0008	LF	Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	10.85
		For Each Additional Pass (Depth To 3"), Add	4.25
		For >250, Deduct	-1.05
02 41 19 13-0009	EA	Saw Cut Minimum Charge	699.34

Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 41 19 13-0010 Torch Cutting^(02 41 19 13)

Note: Includes grinding edge

02 41 19 13-0011	LF	Up To 1/2", Torch Cut Steel Plate	2.40
02 41 19 13-0012	LF	>1/2" To 1" Thick, Torch Cut Steel Plate	4.81
02 41 19 13-0013	LF	>1" To 1-1/2" Thick, Torch Cut Steel Plate	7.22
02 41 19 13-0014	LF	>1-1/2" To 2" Thick, Torch Cut Steel Plate	9.62
02 41 19 13-0015	LF	>2" To 2-1/2" Thick, Torch Cut Steel Plate	12.03
02 41 19 13-0016	LF	>2-1/2" To 3" Thick, Torch Cut Steel Plate	14.44
02 41 19 13-0017	EA	Torch Cutting Minimum Charge	713.71

Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 41 19 13-0018 Drilling^(02 41 19 13)

Note: Includes drill bit wear, water, layout, set-up and clean-up.

02 41 19 13-0019 Concrete Core Drilling^(02 41 19 13-0018)

02 41 19 13-0020 Up To 4" Thick Concrete Core Drilling^(02 41 19 13-0019)

02 41 19 13-0021	EA	Drill 1" Diameter Core In Up To 4" Concrete	33.26
		For Horizontal Cores, Add	5.89
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.79
02 41 19 13-0022	EA	Drill 1-1/2" Diameter Core In Up To 4" Concrete	36.53
		For Horizontal Cores, Add	6.55
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.10
02 41 19 13-0023	EA	Drill 2" Diameter Core In Up To 4" Concrete	40.17
		For Horizontal Cores, Add	7.28
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.55
02 41 19 13-0024	EA	Drill 3" Diameter Core In Up To 4" Concrete	57.06
		For Horizontal Cores, Add	10.40
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.79
02 41 19 13-0025	EA	Drill 4" Diameter Core In Up To 4" Concrete	76.51
		For Horizontal Cores, Add	13.93
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.86

02 Existing Conditions**02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0026 EA Drill 6" Diameter Core In Up To 4" Concrete.....	86.60	
For Horizontal Cores, Add	15.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.19	
02 41 19 13-0027 EA Drill 8" Diameter Core In Up To 4" Concrete.....	136.58	
For Horizontal Cores, Add	24.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.90	
02 41 19 13-0028 EA Drill 10" Diameter Core In Up To 4" Concrete.....	172.08	
For Horizontal Cores, Add	31.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.38	
02 41 19 13-0029 EA Drill 12" Diameter Core In Up To 4" Concrete.....	201.27	
For Horizontal Cores, Add	36.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	72.78	
02 41 19 13-0030 EA Drill 14" Diameter Core In Up To 4" Concrete.....	230.91	
For Horizontal Cores, Add	41.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.16	
02 41 19 13-0031 EA Drill 18" Diameter Core In Up To 4" Concrete.....	263.44	
For Horizontal Cores, Add	46.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.55	
02 41 19 13-0032 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0033 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	47.90	
For Horizontal Cores, Add	8.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.84	
02 41 19 13-0034 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	52.57	
For Horizontal Cores, Add	9.35	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.71	
02 41 19 13-0035 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	57.77	
For Horizontal Cores, Add	10.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.79	
02 41 19 13-0036 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	70.34	
For Horizontal Cores, Add	12.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.95	
02 41 19 13-0037 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	88.50	
For Horizontal Cores, Add	15.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.19	
02 41 19 13-0038 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	117.06	
For Horizontal Cores, Add	20.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.58	
02 41 19 13-0039 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	173.83	
For Horizontal Cores, Add	31.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.38	
02 41 19 13-0040 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	206.07	
For Horizontal Cores, Add	36.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	72.78	
02 41 19 13-0041 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	236.82	
For Horizontal Cores, Add	41.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.16	
02 41 19 13-0042 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	269.03	
For Horizontal Cores, Add	46.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.55	
02 41 19 13-0043 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	305.42	
For Horizontal Cores, Add	51.98	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	103.96	
02 41 19 13-0044 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0045 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	54.19	
For Horizontal Cores, Add	9.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.52	
02 41 19 13-0046 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	59.34	
For Horizontal Cores, Add	10.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.58	
02 41 19 13-0047 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	65.06	
For Horizontal Cores, Add	11.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.87	
02 41 19 13-0048 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	78.40	
For Horizontal Cores, Add	13.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.03	
02 41 19 13-0049 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	102.56	
For Horizontal Cores, Add	17.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.34	
02 41 19 13-0050 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	142.33	
For Horizontal Cores, Add	24.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.90	
02 41 19 13-0051 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	231.87	
For Horizontal Cores, Add	41.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.16	
02 41 19 13-0052 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	265.99	
For Horizontal Cores, Add	46.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.55	
02 41 19 13-0053 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	298.39	
For Horizontal Cores, Add	51.98	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	103.96	



Existing Conditions		02
Demolition And Structure Moving		02 40
Demolition		02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0054 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	333.11	
For Horizontal Cores, Add	57.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	114.33	
02 41 19 13-0055 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	373.39	
For Horizontal Cores, Add	62.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	124.75	
02 41 19 13-0056 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0057 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	64.68	
For Horizontal Cores, Add	10.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.89	
02 41 19 13-0058 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	70.77	
For Horizontal Cores, Add	12.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.33	
02 41 19 13-0059 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	77.52	
For Horizontal Cores, Add	13.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.03	
02 41 19 13-0060 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	91.68	
For Horizontal Cores, Add	15.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.19	
02 41 19 13-0061 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	106.24	
For Horizontal Cores, Add	17.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.34	
02 41 19 13-0062 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	146.81	
For Horizontal Cores, Add	24.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.90	
02 41 19 13-0063 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	237.94	
For Horizontal Cores, Add	41.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.16	
02 41 19 13-0064 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	273.98	
For Horizontal Cores, Add	46.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.55	
02 41 19 13-0065 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	307.93	
For Horizontal Cores, Add	51.97	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	103.94	
02 41 19 13-0066 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	345.25	
For Horizontal Cores, Add	57.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	114.33	
02 41 19 13-0067 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	389.30	
For Horizontal Cores, Add	62.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	124.72	
02 41 19 13-0068 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0069 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	70.98	
For Horizontal Cores, Add	11.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.58	
02 41 19 13-0070 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	77.53	
For Horizontal Cores, Add	13.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.20	
02 41 19 13-0071 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	84.80	
For Horizontal Cores, Add	14.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.11	
02 41 19 13-0072 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	94.55	
For Horizontal Cores, Add	15.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.19	
02 41 19 13-0073 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	125.51	
For Horizontal Cores, Add	20.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.58	
02 41 19 13-0074 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	161.67	
For Horizontal Cores, Add	27.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.06	
02 41 19 13-0075 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	254.42	
For Horizontal Cores, Add	43.66	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.32	
02 41 19 13-0076 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	281.97	
For Horizontal Cores, Add	46.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.55	
02 41 19 13-0077 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	327.99	
For Horizontal Cores, Add	54.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.12	
02 41 19 13-0078 >12" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0079 IN Drill 1" Diameter Core In >12" Concrete.....	8.21	
For Horizontal Cores, Add	1.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	2.88	
02 41 19 13-0080 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	9.01	
For Horizontal Cores, Add	1.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.20	
02 41 19 13-0081 IN Drill 2" Diameter Core In >12" Concrete.....	9.90	
For Horizontal Cores, Add	1.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.56	

02 Existing Conditions**02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0082 IN Drill 3" Diameter Core In >12" Concrete	11.12	
For Horizontal Cores, Add	1.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.90	
02 41 19 13-0083 IN Drill 4" Diameter Core In >12" Concrete	14.79	
For Horizontal Cores, Add	2.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.20	
02 41 19 13-0084 IN Drill 6" Diameter Core In >12" Concrete	19.12	
For Horizontal Cores, Add	3.38	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.76	
02 41 19 13-0085 IN Drill 8" Diameter Core In >12" Concrete	30.33	
For Horizontal Cores, Add	5.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.93	
02 41 19 13-0086 IN Drill 10" Diameter Core In >12" Concrete	33.37	
For Horizontal Cores, Add	5.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.74	
02 41 19 13-0087 IN Drill 12" Diameter Core In >12" Concrete	38.61	
For Horizontal Cores, Add	6.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.52	
02 41 19 13-0088 Brick/Concrete Block Core Drilling (02 41 19 13-0018)		
02 41 19 13-0089 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0090 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	27.37	
For Horizontal Cores, Add	4.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	9.43	
02 41 19 13-0091 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	29.98	
For Horizontal Cores, Add	5.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.48	
02 41 19 13-0092 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	32.90	
For Horizontal Cores, Add	5.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.64	
02 41 19 13-0093 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	46.67	
For Horizontal Cores, Add	8.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.64	
02 41 19 13-0094 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	62.57	
For Horizontal Cores, Add	11.14	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.29	
02 41 19 13-0095 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	71.01	
For Horizontal Cores, Add	12.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.95	
02 41 19 13-0096 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	111.62	
For Horizontal Cores, Add	19.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.92	
02 41 19 13-0097 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	140.90	
For Horizontal Cores, Add	24.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.90	
02 41 19 13-0098 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	164.88	
For Horizontal Cores, Add	29.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	58.22	
02 41 19 13-0099 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	189.33	
For Horizontal Cores, Add	33.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.53	
02 41 19 13-0100 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	216.67	
For Horizontal Cores, Add	37.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.84	
02 41 19 13-0101 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0102 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	39.47	
For Horizontal Cores, Add	6.73	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.47	
02 41 19 13-0103 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	43.21	
For Horizontal Cores, Add	7.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.96	
02 41 19 13-0104 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	47.37	
For Horizontal Cores, Add	8.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.63	
02 41 19 13-0105 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	57.86	
For Horizontal Cores, Add	9.98	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.96	
02 41 19 13-0106 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	72.91	
For Horizontal Cores, Add	12.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.95	
02 41 19 13-0107 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	96.27	
For Horizontal Cores, Add	16.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.27	
02 41 19 13-0108 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	142.65	
For Horizontal Cores, Add	24.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	49.90	
02 41 19 13-0109 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	169.68	
For Horizontal Cores, Add	29.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	58.22	



Existing Conditions		02
Demolition And Structure Moving		02 40
Demolition		02 41

02

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0110	EA		Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	195.24	
			For Horizontal Cores, Add	33.26	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.53	
02 41 19 13-0111	EA		Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	222.26	
			For Horizontal Cores, Add	37.42	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.84	
02 41 19 13-0112	EA		Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	253.45	
			For Horizontal Cores, Add	41.58	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.17	
02 41 19 13-0113 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)					
02 41 19 13-0114	EA		Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	44.93	
			For Horizontal Cores, Add	7.41	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.82	
02 41 19 13-0115	EA		Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block	49.05	
			For Horizontal Cores, Add	8.23	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.47	
02 41 19 13-0116	EA		Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	53.63	
			For Horizontal Cores, Add	9.15	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.30	
02 41 19 13-0117	EA		Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	64.89	
			For Horizontal Cores, Add	10.81	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.62	
02 41 19 13-0118	EA		Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	84.89	
			For Horizontal Cores, Add	14.14	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.28	
02 41 19 13-0119	EA		Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	117.37	
			For Horizontal Cores, Add	19.96	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.92	
02 41 19 13-0120	EA		Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	190.29	
			For Horizontal Cores, Add	33.26	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.53	
02 41 19 13-0121	EA		Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	219.22	
			For Horizontal Cores, Add	37.42	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.84	
02 41 19 13-0122	EA		Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	246.42	
			For Horizontal Cores, Add	41.58	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.17	
02 41 19 13-0123	EA		Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	275.95	
			For Horizontal Cores, Add	45.73	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.46	
02 41 19 13-0124	EA		Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	311.01	
			For Horizontal Cores, Add	49.90	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	99.80	
02 41 19 13-0125 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)					
02 41 19 13-0126	EA		Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	53.74	
			For Horizontal Cores, Add	8.76	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.52	
02 41 19 13-0127	EA		Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	58.60	
			For Horizontal Cores, Add	9.73	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.46	
02 41 19 13-0128	EA		Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	64.01	
			For Horizontal Cores, Add	10.81	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.62	
02 41 19 13-0129	EA		Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	76.09	
			For Horizontal Cores, Add	12.48	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.95	
02 41 19 13-0130	EA		Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	88.57	
			For Horizontal Cores, Add	14.14	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.28	
02 41 19 13-0131	EA		Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	121.85	
			For Horizontal Cores, Add	19.96	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.92	
02 41 19 13-0132	EA		Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	196.36	
			For Horizontal Cores, Add	33.26	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.53	
02 41 19 13-0133	EA		Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	227.21	
			For Horizontal Cores, Add	37.42	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.84	
02 41 19 13-0134	EA		Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	255.96	
			For Horizontal Cores, Add	41.57	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.15	
02 41 19 13-0135	EA		Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	288.09	
			For Horizontal Cores, Add	45.73	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.46	
02 41 19 13-0136	EA		Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	326.93	
			For Horizontal Cores, Add	49.89	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	99.78	
02 41 19 13-0137 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)					

02 Existing Conditions**02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0138 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	59.19 9.43 18.86	
02 41 19 13-0139 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	64.43 10.48 20.96	
02 41 19 13-0140 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	70.25 11.64 23.29	
02 41 19 13-0141 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.96 12.48 24.95	
02 41 19 13-0142 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.72 16.63 33.27	
02 41 19 13-0143 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	134.65 21.63 43.25	
02 41 19 13-0144 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	210.76 34.93 69.86	
02 41 19 13-0145 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	235.20 37.42 74.84	
02 41 19 13-0146 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	273.93 43.25 86.50	
02 41 19 13-0147 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0148 IN Drill 1" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.77 1.15 2.31	
02 41 19 13-0149 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.40 1.28 2.56	
02 41 19 13-0150 IN Drill 2" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	8.12 1.42 2.85	
02 41 19 13-0151 IN Drill 3" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	9.17 1.56 3.12	
02 41 19 13-0152 IN Drill 4" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.20 2.08 4.16	
02 41 19 13-0153 IN Drill 6" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.74 2.71 5.41	
02 41 19 13-0154 IN Drill 8" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.86 4.37 8.74	
02 41 19 13-0155 IN Drill 10" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.50 4.70 9.40	
02 41 19 13-0156 IN Drill 12" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.86 5.41 10.82	
02 41 19 13-0157 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0018) Note: Includes layout.		
02 41 19 13-0158 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth	1.91	
02 41 19 13-0159 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.00	
02 41 19 13-0160 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.15	
02 41 19 13-0161 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.29	
02 41 19 13-0162 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.50	
02 41 19 13-0163 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.72	
02 41 19 13-0164 IN 1" Diameter Drilling In Concrete Per Inch Of Depth	2.87	
02 41 19 13-0165 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.17	
02 41 19 13-0166 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.58	
02 41 19 13-0167 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0018) Note: Includes layout.		
02 41 19 13-0168 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.60	
02 41 19 13-0169 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.69	
02 41 19 13-0170 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.80	
02 41 19 13-0171 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.92	
02 41 19 13-0172 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.10	
02 41 19 13-0173 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.28	
02 41 19 13-0174 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.41	
02 41 19 13-0175 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.66	
02 41 19 13-0176 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.00	



Existing Conditions		02
Demolition And Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0177 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0018)		
Note: Includes layout.		
02 41 19 13-0178 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.78	
02 41 19 13-0179 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.82	
02 41 19 13-0180 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.88	
02 41 19 13-0181 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.94	
02 41 19 13-0182 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.03	
02 41 19 13-0183 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.11	
02 41 19 13-0184 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.18	
02 41 19 13-0185 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.29	
02 41 19 13-0186 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.47	
02 41 19 13-0187 Minimum Charge For Core Drilling (02 41 19 13-0018)		
02 41 19 13-0188 EA Core Drill Minimum Charge.....	566.74	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0189 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0190 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0189)		
02 41 19 13-0191 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	40.33	
02 41 19 13-0192 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	42.77	
02 41 19 13-0193 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	45.21	
02 41 19 13-0194 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	47.65	
02 41 19 13-0195 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	48.87	
02 41 19 13-0196 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0189)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0197 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	49.15	
02 41 19 13-0198 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	52.12	
02 41 19 13-0199 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	55.11	
02 41 19 13-0200 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	58.08	
02 41 19 13-0201 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	59.57	
02 41 19 13-0202 Reinforced Concrete Wall Cutouts (02 41 19 13-0189)		
02 41 19 13-0203 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	50.40	
02 41 19 13-0204 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	53.46	
02 41 19 13-0205 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	56.52	
02 41 19 13-0206 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	59.57	
02 41 19 13-0207 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	61.10	
02 41 19 13-0208 Brick Wall Cutouts (02 41 19 13-0189)		
Note: Excludes toothing.		
02 41 19 13-0209 SF 4" Thick Brick Wall Cutouts, <24 SF.....	15.28	
02 41 19 13-0210 SF 6" Thick Brick Wall Cutouts, <24 SF.....	25.20	
02 41 19 13-0211 SF 8" Thick Brick Wall Cutouts, <24 SF.....	35.10	
02 41 19 13-0212 SF 10" Thick Brick Wall Cutouts, <24 SF.....	42.77	
02 41 19 13-0213 SF 12" Thick Brick Wall Cutouts, <24 SF.....	51.17	
02 41 19 13-0214 SF 16" Thick Brick Wall Cutouts, <24 SF.....	60.34	
02 41 19 13-0215 Concrete Block Wall Cutouts (02 41 19 13-0189)		
Note: Excludes toothing.		
02 41 19 13-0216 SF 4" Thick Concrete Block Wall Cutouts, <24 SF.....	25.27	
02 41 19 13-0217 SF 6" Thick Concrete Block Wall Cutouts, <24 SF.....	26.76	
02 41 19 13-0218 SF 8" Thick Concrete Block Wall Cutouts, <24 SF.....	28.26	
02 41 19 13-0219 SF 10" Thick Concrete Block Wall Cutouts, <24 SF.....	29.79	
02 41 19 13-0220 SF 12" Thick Concrete Block Wall Cutouts, <24 SF.....	30.55	
02 41 19 13-0221 SF 16" Thick Concrete Block Wall Cutouts, <24 SF.....	32.08	
02 41 19 13-0222 Limestone Cutouts (02 41 19 13-0189)		
02 41 19 13-0223 SF 2" Thick Limestone Cutouts, <24 SF.....	42.77	
02 41 19 13-0224 SF 4" Thick Limestone Cutouts, <24 SF.....	51.93	
02 41 19 13-0225 SF 6" Thick Limestone Cutouts, <24 SF.....	54.99	
02 41 19 13-0226 SF 8" Thick Limestone Cutouts, <24 SF.....	58.05	
02 41 19 13-0227 SF 10" Thick Limestone Cutouts, <24 SF.....	61.10	
02 41 19 13-0228 SF 12" Thick Limestone Cutouts, <24 SF.....	64.15	

02 Existing Conditions**02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0229 Toothing Masonry Cutouts (02 41 19 13-0189) Note: For use where existing masonry must be removed in a tothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0230 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	15.28	
02 41 19 13-0231 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	20.62	
02 41 19 13-0232 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	9.16	
02 41 19 13-0233 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts.....	12.22	
02 41 19 13-0234 Minimum Charge For Cutouts (02 41 19 13-0189) Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0235 EA Cutouts Minimum Charge	305.50	
02 41 19 13-0236 Exterior Masonry Removal (02 41 19 13)		
02 41 19 13-0237 Masonry Columns Removal (Interior And Exterior) (02 41 19 13-0236)		
02 41 19 13-0238 VLF 8" x 8" Masonry Column Removal	12.07	
02 41 19 13-0239 VLF 10" x 10" Masonry Column Removal	18.87	
02 41 19 13-0240 VLF 12" x 12" Masonry Column Removal	24.18	
02 41 19 13-0241 VLF 14" x 14" Masonry Column Removal	30.26	
02 41 19 13-0242 VLF 16" x 16" Masonry Column Removal	37.17	
02 41 19 13-0243 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	20.88	
02 41 19 13-0244 Masonry Chimney Removal (02 41 19 13-0236)		
02 41 19 13-0245 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	24.49	
02 41 19 13-0246 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	18.39	
02 41 19 13-0247 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	14.07	
02 41 19 13-0248 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	9.74	
02 41 19 13-0249 Remove And Reset Precast, Stone Or Masonry Coping (02 41 19 13-0236) Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0250 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	14.81	
02 41 19 13-0251 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	22.30	
02 41 19 13-0252 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	42.94	
02 41 19 13-0253 Facade Removal (02 41 19 13-0236) Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0254 SF Stone Or Brick Veneer Facade Removal	4.60	
For Cleaning and Storage For Reuse, Add	3.45	
02 41 19 13-0255 Exterior Masonry Removal (02 41 19 13-0236) Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0256 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall	4.05	
02 41 19 13-0257 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall	4.56	
02 41 19 13-0258 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall	5.52	
02 41 19 13-0259 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	6.03	
02 41 19 13-0260 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	6.62	
02 41 19 13-0261 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall	8.28	
02 41 19 13-0262 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	4.78	
02 41 19 13-0263 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	5.47	
02 41 19 13-0264 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	6.62	
02 41 19 13-0265 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	7.24	
02 41 19 13-0266 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	7.94	
02 41 19 13-0267 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	9.94	
02 41 19 13-0268 SF Demolish 4" Thick Brick Exterior Wall	4.05	
For Cleaning and Storage For Reuse, Add	3.04	
02 41 19 13-0269 SF Demolish 6" Thick Brick Exterior Wall	4.56	
For Cleaning and Storage For Reuse, Add	3.42	
02 41 19 13-0270 SF Demolish 8" Thick Brick Exterior Wall	5.52	
For Cleaning and Storage For Reuse, Add	4.14	
02 41 19 13-0271 SF Demolish 10" Thick Brick Exterior Wall	6.03	
For Cleaning and Storage For Reuse, Add	4.52	
02 41 19 13-0272 SF Demolish 12" Thick Brick Exterior Wall	6.62	
For Cleaning and Storage For Reuse, Add	4.97	
02 41 19 13-0273 SF Demolish 16" Thick Brick Exterior Wall	8.28	
For Cleaning and Storage For Reuse, Add	6.21	
02 41 19 13-0274 CF Exterior Brick, Concrete Block Or Composite Removal	11.77	
For Cleaning and Storage For Reuse, Add	8.83	



Existing Conditions		02
Demolition And Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0275 Exterior Concrete Wall Removal (02 41 19 13)		
02 41 19 13-0276 SF Demolish 4" Thick Reinforced Concrete Exterior Wall	5.08	
02 41 19 13-0277 SF Demolish 6" Thick Reinforced Concrete Exterior Wall	9.22	
02 41 19 13-0278 SF Demolish 8" Thick Reinforced Concrete Exterior Wall	11.58	
02 41 19 13-0279 SF Demolish 10" Thick Reinforced Concrete Exterior Wall	13.65	
02 41 19 13-0280 SF Demolish 12" Thick Reinforced Concrete Exterior Wall	16.14	
02 41 19 13-0281 Roofing Removal (02 41 19 13)		
02 41 19 13-0282 Clay Tile Roof Remove And Salvage For Re-use (02 41 19 13-0281)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 41 19 13-0283 SQ Removal Of Clay Roof Tile, Salvage For Re-use.....	240.30	
02 41 19 13-0284 Elevated Concrete Removal (02 41 19 13)		
02 41 19 13-0285 CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced	10.23	
02 41 19 16 Selective Interior Demolition (02 41 19)		
Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.		
02 41 19 16-0001 Floor Removal (02 41 19 16)		
02 41 19 16-0002 Remove And Salvage For Re-Use (02 41 19 16-0001)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 41 19 16-0003 SF Removal Of Brick Flooring And Salvage.....	2.19	
02 41 19 16-0004 SF Removal Of Ceramic/Quarry Tile Floor And Salvage	2.19	
02 41 19 16-0005 SF Removal Of Terrazzo Flooring And Salvage.....	3.03	
02 41 19 16-0006 SF Removal Of Wood Strip Flooring And Salvage.....	1.77	
02 41 19 16-0007 SF Removal Of Wood Parquet Flooring And Salvage.....	0.93	
02 41 19 16-0008 SF Removal Of Resilient/Linoleum Flooring And Salvage	0.67	
02 41 19 16-0009 Scarify Concrete (02 41 19 16-0001)		
Note: Up to 1/4" removal per pass.		
02 41 19 16-0010 SF Scarify Concrete Floor	0.24	
02 41 19 16-0011 SF Scarify Concrete Tread And Riser	2.00	
02 41 19 16-0012 SF Scarify Concrete Wall	1.81	
02 41 19 16-0013 Fireproofing Removal (02 41 19 16)		
02 41 19 16-0014 SF Removal Of Fireproofing From Concrete Or Steel.....	1.03	
02 41 19 16-0015 Demolish Ceiling (02 41 19 16)		
02 41 19 16-0016 SF Demolish Drywall Ceiling	0.79	
02 41 19 16-0017 SF Demolish Furred Plastered Ceiling	1.85	
02 41 19 16-0018 SF Demolish Suspended Plastered Ceiling And Suspension System.....	1.41	
02 41 19 16-0019 Demolish Concrete Stair (02 41 19 16)		
02 41 19 16-0020 CF Demolish Interior Reinforced Concrete Stairs.....	6.62	
02 41 19 16-0021 CF Demolish Exterior Reinforced Concrete Stairs.....	5.30	
02 41 19 16-0022 Demolish Interior Partition/Wall (02 41 19 16)		
Note: Price includes knock down, loading, clean-up.		
02 41 19 16-0023 Demolish Masonry And Concrete Interior Partition/Walls (02 41 19 16-0022)		
Note: Includes saw cutting, knock down, loading and clean-up.		
02 41 19 16-0024 Demolish Concrete Block Interior Partition/Walls (02 41 19 16-0023)		
02 41 19 16-0025 SF Demolish 4" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	4.28	
02 41 19 16-0026 SF Demolish 6" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	4.58	
02 41 19 16-0027 SF Demolish 8" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	5.16	
02 41 19 16-0028 SF Demolish 12" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	6.62	
02 41 19 16-0029 SF Demolish 16" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	8.28	
02 41 19 16-0030 SF Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall	5.14	
02 41 19 16-0031 SF Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall	5.50	
02 41 19 16-0032 SF Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall	6.20	
02 41 19 16-0033 SF Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall	7.95	
02 41 19 16-0034 SF Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall	9.94	
02 41 19 16-0035 Demolish Brick Interior Partition/Walls (02 41 19 16-0023)		
02 41 19 16-0036 SF Demolish 4" Thick Brick Interior Partition/Wall	4.28	
02 41 19 16-0037 SF Demolish 8" Thick Brick Interior Partition/Wall.....	5.16	
02 41 19 16-0038 SF Demolish 12" Thick Brick Interior Partition/Wall.....	6.61	

02	Existing Conditions
02 40	Demolition And Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 16-0039 SF Demolish 16" Thick Brick Interior Partition/Wall	8.28	
02 41 19 16-0040 Demolish Glass Block Interior Partition/Walls (02 41 19 16-0023)		
02 41 19 16-0041 SF Demolish Glass Block Interior Partition/Walls	3.68	
02 41 19 16-0042 Demolish Concrete Interior Partition/Walls (02 41 19 16-0023)		
02 41 19 16-0043 SF Demolish 6" Thick Non Reinforced Concrete Interior Partition/Wall	7.80	
02 41 19 16-0044 SF Demolish 8" Thick Non Reinforced Concrete Interior Partition/Wall	9.74	
02 41 19 16-0045 SF Demolish 12" Thick Non Reinforced Concrete Interior Partition/Wall	13.65	
02 41 19 16-0046 SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall	9.35	
02 41 19 16-0047 SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall	11.77	
02 41 19 16-0048 SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall	16.37	
02 41 19 16-0049 Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0023)		
02 41 19 16-0050 SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster	1.47	
02 41 19 16-0051 Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0022)		
Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.		
02 41 19 16-0052 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side	2.61	
For Heights >14' To 20', Add	0.39	
For Heights >20', Add	0.52	
02 41 19 16-0053 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides	3.04	
For Heights >14' To 20', Add	0.46	
For Heights >20', Add	0.61	
02 41 19 16-0054 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side	3.34	
For Heights >14' To 20', Add	0.50	
For Heights >20', Add	0.67	
02 41 19 16-0055 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides	4.64	
For Heights >14' To 20', Add	0.70	
For Heights >20', Add	0.93	
02 41 19 16-0056 SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall	1.37	
For Heights >14' To 20', Add	0.21	
For Heights >20', Add	0.27	
02 41 19 16-0057 SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall	1.63	
For Heights >14' To 20', Add	0.24	
For Heights >20', Add	0.33	
02 80 Facility Remediation (02)		
02 81 Transportation And Disposal Of Hazardous Materials (02 80)		
02 81 00 00-0001 Hazardous Material Disposal (02 81)		
02 81 00 00-0002 GAL Drain Hazardous (PCB) Oil Filled Equipment And Dispose In Approved Container	8.35	
Note: Includes handling of container and disposal at approved site.		
02 81 00 00-0003 CF Hazardous (PCB) Oil Filled Equipment Disposal At Approved Site	56.43	
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.		
02 82 Asbestos Remediation (02 80)		
Note: Tasks include materials, equipment (e.g. ladders, high volume vacuum with sound suppression system where required, etc.), mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, HEPA vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, fees, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there are tasks with a unit of measure of EA for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 74 19 00-0038 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for solid isolation barriers, 02 89 00 00-0012 for plastic sheeting for containment construction, 02 89 00 00-0019 for decontamination chambers.		
02 82 13 Asbestos Abatement (02 82)		
02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)		
Note: Testing tasks include packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.		
02 82 13 00-0002 HR Bulk Sampling Or Air Monitoring, Asbestos Testing	62.25	
02 82 13 00-0003 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	30.61	
02 82 13 00-0004 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	35.89	
02 82 13 00-0005 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	57.00	
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	98.16	
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	119.27	
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	24.28	
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	29.55	
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	40.11	
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	30.61	



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test.....	35.89	
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test.....	57.00	
02 82 13 00-0014 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing.....	98.16	
02 82 13 00-0015 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	112.94	
02 82 13 00-0016 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing.....	157.27	
02 82 16 Engineering Control of Asbestos Containing Materials (02 82)		
02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)		
02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.12	
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	1.61	
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®).....	1.52	
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	1.74	
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	4.85	
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®).....	5.40	
02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)		
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)		
Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)		
See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0004 EA 10 To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	516.08	
For Work In Restricted Working Space, Add	154.82	
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	26.39	
For Work In Restricted Working Space, Add	7.92	
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.80	
For Work In Restricted Working Space, Add	5.94	
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	14.85	
For Work In Restricted Working Space, Add	4.46	
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	11.13	
For Work In Restricted Working Space, Add	3.34	
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	9.68	
For Work In Restricted Working Space, Add	2.90	
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)		
See CSI section 02 82 33 00-0017 for projects with less than 10 LF.		
02 82 33 00-0011 EA 10 To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	516.08	
For Work In Restricted Working Space, Add	154.82	
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.35	
For Work In Restricted Working Space, Add	9.11	
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	22.76	
For Work In Restricted Working Space, Add	6.83	
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	17.07	
For Work In Restricted Working Space, Add	5.12	
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	12.80	
For Work In Restricted Working Space, Add	3.84	
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	11.13	
For Work In Restricted Working Space, Add	3.34	
02 82 33 00-0017 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)		
Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0018 EA Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal.....	560.26	
For Work In Restricted Working Space, Add	168.08	
02 82 33 00-0019 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation.....	83.00	
For Work In Restricted Working Space, Add	24.90	
02 82 33 00-0020 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation.....	32.22	
For Work In Restricted Working Space, Add	9.67	
02 82 33 00-0021 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation.....	24.16	
For Work In Restricted Working Space, Add	7.25	
02 82 33 00-0022 LF >500 LF Additional Glove Bag Work for Pipe Insulation.....	18.12	
For Work In Restricted Working Space, Add	5.44	
02 82 33 00-0023 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0024 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023)		
Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0025 EA Up To 10 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0026 SF >10 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	26.39	
02 82 33 00-0027 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	20.78	
02 82 33 00-0028 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	15.59	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0029 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	11.69	
02 82 33 00-0030 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0031 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0030)		
Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0033 for areas > 1 SF see CSI section.		
02 82 33 00-0032 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	129.02	
Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0033 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0030)		
Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0034 EA Up To 10 SF, Fireproofing, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0035 SF >10 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	31.66	
02 82 33 00-0036 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	23.74	
02 82 33 00-0037 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	17.80	
02 82 33 00-0038 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal	13.36	
02 82 33 00-0039 Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0030)		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0040 EA Up To 10 SF, Acoustical Plaster, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0041 SF >10 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	13.23	
02 82 33 00-0042 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	10.00	
02 82 33 00-0043 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.42	
02 82 33 00-0044 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	5.49	
02 82 33 00-0045 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0030)		
02 82 33 00-0046 EA Up To 10 SF, Gypsum Wall Board, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0047 SF >10 To 500 SF, Gypsum Wall Board, Asbestos Abatement And Disposal	10.16	
02 82 33 00-0048 SF >500 To 2,500 SF, Gypsum Wall Board, Asbestos Abatement And Disposal	7.42	
02 82 33 00-0049 SF >2,500 To 10,000 SF, Gypsum Wall Board, Asbestos Abatement And Disposal	5.81	
02 82 33 00-0050 SF >10,000 To 50,000 SF, Gypsum Wall Board, Asbestos Abatement And Disposal	4.52	
02 82 33 00-0051 SF >50,000 SF, Gypsum Wall Board, Asbestos Abatement And Disposal	3.22	
02 82 33 00-0052 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0030)		
02 82 33 00-0053 EA Up To 10 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0054 SF >10 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	19.29	
02 82 33 00-0055 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	14.13	
02 82 33 00-0056 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	11.04	
02 82 33 00-0057 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	8.58	
02 82 33 00-0058 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	6.13	
02 82 33 00-0059 Stucco, Asbestos Abatement And Disposal (02 82 33 00-0030)		
02 82 33 00-0060 EA Up To 10 SF, Stucco, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0061 SF >10 To 500 SF, Stucco, Asbestos Abatement And Disposal	22.43	
02 82 33 00-0062 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	16.82	
02 82 33 00-0063 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	12.61	
02 82 33 00-0064 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	9.47	
02 82 33 00-0065 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal (02 82 33 00-0030)		
02 82 33 00-0066 EA Up To 10 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0067 SF >10 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	8.60	
02 82 33 00-0068 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	6.45	
02 82 33 00-0069 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	4.84	
02 82 33 00-0070 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	3.62	
02 82 33 00-0071 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0030)		
02 82 33 00-0072 EA Up To 10 SF, Plywood, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0073 SF >10 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	10.97	
02 82 33 00-0074 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	5.28	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.56	
02 82 33 00-0076 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.03	
02 82 33 00-0077 Flooring Material, Asbestos Abatement And Disposal (02 82 33)		



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0078 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal (02 82 33 00-0077)		
02 82 33 00-0079 Floor Tile Or Linoleum, Asbestos Abatement And Disposal (02 82 33 00-0078) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0080 EA Up To 10 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0081 SF >10 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	5.28	
For Each Additional Layer, Add	1.32	
02 82 33 00-0082 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	4.29	
For Each Additional Layer, Add	1.07	
02 82 33 00-0083 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	3.38	
For Each Additional Layer, Add	0.85	
02 82 33 00-0084 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	2.29	
For Each Additional Layer, Add	0.57	
02 82 33 00-0085 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0078)		
02 82 33 00-0086 EA Up To 10 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0087 SF >10 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.08	
02 82 33 00-0088 SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.27	
02 82 33 00-0089 SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.35	
02 82 33 00-0090 SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	1.74	
02 82 33 00-0091 Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0078) Note: Up to 12".		
02 82 33 00-0092 EA Up To 10 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	193.54	
02 82 33 00-0093 LF >10 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	3.44	
02 82 33 00-0094 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.06	
02 82 33 00-0095 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.29	
02 82 33 00-0096 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	0.90	
02 82 33 00-0097 Mastic, Asbestos Abatement And Disposal (02 82 33 00-0077) Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0098 EA Up To 10 SF, Mastic, Asbestos Abatement And Disposal.....	516.08	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0099 SF >10 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	1.32	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0100 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	0.97	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0101 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	0.75	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0102 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	0.60	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0103 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0077) Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0104 EA Up To 10 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0105 SF >10 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	6.10	
02 82 33 00-0106 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.46	
02 82 33 00-0107 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.48	
02 82 33 00-0108 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	2.71	
02 82 33 00-0109 Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0110 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0109) Note: Includes paint, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0111 Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0110)		
02 82 33 00-0112 EA Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	516.08	
02 82 33 00-0113 SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.12	
02 82 33 00-0114 SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.30	
02 82 33 00-0115 SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.64	
02 82 33 00-0116 SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1.98	
02 82 33 00-0117 SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1.48	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0118			>2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0110)		
02 82 33 00-0119	EA		Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0120	SF		>110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	4.69	
02 82 33 00-0121	SF		>1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.75	
02 82 33 00-0122	SF		>5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.02	
02 82 33 00-0123	SF		>10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	2.26	
02 82 33 00-0124	SF		>20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1.69	
02 82 33 00-0125			>5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0110)		
02 82 33 00-0126	EA		Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0127	SF		>110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	5.22	
02 82 33 00-0128	SF		>1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	4.15	
02 82 33 00-0129	SF		>5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.35	
02 82 33 00-0130	SF		>10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	2.51	
02 82 33 00-0131	SF		>20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1.88	
02 82 33 00-0132			Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0109)		
02 82 33 00-0133			Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0132)		
02 82 33 00-0134	EA		Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	516.08	
			Note: Single or first of multiple layers.		
02 82 33 00-0135	SF		>125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	4.12	
			Note: Single or first of multiple layers.		
			For Each Additional Layer, Add	1.03	
02 82 33 00-0136	SF		>1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	3.30	
			Note: Single or first of multiple layers.		
			For Each Additional Layer, Add	0.83	
02 82 33 00-0137	SF		>5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	2.64	
			Note: Single or first of multiple layers.		
			For Each Additional Layer, Add	0.66	
02 82 33 00-0138	SF		>10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	1.98	
			Note: Single or first of multiple layers.		
			For Each Additional Layer, Add	0.50	
02 82 33 00-0139	SF		>20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	1.48	
			Note: Single or first of multiple layers.		
			For Each Additional Layer, Add	0.37	
02 82 33 00-0140			Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0109)		
02 82 33 00-0141	EA		Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	129.02	
02 82 33 00-0142	SF		>10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	1.61	
02 82 33 00-0143	SF		>50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	1.32	
02 82 33 00-0144	SF		>100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	1.06	
02 82 33 00-0145	SF		>250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	0.77	
02 82 33 00-0146			Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0109)		
02 82 33 00-0147	EA		Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	129.02	
02 82 33 00-0148	LF		>10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	4.84	
02 82 33 00-0149	LF		>20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	3.88	
02 82 33 00-0150	LF		>50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	3.22	
02 82 33 00-0151	LF		>150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	2.32	
02 82 33 00-0152			Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0153			Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0153)		
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0154	EA		Up To 10 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	516.08	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0155	SF		>10 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	5.28	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0156	SF		>500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.64	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0157	SF		>2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.10	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0158	SF		>10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	1.84	
			Note: Includes detachment of mounted objects before removal.		



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0159 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0152)		
02 82 33 00-0160 EA Up To 10 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0161 SF >10 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	4.58	
02 82 33 00-0162 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.35	
02 82 33 00-0163 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1.88	
02 82 33 00-0164 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1.63	
02 82 33 00-0165 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0152)		
02 82 33 00-0166 EA Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0167 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	26.39	
02 82 33 00-0168 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	19.80	
02 82 33 00-0169 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	14.85	
02 82 33 00-0170 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	11.13	
02 82 33 00-0171 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	8.35	
02 82 33 00-0172 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	8.16	
02 82 33 00-0173 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0152)		
02 82 33 00-0174 EA Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	516.08	
Note: Single or first of multiple layers.		
02 82 33 00-0175 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	4.12	
Note: Single or first of multiple layers.		
02 82 33 00-0176 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	3.30	
Note: Single or first of multiple layers.		
02 82 33 00-0177 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.64	
Note: Single or first of multiple layers.		
02 82 33 00-0178 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	1.98	
Note: Single or first of multiple layers.		
02 82 33 00-0179 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	1.48	
Note: Single or first of multiple layers.		
02 82 33 00-0180 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0181 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0180)		
02 82 33 00-0182 EA Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	516.08	
For Work In Restricted Working Space, Add		
	154.82	
02 82 33 00-0183 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	51.32	
For Work In Restricted Working Space, Add		
	15.40	
02 82 33 00-0184 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	34.21	
For Work In Restricted Working Space, Add		
	10.26	
02 82 33 00-0185 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	25.69	
For Work In Restricted Working Space, Add		
	7.71	
02 82 33 00-0186 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	20.53	
For Work In Restricted Working Space, Add		
	6.16	
02 82 33 00-0187 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	17.45	
For Work In Restricted Working Space, Add		
	5.24	
02 82 33 00-0188 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	15.70	
For Work In Restricted Working Space, Add		
	4.71	
02 82 33 00-0189 Asbestos Contaminated Soil, Asbestos Abatement And Disposal (02 82 33 00-0180)		
02 82 33 00-0190 EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	774.12	
For Work In Restricted Working Space, Add		
	232.24	
02 82 33 00-0191 CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	51.32	
For Work In Restricted Working Space, Add		
	15.40	
02 82 33 00-0192 CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	34.21	
For Work In Restricted Working Space, Add		
	10.26	
02 82 33 00-0193 CF >250 To 500 CF, Asbestos Contaminated Asbestos Abatement And Disposal	25.69	
02 82 33 00-0194 CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	20.53	
For Work In Restricted Working Space, Add		
	6.16	
02 82 33 00-0195 CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	17.45	
For Work In Restricted Working Space, Add		
	5.24	
02 82 33 00-0196 CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	15.70	
For Work In Restricted Working Space, Add		
	4.71	
02 82 33 00-0197 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0180)		
02 82 33 00-0198 EA Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	516.08	
02 82 33 00-0199 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	46.19	
02 82 33 00-0200 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	30.79	
02 82 33 00-0201 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	23.13	
02 82 33 00-0202 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	18.48	
02 82 33 00-0203 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	15.71	
02 82 33 00-0204 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	14.13	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 82 33 00-0205		Other Asbestos Containing Materials, Asbestos Abatement And Disposal ^(02 82 33)	
02 82 33 00-0206		30" To 36" Fire Door, Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
02 82 33 00-0207	EA	Up To 5 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	103.21
02 82 33 00-0208	EA	>5 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	39.58
02 82 33 00-0209	EA	>20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	26.39
02 82 33 00-0210		HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
02 82 33 00-0211	EA	Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	258.04
02 82 33 00-0212	LF	>10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	5.28
02 82 33 00-0213	LF	>50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.96
02 82 33 00-0214	LF	>100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.40
02 82 33 00-0215	LF	>250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.93
02 82 33 00-0216	LF	>1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.51
02 82 33 00-0217	LF	>2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.17
02 82 33 00-0218		Grout, Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
		Note: e.g. flue grout.	
02 82 33 00-0219	EA	Up To 10 LF, Grout, Asbestos Abatement And Disposal	193.54
02 82 33 00-0220	LF	>10 To 50 LF, Grout, Asbestos Abatement And Disposal	10.16
02 82 33 00-0221	LF	>50 To 100 LF, Grout, Asbestos Abatement And Disposal	6.99
02 82 33 00-0222	LF	>100 To 250 LF, Grout, Asbestos Abatement And Disposal	5.99
02 82 33 00-0223	LF	>250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	5.14
02 82 33 00-0224	LF	>1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	4.43
02 82 33 00-0225	LF	>2,500 LF, Grout, Asbestos Abatement And Disposal	3.80
02 82 33 00-0226		Gaskets, Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
		Note: e.g. rope, web cloth, flat.	
02 82 33 00-0227	EA	Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	193.54
02 82 33 00-0228	LF	>10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	13.69
02 82 33 00-0229	LF	>50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	10.26
02 82 33 00-0230	LF	>250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	8.74
02 82 33 00-0231	LF	>500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	7.87
02 82 33 00-0232	LF	>1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	7.07
02 82 33 00-0233	LF	>2,500 LF, Gaskets, Asbestos Abatement And Disposal	6.73
02 82 33 00-0234		Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
		Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.	
02 82 33 00-0235	EA	Up To 50 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal	516.08
02 82 33 00-0236	SF	>50 To 1,000 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal	10.97
02 82 33 00-0237	SF	>1,000 To 2,500 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal	5.28
02 82 33 00-0238	SF	>2,500 To 10,000 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal	3.56
02 82 33 00-0239	SF	>10,000 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal	3.03
02 82 33 00-0240		Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
		Note: Includes ceiling tile, asbestos barrier paper, and furring strips.	
02 82 33 00-0241	EA	Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	516.08
02 82 33 00-0242	SF	>50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	10.97
02 82 33 00-0243	SF	>1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	5.28
02 82 33 00-0244	SF	>2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	3.56
02 82 33 00-0245	SF	>10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	3.03
02 82 33 00-0246		Caulking, Asbestos Abatement And Disposal ^(02 82 33 00-0205)	
02 82 33 00-0247		Non Friable Caulking, Asbestos Abatement And Disposal ^(02 82 33 00-0246)	
02 82 33 00-0248	EA	Up To 10 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	193.54
02 82 33 00-0249	LF	>10 To 50 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	7.61
02 82 33 00-0250	LF	>50 To 100 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	5.37
02 82 33 00-0251	LF	>100 To 250 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	3.99
02 82 33 00-0252	LF	>250 To 1,000 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	3.00
02 82 33 00-0253	LF	>1,000 To 2,500 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	2.37
02 82 33 00-0254	LF	>2,500 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal	2.06

02 83 Lead Remediation^(02 80)

Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.),



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
signage, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 74 19 00-0038 for hauling in excess of 25 miles to transfer or disposal site, 02 81 00 00-0001 for transportation and disposal of hazardous material into approved facility., 02 89 00 00-0002 for solid isolation barriers, 02 89 00 00-0012 for plastic sheeting for containment construction, 02 89 00 00-0019 for decontamination chambers.		
02 83 19 Lead-Based Paint Remediation (02 83)		
02 83 19 13 Lead-Based Paint Abatement (02 83 19)		
02 83 19 13-0001 Sampling And Testing (02 83 19 13)		
Note: Includes taking sample, delivery to lab and lab fee.		
02 83 19 13-0002 EA X-Ray Fluorescence (XRF) Lead Testing Including Technician, 3 Readings Per Surface.....	36.38	
02 83 19 13-0003 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (5 Day Turnaround) And Lab Fee.....	34.83	
02 83 19 13-0004 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (48 Hour Turnaround) And Lab Fee	52.78	
02 83 19 13-0005 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (24 Hour Turnaround) And Lab Fee	73.88	
02 83 19 13-0006 EA Total Threshold Leaching Concentration (TTLCL) Lead Test (5 Day Turnaround) And Lab Fee	13.72	
02 83 19 13-0007 EA Total Threshold Leaching Concentration (TTLCL) Lead Test (24 Hour Turnaround) And Lab Fee.....	21.11	
02 83 19 13-0008 EA Total Threshold Leaching Concentration (TTLCL) Lead Test (8 Hour Turnaround) And Lab Fee	26.39	
02 83 19 13-0009 EA Soluble Threshold Limit Concentration (STLCL) Lead Test (5 Day Turnaround) And Lab Fee	34.83	
02 83 19 13-0010 EA Soluble Threshold Limit Concentration (STLCL) Lead Test (3 Day Turnaround) And Lab Fee	52.78	
02 83 19 13-0011 EA Lead Wipe Samples (5 Day Turnaround) And Lab Fee.....	5.81	
02 83 19 13-0012 EA Lead Wipe Samples (24 Hour Turnaround) And Lab Fee.....	7.92	
02 83 19 13-0013 EA Lead Wipe Samples (8 Hour Turnaround) And Lab Fee.....	11.61	
02 83 19 13-0014 EA Lead Air Samples (5 Day Turn -Around) And Lab Fee	5.81	
02 83 19 13-0015 EA Lead Air Samples (24 Hour Turnaround) And Lab Fee	7.92	
02 83 19 13-0016 EA Lead Air Samples (8 Hour Turnaround) And Lab Fee	11.61	
02 83 19 13-0017 EA Lead Water Test (5 Day Turnaround) and Lab Fee.....	21.11	
02 83 19 13-0018 EA Lead Water Test (24 Hour Turnaround) and Lab Fee.....	31.66	
02 83 19 13-0019 EA Lead Water Test (8 Hour Turnaround) and Lab Fee.....	42.22	
02 83 19 13-0020 EA Lead Paint Chip Test (5 Day Turnaround) and Lab Fee	21.83	
02 83 19 13-0021 EA Lead Soil Test (5 Day Turnaround) and Lab Fee.....	43.66	
02 83 19 13-0022 EA Sample Pickup, Per Trip	31.66	
02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)		
02 83 19 13-0024 EA Lead-Based Paint Remediation Minimum Show Up Charge	802.01	
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.		
02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)		
Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.		
02 83 19 13-0026 SF Balustrades, Simple, Chemical Stripping Of Lead Contaminated Material	25.66	
02 83 19 13-0027 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	38.36	
02 83 19 13-0028 LF Up To 6" Wide Baseboard, Chemical Stripping Of Lead Contaminated Material.....	10.92	
02 83 19 13-0029 LF >6" To 12" Wide Baseboard, Chemical Stripping Of Lead Contaminated Material	22.68	
02 83 19 13-0030 SF Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material	7.08	
02 83 19 13-0031 SF Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material	27.51	
02 83 19 13-0032 SF Cabinets, Simple Design, Chemical Stripping Of Lead Contaminated Material	21.48	
02 83 19 13-0033 SF Ceilings, All, Chemical Stripping Of Lead Contaminated Material	9.95	
02 83 19 13-0034 SF Columns, Chemical Stripping Of Lead Contaminated Material	9.41	
02 83 19 13-0035 SF Cornice, Simple, Chemical Stripping Of Lead Contaminated Material.....	11.66	
02 83 19 13-0036 SF Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material	34.12	
02 83 19 13-0037 SF Doors, One Side Flush, Chemical Stripping Of Lead Contaminated Material	8.35	
02 83 19 13-0038 SF Doors, One Panel, Chemical Stripping Of Lead Contaminated Material.....	8.72	
02 83 19 13-0039 SF Doors, Four Panel, Chemical Stripping Of Lead Contaminated Material	15.38	
02 83 19 13-0040 EA Electrical Devices, Chemical Stripping Of Lead Contaminated Material	113.30	
02 83 19 13-0041 LF Trim Or Frames, One Side, Chemical Stripping Of Lead Contaminated Material.....	10.85	
02 83 19 13-0042 LF Up To 2" Electrical Conduit, Chemical Stripping Of Lead Contaminated Material	4.69	
02 83 19 13-0043 SF Fence, Picket, Chemical Stripping Of Lead Contaminated Material	23.04	
02 83 19 13-0044 SF Floors, Wood, Chemical Stripping Of Lead Contaminated Material	5.75	
02 83 19 13-0045 SF Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	27.51	
02 83 19 13-0046 SF Grilles, Simple, Chemical Stripping Of Lead Contaminated Material	22.99	
02 83 19 13-0047 EA Hinges, Chemical Stripping Of Lead Contaminated Material	13.96	
02 83 19 13-0048 EA Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	17.38	
02 83 19 13-0049 LF Up To 4" Diameter Pipes (Brush), Chemical Stripping Of Lead Contaminated Material	7.75	
02 83 19 13-0050 LF >4" To 8" Diameter Pipes (Brush), Chemical Stripping Of Lead Contaminated Material	13.91	
02 83 19 13-0051 LF >8" To 12" Diameter Pipes (Brush), Chemical Stripping Of Lead Contaminated Material	19.17	
02 83 19 13-0052 LF >12" To 16" Diameter Pipes (Brush), Chemical Stripping Of Lead Contaminated Material	34.59	
02 83 19 13-0053 SF >16" Diameter Pipes (Brush), Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	10.41	
02 83 19 13-0054 EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material	208.52	
02 83 19 13-0055 EA Shutters Front And Back Louvered, Up To 6', Chemical Stripping Of Lead Contaminated Material.....	233.39	
02 83 19 13-0056 EA Shutters Flat, Chemical Stripping Of Lead Contaminated Material.....	171.07	
02 83 19 13-0057 SF Siding, Chemical Stripping Of Lead Contaminated Material	7.86	
02 83 19 13-0058 SF Soffit, Chemical Stripping Of Lead Contaminated Material	17.28	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0059 SF Steel, Flat Surfaces And Tanks Up To 12', Chemical Stripping Of Lead Contaminated Material.....	7.68	
02 83 19 13-0060 SF Steel Beams, Chemical Stripping Of Lead Contaminated Material.....	8.76	
02 83 19 13-0061 SF Trusses, Chemical Stripping Of Lead Contaminated Material.....	12.62	
02 83 19 13-0062 SF Walls, Wood, Chemical Stripping Of Lead Contaminated Material.....	8.76	
02 83 19 13-0063 SF Windows, One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material.....	20.83	
02 83 19 13-0064 SF Windows, One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material.....	22.85	
02 83 19 13-0065 SF Windows, One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material.....	24.21	
02 83 19 13-0066 SF Windows, One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material.....	25.58	
02 83 19 13-0067 SF Windows, One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material.....	26.94	
02 83 19 13-0068 SF Windows, One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material.....	28.36	
02 83 19 13-0069 SF Windows, One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material.....	29.68	
02 83 19 13-0070 SF Windows, One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material.....	30.36	
02 83 19 13-0071 SF Windows, One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material.....	31.07	
02 83 19 13-0072 SF Windows, One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material.....	31.73	
02 83 19 13-0073 SF Metal Stair, Chemical Stripping Of Lead Contaminated Material.....	41.58	
02 83 19 13-0074 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material.....	20.89	
Note: The unit of measure "SF" is measured for "Length x Height". Work includes both sides of railing.		
02 83 19 13-0075 LF Ornate Railings, Chemical Stripping Of Lead Contaminated Material.....	7.02	
02 83 19 13-0076 Demolish Lead Contaminated Material^(02 83 19 13)		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0077 SF Demolish Ceiling Including Suspension System, Plaster, Lath, Lead Contaminated Material.....	1.87	
02 83 19 13-0078 SF Demolish Suspended Acoustical Ceiling System, Including Tile, Lead Contaminated Material.....	1.09	
02 83 19 13-0079 SF Demolish Acoustical Ceiling Tile, Lead Contaminated Material.....	0.69	
02 83 19 13-0080 SF Demolish Metal Pan Grid System, Lead Contaminated Material.....	1.08	
02 83 19 13-0081 EA Demolish Up To 2' x 4' Light Fixtures, Lead Contaminated Material.....	52.20	
02 83 19 13-0082 EA Demolish >2' x 4' Light Fixtures, Lead Contaminated Material.....	69.25	
02 83 19 13-0083 SF Demolish Non Load Bearing Partitions, Plaster, Lath And Studs, Lead Contaminated Material.....	7.74	
02 83 19 13-0084 SF Demolish Non Load Bearing Partitions, Gypsum Board And Studs, Lead Contaminated Material.....	4.33	
02 83 19 13-0085 SF Removal Of Lead Paint On Brick Or Concrete Block, Lead Contaminated Material.....	4.76	
02 83 19 13-0086 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	3.68	
02 83 19 13-0087 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	4.88	
02 83 19 13-0088 SF Demolish Balustrades And Railings, Lead Contaminated Material.....	5.41	
02 83 19 13-0089 LF Demolish Up To 6" Wide Baseboard, Lead Contaminated Material.....	1.41	
02 83 19 13-0090 LF Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material.....	1.76	
02 83 19 13-0091 LF Demolish Base Shoe Molding, Lead Contaminated Material.....	1.14	
02 83 19 13-0092 SF Demolish Brick, Lead Contaminated Material.....	3.26	
02 83 19 13-0093 SF Demolish Concrete Block, Lead Contaminated Material.....	4.19	
02 83 19 13-0094 SF Demolish Concrete, Lead Contaminated Material.....	10.77	
02 83 19 13-0095 LF Demolish Cabinets, Lead Contaminated Material.....	25.08	
02 83 19 13-0096 SF Demolish Ceilings, Gypsum Board, Lead Contaminated Material.....	1.42	
02 83 19 13-0097 SF Demolish Up To 12" Diameter Columns, Lead Contaminated Material.....	13.90	
02 83 19 13-0098 SF Demolish Cornice, Lead Contaminated Material.....	1.85	
02 83 19 13-0099 EA Demolish Doors, Lead Contaminated Material.....	54.41	
02 83 19 13-0100 LF Demolish Door And Window Trim Or Frames, Lead Contaminated Material.....	1.66	
02 83 19 13-0101 EA Demolish Electrical Devices, Lead Contaminated Material.....	16.69	
02 83 19 13-0102 LF Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material.....	2.15	
02 83 19 13-0103 LF Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material.....	3.56	
02 83 19 13-0104 SF Demolish Fence, Picket, Lead Contaminated Material.....	2.05	
02 83 19 13-0105 SF Demolish Wood Floors, Lead Contaminated Material.....	2.57	
02 83 19 13-0106 SF Demolish Grilles, Lead Contaminated Material.....	3.02	
02 83 19 13-0107 EA Demolish Hinges, Lead Contaminated Material.....	6.07	
02 83 19 13-0108 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material.....	13.04	
02 83 19 13-0109 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material.....	5.35	
02 83 19 13-0110 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material.....	7.80	
02 83 19 13-0111 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material.....	11.78	
02 83 19 13-0112 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material.....	21.74	
02 83 19 13-0113 EA Demolish Radiators, Lead Contaminated Material.....	93.92	
02 83 19 13-0114 EA Demolish Shutters And Louvered, Up To 6', Lead Contaminated Material.....	36.60	
02 83 19 13-0115 SF Demolish Siding, Lead Contaminated Material.....	1.46	
02 83 19 13-0116 SF Demolish Up To 12" Wide Soffit, Lead Contaminated Material.....	1.24	
02 83 19 13-0117 SF Demolish Steel, Flat Surfaces And Tanks Up To 12', Lead Contaminated Material.....	3.39	
02 83 19 13-0118 SF Demolish Steel Beams, Lead Contaminated Material.....	3.98	
02 83 19 13-0119 SF Demolish Trusses, Lead Contaminated Material.....	5.22	
02 83 19 13-0120 SF Demolish Walls, Wood, Lead Contaminated Material.....	3.87	
02 83 19 13-0121 SF Demolish Windows, Lead Contaminated Material.....	12.99	
02 83 19 13-0122 SF Demolish Metal Stair, Lead Contaminated Material.....	6.22	
02 83 19 13-0123 LF Demolish Metal Railing And Posts, Lead Contaminated Material.....	7.46	
02 83 19 13-0124 SF Demolish Plywood, Lead Contaminated Material.....	5.62	
02 83 19 13-0125 SF Demolish Planks (Various Sizes), Lead Contaminated Material.....	2.75	
02 83 19 13-0126 SF Demolish Ceramic Tile, Walls Or Floor, Lead Contaminated Material.....	3.17	
02 83 19 13-0127 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material.....	17.14	
02 83 19 13-0128 SF Demolish Ceramic Tile Block, Lead Contaminated Material.....	3.74	
02 83 19 13-0129 LF Demolish Metal Hand Rails, Lead Contaminated Material.....	4.57	
02 83 19 13-0130 LF Demolish Metal Guard Rails, Lead Contaminated Material.....	10.29	
02 83 19 13-0131 SF Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material.....	5.48	
02 83 19 13-0132 SF Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material.....	3.94	
02 83 19 13-0133 SF Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	3.08	



Existing Conditions		02
Facility Remediation		02 80
Lead Remediation		02 83

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0134 SF Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material.....	2.40	
02 83 19 13-0135 SF Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material.....	17.14	
02 83 19 13-0136 SF Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material.....	12.19	
02 83 19 13-0137 SF Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material.....	9.14	
02 83 19 13-0138 SF Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material.....	6.86	
02 83 19 13-0139 Wet Sanding Of Lead Contaminated Material (02 83 19 13)		
02 83 19 13-0140 SF Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint.....	1.49	
02 83 19 13-0141 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0142 SF Balustrades, Lead Abatement Encapsulation.....	4.74	
02 83 19 13-0143 LF Up To 6" Wide, Baseboard, Lead Abatement Encapsulation.....	5.45	
02 83 19 13-0144 LF >6" To 12" Wide, Baseboard, Lead Abatement Encapsulation.....	7.36	
02 83 19 13-0145 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation.....	3.04	
02 83 19 13-0146 SF Ornate Cabinets, Lead Abatement Encapsulation.....	6.85	
02 83 19 13-0147 SF Simple Design Cabinets, Lead Abatement Encapsulation.....	5.57	
02 83 19 13-0148 SF Drywall Ceilings, Lead Abatement Encapsulation.....	1.90	
02 83 19 13-0149 SF Wood Ceilings, Lead Abatement Encapsulation.....	2.31	
02 83 19 13-0150 SF Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation.....	2.15	
02 83 19 13-0151 SF Columns, Lead Abatement Encapsulation.....	3.68	
02 83 19 13-0152 SF Doors, Lead Abatement Encapsulation.....	8.04	
02 83 19 13-0153 LF Up To 2" Electrical Conduit, Lead Abatement Encapsulation.....	3.09	
02 83 19 13-0154 SF Picket Fence (Brush), Lead Abatement Encapsulation.....	2.19	
02 83 19 13-0155 SF Wood Floors (Roller), Lead Abatement Encapsulation.....	1.83	
02 83 19 13-0156 SF Grilles, Vents, Lead Abatement Encapsulation.....	5.10	
02 83 19 13-0157 LF Gutters And Downspouts, Lead Abatement Encapsulation.....	4.74	
02 83 19 13-0158 EA Hangers, Lead Abatement Encapsulation.....	40.31	
02 83 19 13-0159 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	2.87	
02 83 19 13-0160 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	4.13	
02 83 19 13-0161 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	6.39	
02 83 19 13-0162 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	9.44	
02 83 19 13-0163 EA Radiators, Lead Abatement Encapsulation.....	172.46	
02 83 19 13-0164 EA Up To 6' Shutters, Lead Abatement Encapsulation.....	149.01	
02 83 19 13-0165 SF Siding, Lead Abatement Encapsulation.....	2.62	
02 83 19 13-0166 SF Up To 12" Soffit, Lead Abatement Encapsulation.....	3.68	
02 83 19 13-0167 SF Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.04	
02 83 19 13-0168 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	3.98	
02 83 19 13-0169 SF Trusses, Lead Abatement Encapsulation.....	3.98	
02 83 19 13-0170 SF Drywall Walls, Lead Abatement Encapsulation.....	1.69	
02 83 19 13-0171 SF Wood Walls, Lead Abatement Encapsulation.....	2.08	
02 83 19 13-0172 EA Window Without Grille, Lead Abatement Encapsulation.....	149.28	
02 83 19 13-0173 EA Window With Grille, Lead Abatement Encapsulation.....	175.43	
02 83 19 13-0174 LF Frames And Trim, Lead Abatement Encapsulation.....	2.70	
02 83 19 13-0175 LF Steel Lintels, Lead Abatement Encapsulation.....	3.10	
02 83 33 Removal and Disposal of Material Containing Lead (02 83)		
02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)		
02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)		
02 83 33 13-0002 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Mild Detergent.....	0.24	
02 83 33 13-0003 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Tri-Sodium Phosphate.....	0.27	
02 83 33 13-0004 SF HEPA Vacuum And Shampoo Lead Contaminated Carpeting.....	1.08	
02 84 Polychlorinate Biphenyl Remediation (02 80)		
02 84 16 Handling Of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)		
02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)		
Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.		
02 84 16 00-0002 EA Removal Of TSCA-Exempt PCB And Non-PCB Ballast From A Demolished Fixture For Recycling.....	8.32	
02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)		
Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.		
02 84 16 00-0004 EA Recycle Non-PCB Ballast Removed From Up To 4' Length Fixtures.....	0.88	
02 84 16 00-0005 EA Recycle Non-PCB Ballast Removed From >4' To 8' Length Fixtures.....	1.32	
02 84 16 00-0006 EA Recycle TSCA-Exempt PCB Ballast Removed From Up To 4' Length Fixtures.....	4.11	
02 84 16 00-0007 EA Recycle TSCA-Exempt PCB Ballast Removed From >4' To 8' Length Fixtures.....	9.39	
02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)		
Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.		

02	Existing Conditions
02 80	Facility Remediation
02 84	Polychlorinate Biphenyl Remediation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 84 16 00-0009	EA	Dispose Of Leaking Non-PCB Ballast Removed From Up To 4' Length Fixtures.....	2.20	
02 84 16 00-0010	EA	Dispose Of Leaking Non-PCB Ballast Removed From >4' To 8' Length Fixtures.....	3.30	
02 84 16 00-0011	EA	Dispose Of Leaking PCB Ballast Removed From Up To 4' Length Fixtures.....	6.16	
02 84 16 00-0012	EA	Dispose Of Leaking PCB Ballast Removed From >4' To 8' Length Fixtures.....	14.08	
02 84 33 Removal and Disposal of Polychlorinate Biphenyls (02 84)				
02 84 33 00-0001		Removal And Disposal Of Polychlorinate Biphenyls Oil Filled Transformers		
		(02 84 33) Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.		
02 84 33 00-0002	EA	Removal And Disposal Of Transformers 2.5/3.5 KVA, Non PCB.....	1,761.43	
		Note: Includes disposal costs.		
02 84 33 00-0003	EA	Removal And Disposal Of Transformers 20 KVA, Non PCB.....	2,723.39	
		Note: Includes disposal costs.		
02 84 33 00-0004	EA	Removal And Disposal Of Switch, Non PCB	859.31	
02 84 33 00-0005	EA	Removal And Disposal Of Transformers 2.5/3.5 KVA, PCB	3,167.09	
		Note: Includes disposal costs.		
02 84 33 00-0006	EA	Removal And Disposal Of Switch, PCB	1,779.48	
02 84 33 00-0007	EA	Removal And Disposal Of Transformers 20 KVA, PCB	4,924.96	
		Note: Includes disposal costs.		
02 87 Bio-Hazard Material Remediation (02 80)				
		Note: Tasks includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 13 Mold Remediation (02 87)				
		Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which task applies. See CSI section 01 74 19 00-0038 for hauling in excess of 25 miles to transfer or disposal site, 02 81 00 00-0000 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for solid isolation barriers, 02 89 00 00-0012 for plastic sheeting for containment construction, 02 89 00 00-0019 for decontamination chambers.		
02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)				
02 87 13 33-0001		Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)		
		Note: Treat fittings as additional lf of insulation.		
02 87 13 33-0002		Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)		
		Note: Diameter is outer size of insulation.		
02 87 13 33-0003		Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)		
		Note: Excludes encased fittings.		
02 87 13 33-0004	LF	Up To 25 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	26.74	
02 87 13 33-0005	LF	>25 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	19.96	
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	14.97	
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	11.23	
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	8.42	
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	7.32	
02 87 13 33-0010		>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)		
02 87 13 33-0011	LF	Up To 25 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	30.75	
02 87 13 33-0012	LF	>25 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	22.95	
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.21	
02 87 13 33-0014	LF	>500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.90	
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	9.68	
02 87 13 33-0016	LF	>10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	8.42	
02 87 13 33-0017		Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0018		Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)		
02 87 13 33-0019	SF	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	16.13	
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	11.47	
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	8.60	
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	6.45	
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	4.94	
02 87 13 33-0024		Surfacing Material, Mold Abatement And Disposal (02 87 13 33)		
		Note: e.g. fireproofing, acoustical plaster, etc.		
02 87 13 33-0025		Stucco, Mold Abatement And Disposal (02 87 13 33-0024)		
		Note: Remove surface coat from brown coat or remove entire assembly, including lath.		
02 87 13 33-0026	SF	Up To 100 SF, Stucco, Mold Abatement And Disposal.....	16.13	



Existing Conditions		02
Facility Remediation		02 80
Bio-Hazard Material Remediation		02 87

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0027	SF	>100 To 500 SF, Stucco, Mold Abatement And Disposal	11.47	
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	8.60	
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	6.45	
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	4.85	
02 87 13 33-0031 Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024)				
Note: Remove surface coat from brown coat or remove entire assembly, including lath.				
02 87 13 33-0032	SF	Up To 100 SF, Acoustical Plaster, Mold Abatement And Disposal	16.13	
02 87 13 33-0033	SF	>100 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal	11.47	
02 87 13 33-0034	SF	>500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal	8.60	
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	6.45	
02 87 13 33-0036	SF	>10,000 SF, Acoustical Plaster, Mold Abatement And Disposal	4.85	
02 87 13 33-0037 Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)				
02 87 13 33-0038	SF	Up To 100 SF, Gypsum Board, Mold Abatement And Disposal	5.16	
02 87 13 33-0039	SF	>100 To 500 SF, Gypsum Board, Mold Abatement And Disposal	3.71	
02 87 13 33-0040	SF	>500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	2.90	
02 87 13 33-0041	SF	>2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	2.25	
02 87 13 33-0042	SF	>10,000 SF, Gypsum Board, Mold Abatement And Disposal	1.61	
02 87 13 33-0043 Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)				
Note: Exposed surface area, includes associated overspray.				
02 87 13 33-0044	SF	Up To 100 SF, Fireproofing, Mold Abatement And Disposal	16.13	
02 87 13 33-0045	SF	>100 To 500 SF, Fireproofing, Mold Abatement And Disposal	15.80	
02 87 13 33-0046	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	11.87	
02 87 13 33-0047	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	8.90	
02 87 13 33-0048	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	6.68	
02 87 13 33-0049 Flooring, Mold Abatement And Disposal (02 87 13 33)				
Note: Includes cove base.				
02 87 13 33-0050 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)				
02 87 13 33-0051 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050)				
Note: Single layer or first of multiple layers.				
02 87 13 33-0052	SF	Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	5.86	
For Each Additional Layer, Add			1.47	
02 87 13 33-0053	SF	>100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	3.68	
For Each Additional Layer, Add			0.92	
02 87 13 33-0054	SF	>500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.99	
For Each Additional Layer, Add			0.50	
02 87 13 33-0055	SF	>2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.07	
For Each Additional Layer, Add			0.27	
02 87 13 33-0056	SF	>10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	0.79	
For Each Additional Layer, Add			0.20	
02 87 13 33-0057 Carpet, Mold Abatement And Disposal (02 87 13 33-0049)				
02 87 13 33-0058 Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)				
02 87 13 33-0059	SF	Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal	4.69	
02 87 13 33-0060	SF	>100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal	3.04	
02 87 13 33-0061	SF	>500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal	1.85	
02 87 13 33-0062	SF	>2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	1.17	
02 87 13 33-0063	SF	>10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	0.86	
02 87 13 33-0064 Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)				
02 87 13 33-0065	SF	Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal	5.16	
Note: Includes tack strips.				
02 87 13 33-0066	SF	>100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal	3.44	
Note: Includes tack strips.				
02 87 13 33-0067	SF	>500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal	2.46	
Note: Includes tack strips.				
02 87 13 33-0068	SF	>2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal	1.91	
Note: Includes tack strips.				
02 87 13 33-0069	SF	>10,000 SF, Carpet And Pad, Mold Abatement And Disposal	1.44	
Note: Includes tack strips.				
02 87 13 33-0070 Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)				
02 87 13 33-0071	SF	Up To 100 SF, Subflooring, Mold Abatement And Disposal	6.83	
02 87 13 33-0072	SF	>100 To 500 SF, Subflooring, Mold Abatement And Disposal	4.27	
02 87 13 33-0073	SF	>500 To 2,500 SF, Subflooring, Mold Abatement And Disposal	2.67	
02 87 13 33-0074	SF	>2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal	1.55	
02 87 13 33-0075	SF	>10,000 SF, Subflooring, Mold Abatement And Disposal	0.92	

02	Existing Conditions
02 80	Facility Remediation
02 87	Bio-Hazard Material Remediation



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 87 13 33-0076	Siding, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0077	Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076)	
	Note: Includes detachment of mounted objects before removal.	
02 87 13 33-0078	SF Up To 100 SF, Interior Paneling, Mold Abatement And Disposal	5.16
	Note: Includes detachment of mounted objects before removal.	
02 87 13 33-0079	SF >100 To 500 SF, Interior Paneling, Mold Abatement And Disposal	3.67
	Note: Includes detachment of mounted objects before removal.	
02 87 13 33-0080	SF >500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal	2.53
	Note: Includes detachment of mounted objects before removal.	
02 87 13 33-0081	SF >2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal	1.41
	Note: Includes detachment of mounted objects before removal.	
02 87 13 33-0082	SF >10,000 SF, Interior Paneling, Mold Abatement And Disposal	1.03
	Note: Includes detachment of mounted objects before removal.	
02 87 13 33-0083	Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)	
02 87 13 33-0084	SF Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	7.17
02 87 13 33-0085	SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	4.61
02 87 13 33-0086	SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	3.15
02 87 13 33-0087	SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.06
02 87 13 33-0088	SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	1.85
02 87 13 33-0089	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0090	Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)	
02 87 13 33-0091	CF Up To 10 CF, Contaminated Debris, Mold Abatement And Disposal	29.75
02 87 13 33-0092	CF >10 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	17.85
02 87 13 33-0093	CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	11.90
02 87 13 33-0094	CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	8.92
02 87 13 33-0095	CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	7.14
02 87 13 33-0096	CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	3.90
02 87 13 33-0097	CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	3.50
02 87 13 33-0098	Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0099	Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098)	
	Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.	
02 87 13 33-0100	LF Up To 100 LF, Wood Studs, Mold Abatement And Disposal	2.89
02 87 13 33-0101	LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal	2.08
02 87 13 33-0102	LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal	1.52
02 87 13 33-0103	LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal	1.17
02 87 13 33-0104	LF >10,000 LF, Wood Studs, Mold Abatement And Disposal	0.87
02 87 13 33-0105	Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098)	
	Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.	
02 87 13 33-0106	SF Up To 200 SF, Ceiling Tile, Mold Abatement And Disposal	8.60
02 87 13 33-0107	SF >200 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	6.45
02 87 13 33-0108	SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	2.94
02 87 13 33-0109	SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.06
02 87 13 33-0110	SF >10,000 SF, Ceiling Tile, Mold Abatement And Disposal	1.85
02 87 13 33-0111	Caulking, Mold Abatement And Disposal (02 87 13 33-0098)	
02 87 13 33-0112	LF Up To 10 LF, Caulking, Mold Abatement And Disposal	3.04
02 87 13 33-0113	LF >10 To 50 LF, Caulking, Mold Abatement And Disposal	2.58
02 87 13 33-0114	LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	1.85
02 87 13 33-0115	LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.40
02 87 13 33-0116	LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.03
02 87 13 33-0117	LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	0.84
02 87 13 33-0118	LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.72
02 87 13 33-0119	Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)	
02 87 13 33-0120	CSF Wipe Down Floors With Mild Bleach Solution	14.33
02 87 13 33-0121	CSF Wipe Down Walls With Mild Bleach Solution	16.87
02 87 13 33-0122	CSF Wipe Down Ceilings With Mild Bleach Solution	19.19
02 87 13 33-0123	CSF Wipe Down Countertops With Mild Bleach Solution	15.64
02 87 13 33-0124	CSF Wipe Down Other Surfaces With Mild Bleach Solution	19.85
02 87 13 33-0125	Cabinets (02 87 13 33-0098)	
02 87 13 33-0126	LF Up To 20 LF, Base Cabinet, Mold Abatement And Disposal	52.91
02 87 13 33-0127	LF >20 LF, Base Cabinet, Mold Abatement And Disposal	37.35
02 87 13 33-0128	LF Up To 20 LF, Wall Cabinet, Mold Abatement And Disposal	46.69
02 87 13 33-0129	LF >20 LF, Wall Cabinet, Mold Abatement And Disposal	31.13



Existing Conditions		02
Facility Remediation		02 80
Bio-Hazard Material Remediation		02 87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 87 16 Excrement Removal (02 87)**02 87 16 13 Bird Excrement Removal** (02 87 16)**02 87 16 13-0001 Bird Waste Removal** (02 87 16 13)

Note: In addition to items listed the Bio-Hazard Material Remediation note above, tasks include wetting agents and disinfection of contaminated surfaces.

02 87 16 13-0002	EA	Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	516.08
		<i>For Work In Restricted Working Space, Add</i>	154.82
02 87 16 13-0003	SF	>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	8.60
		<i>For Work In Restricted Working Space, Add</i>	2.58
02 87 16 13-0004	SF	>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	7.82
		<i>For Work In Restricted Working Space, Add</i>	2.35
02 87 16 13-0005	SF	>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	7.11
		<i>For Work In Restricted Working Space, Add</i>	2.13
02 87 16 13-0006	SF	>10,000 SF Bird Waste Removal, Up To 3" Thickness	6.46
		<i>For Work In Restricted Working Space, Add</i>	1.94

02 89 Hazmat Ancillary Tasks And Support (02 89)**02 89 00 00-0001 Barriers And Protection** (02 89)

Note: Includes removal and disposal after use.

02 89 00 00-0002 Isolation Barriers (02 89 00 00-0001)

Note: Use framing task with applicable barrier task. See CSI section 01 56 16 00-0016 for temporary stud walls.

02 89 00 00-0003	SF	1/2" Plywood For Solid Isolation Barrier.....	2.93
02 89 00 00-0004	SF	6 Mil Plastic Sheeting For Separation Barrier	0.31
02 89 00 00-0005	SF	1/2" Drywall For Solid Isolation Barrier	1.39
02 89 00 00-0006	SF	5/8" Drywall For Solid Isolation Barrier	1.53

02 89 00 00-0007 Cleaning Surfaces (02 89 00 00-0001)

Note: Other surfaces within contamination area but not contaminated by, or part of removal.

02 89 00 00-0008	SF	Up To 100 SF, Clean Asbestos Surface.....	1.25
02 89 00 00-0009	SF	>100 To 500 SF, Clean Asbestos Surface.....	0.88
02 89 00 00-0010	SF	>500 To 1,000 SF, Clean Asbestos Surface.....	0.57
02 89 00 00-0011	SF	>1,000 SF, Clean Asbestos Surface.....	0.44

02 89 00 00-0012 Hazmat Containment Construction (02 89 00 00-0001)

02 89 00 00-0013	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.31
02 89 00 00-0014	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.41
02 89 00 00-0015	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.55
02 89 00 00-0016	SF	6 Mil Plastic Anti Static And Fire And Flame Retardant Sheeting, Applied To Floors, Hazmat Containment Construction	0.49
02 89 00 00-0017	SF	6 Mil Plastic Anti Static And Fire And Flame Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.63
02 89 00 00-0018	SF	6 Mil Plastic Anti Static And Fire And Flame Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.83

02 89 00 00-0019 Decontamination Chambers (02 89)

Note: Includes removal after use.

02 89 00 00-0020	EA	Portable Personnel Decontamination Wash Facility (3 Stage)	602.23
		Note: Includes connection to negative air system.	
		<i>For Dismantling And Relocation To A Different Area, Add</i>	378.41
02 89 00 00-0021	EA	Portable Waste Decontamination Unit	385.86
		Note: Includes connection to negative air system.	
		<i>For Dismantling And Relocation To A Different Area, Add</i>	273.95

02 90 Disaster Recovery (02)

Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

02 90 50 Cleaning And Emergency Clean-up (02 90)**02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal** (02 90 50)

Note: For materials that do not require mold abatement.

02 90 50 00-0002	SY	Wet Broadloom Carpet Removal	7.19
02 90 50 00-0003	SY	Wet Carpet Tile Removal.....	1.75
02 90 50 00-0004	SF	Wet Batt Insulation Removal.....	0.15
02 90 50 00-0005	SF	Wet Ceiling Tile Removal.....	0.18
02 90 50 00-0006	SF	Single Layer, Wet Gypsum Board Removal.....	0.17
02 90 50 00-0007	SF	Double Layer, Wet Gypsum Board Removal	0.27

02 90 50 00-0008 Cleaning (02 90 50)

Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			and expendables required		
02 90 50 00-0009			Clean Furnishings (02 90 50 00-0008)		
02 90 50 00-0010	EA		Office Equipment, Exterior Wipe	25.86	
			For Medium Clean, Add	10.86	
			For Heavy Clean, Add	33.62	
02 90 50 00-0011	SF		Bookcase (Per SF Of Face Area), Light Clean	1.44	
			For Medium Clean, Add	0.60	
			For Heavy Clean, Add	1.87	
02 90 50 00-0012	LF		Shelving, Light Clean	2.59	
			For Medium Clean, Add	1.09	
			For Heavy Clean, Add	3.37	
02 90 50 00-0013	EA		Plastic Or Metal Chair, Light Clean	7.47	
			For Medium Clean, Add	3.14	
			For Heavy Clean, Add	9.71	
02 90 50 00-0014	EA		Upholstered Chair, Light Clean	24.14	
			For Medium Clean, Add	10.14	
			For Heavy Clean, Add	31.38	
02 90 50 00-0015	EA		Upholstered Sofa, Light Clean	148.86	
			For Medium Clean, Add	62.52	
			For Heavy Clean, Add	193.52	
02 90 50 00-0016	EA		Desk, Light Clean	30.46	
			For Medium Clean, Add	12.79	
			For Heavy Clean, Add	39.60	
02 90 50 00-0017	EA		Table, Light Clean	28.74	
			For Medium Clean, Add	12.07	
			For Heavy Clean, Add	37.36	
02 90 50 00-0018	EA		Two Drawer File Cabinet, Light Clean	6.30	
			For Medium Clean, Add	2.65	
			For Heavy Clean, Add	8.19	
02 90 50 00-0019	EA		Four Drawer File Cabinet, Light Clean	8.06	
			For Medium Clean, Add	3.39	
			For Heavy Clean, Add	10.48	
02 90 50 00-0020	LF		Base Cabinet, Exterior Wipe, Light Clean	6.61	
			For Medium Clean, Add	2.78	
			For Heavy Clean, Add	8.59	
02 90 50 00-0021	LF		Base Cabinet, Exterior And Interior Wipe, Light Clean	12.93	
			For Medium Clean, Add	5.43	
			For Heavy Clean, Add	16.81	
02 90 50 00-0022	LF		Wall Cabinet, Exterior Wipe, Light Clean	6.61	
			For Medium Clean, Add	2.78	
			For Heavy Clean, Add	8.59	
02 90 50 00-0023	LF		Wall Cabinet, Exterior And Interior Wipe, Light Clean	11.50	
			For Medium Clean, Add	4.83	
			For Heavy Clean, Add	14.95	
02 90 50 00-0024	EA		Picture Frame, Glass And Back, Light Clean	2.76	
			For Medium Clean, Add	1.16	
			For Heavy Clean, Add	3.59	
02 90 50 00-0025			Clean Hard Surfaces (02 90 50 00-0008)		
02 90 50 00-0026	LF		Wood, Vinyl Or Rubber Baseboard, Light Clean	0.38	
			For Medium Clean, Add	0.16	
			For Heavy Clean, Add	0.49	
02 90 50 00-0027	EA		Door And Hardware (Per Side), Light Clean	4.89	
			For Medium Clean, Add	2.05	
			For Heavy Clean, Add	6.36	
02 90 50 00-0028	EA		Detailed Door And Hardware (Per Side), Light Clean	5.55	
			For Medium Clean, Add	2.33	
			For Heavy Clean, Add	7.22	
02 90 50 00-0029	SF		Overhead Door, Light Clean	0.39	
			For Medium Clean, Add	0.16	
			For Heavy Clean, Add	0.51	
02 90 50 00-0030	SF		Mirror, Light Clean	0.29	
			For Medium Clean, Add	0.12	
			For Heavy Clean, Add	0.38	
02 90 50 00-0031	SF		Window, Light Clean	0.85	
			For Medium Clean, Add	0.36	
			For Heavy Clean, Add	1.11	
02 90 50 00-0032	LF		Handrail, Light Clean	0.75	
			For Medium Clean, Add	0.32	
			For Heavy Clean, Add	0.98	
02 90 50 00-0033	LF		Bumper Rail, Light Clean	0.40	
			For Medium Clean, Add	0.17	
			For Heavy Clean, Add	0.52	
02 90 50 00-0034	SF		Hard Floor, Light Clean	0.33	
			For Medium Clean, Add	0.14	
			For Heavy Clean, Add	0.43	
02 90 50 00-0035	SF		Carpet, Light Clean	0.34	
			For Medium Clean, Add	0.14	
			For Heavy Clean, Add	0.44	
02 90 50 00-0036	SF		Hard Ceiling, Light Clean	0.27	
			For Medium Clean, Add	0.11	
			For Heavy Clean, Add	0.35	



Existing Conditions		02
Disaster Recovery		02 90
Cleaning And Emergency Clean-up		02 90 50

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean.....	0.29	
For Medium Clean, Add	0.12	
For Heavy Clean, Add	0.38	
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean.....	0.24	
For Medium Clean, Add	0.10	
For Heavy Clean, Add	0.31	
02 90 50 00-0039 SF Wall, Light Clean.....	0.17	
For Medium Clean, Add	0.07	
For Heavy Clean, Add	0.22	
02 90 50 00-0040 SF Masonry Wall, Light Clean.....	0.24	
For Medium Clean, Add	0.10	
For Heavy Clean, Add	0.31	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean.....	60.62	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	25.46	
For Heavy Clean, Add	78.81	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean.....	75.76	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	31.82	
For Heavy Clean, Add	98.49	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean.....	90.92	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	38.19	
For Heavy Clean, Add	118.20	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean.....	106.07	
For Medium Clean, Add	44.55	
For Heavy Clean, Add	137.89	
02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)		
02 90 50 00-0046 SF Window Blind, Light Clean.....	0.66	
For Medium Clean, Add	0.28	
For Heavy Clean, Add	0.86	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean.....	1.34	
For Medium Clean, Add	0.56	
For Heavy Clean, Add	1.74	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean.....	1.55	
For Medium Clean, Add	0.65	
For Heavy Clean, Add	2.02	
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean.....	1.42	
For Medium Clean, Add	0.60	
For Heavy Clean, Add	1.85	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean.....	1.63	
For Medium Clean, Add	0.68	
For Heavy Clean, Add	2.12	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean.....	1.73	
For Medium Clean, Add	0.73	
For Heavy Clean, Add	2.25	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean.....	1.99	
For Medium Clean, Add	0.84	
For Heavy Clean, Add	2.59	
02 90 50 00-0053 Clean Appliances (02 90 50 00-0008)		
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean.....	11.91	
For Medium Clean, Add	5.00	
For Heavy Clean, Add	15.48	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean.....	28.06	
For Medium Clean, Add	11.79	
For Heavy Clean, Add	36.48	
02 90 50 00-0056 EA Range, Outside, Light Clean.....	24.25	
For Medium Clean, Add	10.19	
For Heavy Clean, Add	31.53	
02 90 50 00-0057 Clean Plumbing (02 90 50 00-0008)		
02 90 50 00-0058 EA Water Heater, Light Clean.....	17.24	
For Medium Clean, Add	7.24	
For Heavy Clean, Add	22.41	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean.....	17.41	
For Medium Clean, Add	7.31	
For Heavy Clean, Add	22.63	
02 90 50 00-0060 EA Restroom Accessory, Light Clean.....	7.99	
For Medium Clean, Add	3.36	
For Heavy Clean, Add	10.39	
02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)		
02 90 50 00-0062 LF Baseboard Heater, Light Clean.....	5.15	
For Medium Clean, Add	2.16	
For Heavy Clean, Add	6.70	
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean.....	14.37	
For Medium Clean, Add	6.04	
For Heavy Clean, Add	18.68	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean	55.18	
For Medium Clean, Add	23.18	
For Heavy Clean, Add	71.73	
02 90 50 00-0065 EA Grille/Register, Light Clean	5.17	
For Medium Clean, Add	2.17	
For Heavy Clean, Add	6.72	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean	35.83	
For Medium Clean, Add	15.05	
For Heavy Clean, Add	46.58	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean	31.90	
For Medium Clean, Add	13.40	
For Heavy Clean, Add	41.47	
02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)		
02 90 50 00-0069 EA Electric Fan, Light Clean	21.27	
For Medium Clean, Add	8.93	
For Heavy Clean, Add	27.65	
02 90 50 00-0070 EA Ceiling Fan, Light Clean	22.99	
For Medium Clean, Add	9.66	
For Heavy Clean, Add	29.89	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean	29.89	
For Medium Clean, Add	12.55	
For Heavy Clean, Add	38.86	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean	20.98	
For Medium Clean, Add	8.81	
For Heavy Clean, Add	27.27	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean	13.79	
For Medium Clean, Add	5.79	
For Heavy Clean, Add	17.93	
02 90 50 00-0074 EA Light Fixture, Light Clean	6.32	
For Medium Clean, Add	2.65	
For Heavy Clean, Add	8.22	
02 90 50 00-0075 EA Smoke Detector, Light Clean	4.89	
For Medium Clean, Add	2.05	
For Heavy Clean, Add	6.36	
02 90 50 00-0076 EA Thermostat, Light Clean	1.72	
For Medium Clean, Add	0.72	
For Heavy Clean, Add	2.24	
02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog	0.02	
02 90 50 00-0079 Contents Manipulation (02 90 50)		
02 90 50 00-0080 SF Cover Contents With Plastic	0.19	
02 90 50 00-0081 SF Floor Protection - Adhesive Film	0.24	
02 90 50 00-0082 SF Move Contents Out And Later Reset	0.46	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer	109.38	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer	145.06	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer	133.69	
02 90 50 00-0086 Water Emergency Clean-up (02 90 50)		
02 90 50 00-0087 LF Detach Baseboard	0.62	
02 90 50 00-0088 LF Detach And Later Reset Baseboard	1.09	
02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture)	4.01	
02 90 50 00-0090 SF Water Extraction From Floor	0.41	
02 90 50 00-0091 SF Gray Water Extraction From Floor	0.68	
02 90 50 00-0092 SF Black Water Extraction From Floor	1.06	
02 90 50 00-0093 SF Tear Out Wet Non Salvageable Carpet	0.34	
02 90 50 00-0094 SF Tear Out Wet Non Salvageable Carpet, Black Water	0.40	
02 90 50 00-0095 SF Tear Out Wet Non Salvageable Glue Down Carpet	0.59	
02 90 50 00-0096 SF Tear Out Wet Non Salvageable Glue Down Carpet, Black Water	0.87	
02 90 50 00-0097 SF Tear Out Vinyl Flooring	0.82	
02 90 50 00-0098 SF Tear Out Vinyl Flooring, Black Water	1.20	
02 90 50 00-0099 SF Tear Out Wood Flooring, Black Water	3.11	
02 90 50 00-0100 SF Tear Out Laminated Wood Flooring	1.53	
02 90 50 00-0101 SF Tear Out Laminated Wood Flooring, Black Water	2.24	
02 90 50 00-0102 SF Tear Out Wet Ceiling Tile	0.25	
02 90 50 00-0103 SF Tear Out Batt Insulation	0.25	
02 90 50 00-0104 SF Tear Out Wet Gypsum Board	0.33	
02 90 50 00-0105 SF Apply Antimicrobial Agent	0.19	
02 90 50 00-0106 SF HEPA Vacuuming	0.33	
02 90 50 00-0107 Emergency Clean-up Labor (02 90 50)		
Note: Used in the performance of time and material projects. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0108 HR Cleaning And Emergency Clean Up - General Laborer (Unskilled)	24.30	
02 90 50 00-0109 HR Cleaning And Emergency Clean Up - General Laborer (Skilled)	32.40	



Existing Conditions		02
Disaster Recovery		02 90
Cleaning And Emergency Clean-up		02 90 50

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0110 HR Cleaning And Emergency Clean Up - Skilled Tradesman	59.40	
02 90 50 00-0111 HR Cleaning And Emergency Clean Up - Restoration Laborer	37.80	
02 90 50 00-0112 HR Cleaning And Emergency Clean Up - Restoration Technician.....	48.60	
02 90 50 00-0113 HR Cleaning And Emergency Clean Up - Restoration Supervisor.....	70.20	
02 90 50 00-0114 HR Cleaning And Emergency Clean Up - Restoration Project Manager.....	97.20	
02 90 50 00-0115 HR Cleaning And Emergency Clean Up - Assistant Project Manager	81.00	
02 90 50 00-0116 HR Cleaning And Emergency Clean Up - Project Manager	102.60	
02 90 50 00-0117 HR Cleaning And Emergency Clean Up - Project Director	156.60	
02 90 50 00-0118 HR Cleaning And Emergency Clean Up - Resource Coordinator	48.60	
02 90 50 00-0119 HR Cleaning And Emergency Clean Up - Project Accountant.....	81.00	
02 90 50 00-0120 HR Cleaning And Emergency Clean Up - Corrosion Technician	70.20	
02 90 50 00-0121 HR Cleaning And Emergency Clean Up - Sr. Corrosion Technician.....	81.00	
02 90 50 00-0122 HR Cleaning And Emergency Clean Up - Certified Mold Technician.....	71.28	
02 90 50 00-0123 HR Cleaning And Emergency Clean Up - Certified Mold Supervisor	81.00	
02 90 50 00-0124 HR Cleaning And Emergency Clean Up - Clerical.....	37.80	
02 90 50 00-0125 HR Cleaning And Emergency Clean Up - Biohazard Technician.....	81.00	
02 90 50 00-0126 HR Cleaning And Emergency Clean Up - Biohazard Supervisor	97.20	
02 90 50 00-0127 HR Cleaning And Emergency Clean Up - Health And Safety Officer.....	75.60	
02 90 50 00-0128 HR Cleaning And Emergency Clean Up - Resource And Logistics Coordinator.....	54.00	
02 90 50 00-0129 HR Cleaning And Emergency Clean Up - Restoration Consultant.....	156.60	
02 90 50 00-0130 Emergency Clean-up Equipment (02 90 50)		
Note: Used in the performance of time and material projects. Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0131 General Emergency Clean-up Equipment (02 90 50 00-0130)		
02 90 50 00-0132 DAY Air Compressor.....	52.81	
02 90 50 00-0133 DAY Buffer - Floor.....	35.21	
02 90 50 00-0134 DAY Carpet Cleaning Machine - Portable.....	88.02	
02 90 50 00-0135 DAY Chain Saw	41.08	
02 90 50 00-0136 EA Cleaning Kit With Mop, Broom And Bucket.....	52.81	
02 90 50 00-0137 DAY Cut Off Saw	84.08	
02 90 50 00-0138 DAY Dry Cleaning Unit - Portable	99.76	
02 90 50 00-0139 DAY Extension Cords - 220 Volt.....	29.34	
02 90 50 00-0140 DAY Extension Cords - 220 Volt Converter Box	17.60	
02 90 50 00-0141 DAY Demolition Cart, 7 Yard	52.81	
02 90 50 00-0142 EA Demolition Kit With Wheel Barrow, Shovel And Broom	88.02	
02 90 50 00-0143 DAY Dry-Ice Blasting System	410.76	
02 90 50 00-0144 DAY Fogger - Mist.....	29.34	
02 90 50 00-0145 DAY Fogger - Electric Thermal	42.25	
02 90 50 00-0146 DAY Fogger - Gas Power Thermal	105.62	
02 90 50 00-0147 JOB Gang Box, Demo/Framing (One Time Per Job).....	76.28	
02 90 50 00-0148 DAY Hand Trucks/Dollies.....	14.08	
02 90 50 00-0149 DAY Heat Gun - Shrinkwrap	46.94	
02 90 50 00-0150 DAY HEPA Negative Air Machine.....	146.70	
Note: Includes all filters.		
02 90 50 00-0151 DAY Ladder	19.95	
02 90 50 00-0152 DAY Lights - Demo, Drop, Stand, String	21.12	
02 90 50 00-0153 DAY Lights - Wobble.....	25.82	
02 90 50 00-0154 DAY Moisture Meter.....	29.34	
02 90 50 00-0155 DAY Nail Gun.....	52.81	
02 90 50 00-0156 DAY Ozone Generator	146.70	
02 90 50 00-0157 DAY PPE (Personal Protective Equipment) Mold Remediation Related	70.42	
02 90 50 00-0158 DAY Portable Generator, Up To 7,500 Watts	117.36	
02 90 50 00-0159 DAY Pressure Washer, Hot	176.04	
02 90 50 00-0160 DAY Pressure Washer, Cold.....	117.36	
02 90 50 00-0161 DAY Scaffolding - Per Section	76.28	
02 90 50 00-0162 DAY Small Tools - Tool Box.....	29.34	
02 90 50 00-0163 DAY Soda Blasting Equipment	264.06	
02 90 50 00-0164 DAY Sprayer - Hudson.....	9.39	
02 90 50 00-0165 DAY Sprayer - Industrial Airless.....	157.66	
02 90 50 00-0166 DAY Storage Space (Per SF Per Day).....	0.96	
02 90 50 00-0167 DAY Submersible Pump	29.34	
02 90 50 00-0168 DAY Trash Pump - 2" Gas Powered	146.70	
02 90 50 00-0169 DAY Vehicle, Pick-up, SUV, Car	88.02	
02 90 50 00-0170 DAY Vehicle, Van.....	146.70	
02 90 50 00-0171 DAY Vehicle, 16' Or 24' Box Truck (Inclusive Of Mileage).....	234.72	
02 90 50 00-0172 DAY Trailer - Refrigerated 40' Storage.....	146.70	
02 90 50 00-0173 DAY Trailer - Utility (Inclusive Of Mileage).....	117.36	
02 90 50 00-0174 DAY Truck Mount, Per Wand Extraction	228.85	
02 90 50 00-0175 DAY Vacuum - Backpack.....	29.34	
02 90 50 00-0176 DAY Vacuum - Shop Vacuum.....	29.34	
02 90 50 00-0177 DAY Vacuum - Commercial	88.02	
02 90 50 00-0178 DAY Vacuum - HEPA Industrial	99.76	
02 90 50 00-0179 DAY Vacuum - Upright.....	17.60	
02 90 50 00-0180 DAY Zip Walls (Per 2 Poles)	29.34	
02 90 50 00-0181 DAY 2 Way Radio	23.47	

02 90 50 00-0182 Technical/Electronics Restoration Equipment (02 90 50 00-0130)

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0183 DAY Computer - Diagnostic	29.34	
02 90 50 00-0184 WK Computer - Diagnostic	80.68	
02 90 50 00-0185 MO Computer - Diagnostic	220.05	
02 90 50 00-0186 DAY Convection Oven - Large	193.64	
02 90 50 00-0187 WK Convection Oven - Large	532.52	
02 90 50 00-0188 MO Convection Oven - Large	1,452.33	
02 90 50 00-0189 DAY Convection Oven - Small	105.62	
02 90 50 00-0190 WK Convection Oven - Small	290.47	
02 90 50 00-0191 MO Convection Oven - Small	792.18	
02 90 50 00-0192 DAY Convection Oven - Vacuum	140.83	
02 90 50 00-0193 WK Convection Oven - Vacuum	387.29	
02 90 50 00-0194 MO Convection Oven - Vacuum	1,056.24	
02 90 50 00-0195 DAY Decontamination Booth.....	193.64	
02 90 50 00-0196 WK Decontamination Booth.....	532.52	
02 90 50 00-0197 MO Decontamination Booth.....	1,452.33	
02 90 50 00-0198 DAY DI Water System.....	52.81	
02 90 50 00-0199 WK DI Water System.....	145.23	
02 90 50 00-0200 MO DI Water System.....	396.09	
02 90 50 00-0201 DAY ESD Bench Workstation	23.47	
02 90 50 00-0202 WK ESD Bench Workstation	64.55	
02 90 50 00-0203 MO ESD Bench Workstation	176.04	
02 90 50 00-0204 DAY Heater/Enclosure Control System.....	17.60	
02 90 50 00-0205 WK Heater/Enclosure Control System.....	48.41	
02 90 50 00-0206 MO Heater/Enclosure Control System.....	132.03	
02 90 50 00-0207 DAY Hi-Tech Mobile Cart/Workstation	293.40	
02 90 50 00-0208 WK Hi-Tech Mobile Cart/Workstation	806.85	
02 90 50 00-0209 MO Hi-Tech Mobile Cart/Workstation	2,200.50	
02 90 50 00-0210 DAY Micro-Blaster/Dust Collector	264.06	
02 90 50 00-0211 WK Micro-Blaster/Dust Collector	726.16	
02 90 50 00-0212 MO Micro-Blaster/Dust Collector	1,980.45	
02 90 50 00-0213 DAY Mobile Laboratory	733.50	
02 90 50 00-0214 WK Mobile Laboratory	2,017.12	
02 90 50 00-0215 MO Mobile Laboratory	5,501.25	
02 90 50 00-0216 DAY Nitrogen Enclosure Cabinet	14.08	
02 90 50 00-0217 WK Nitrogen Enclosure Cabinet	38.73	
02 90 50 00-0218 MO Nitrogen Enclosure Cabinet	105.62	
02 90 50 00-0219 DAY Odell Cleaning Station	410.76	
02 90 50 00-0220 WK Odell Cleaning Station	1,129.59	
02 90 50 00-0221 MO Odell Cleaning Station	3,080.70	
02 90 50 00-0222 DAY Parts Washer	29.34	
02 90 50 00-0223 WK Parts Washer	80.68	
02 90 50 00-0224 MO Parts Washer	220.05	
02 90 50 00-0225 DAY Ultrasonic Cleaning System	88.02	
02 90 50 00-0226 WK Ultrasonic Cleaning System	242.06	
02 90 50 00-0227 MO Ultrasonic Cleaning System	660.15	
02 90 50 00-0228 DAY Vacuum - HEPA Technical	23.47	
02 90 50 00-0229 WK Vacuum - HEPA Technical	64.55	
02 90 50 00-0230 MO Vacuum - HEPA Technical	176.04	
02 90 50 00-0231 Drying/Dehumidification Equipment (02 90 50 00-0130)		
02 90 50 00-0232 DAY Water Extraction Unit With Dual 3-Stage Vacuums, 202 CFM	146.70	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 50 00-0233 WK Water Extraction Unit With Dual 3-Stage Vacuums, 202 CFM	403.42	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 50 00-0234 MO Water Extraction Unit With Dual 3-Stage Vacuums, 202 CFM	1,100.25	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 50 00-0235 DAY 2,200 CFM Centrifugal Air Mover.....	29.34	
02 90 50 00-0236 WK 2,200 CFM Centrifugal Air Mover.....	80.68	
02 90 50 00-0237 MO 2,200 CFM Centrifugal Air Mover.....	220.05	
02 90 50 00-0238 DAY 3,000 CFM Axial Air Mover	76.28	
02 90 50 00-0239 WK 3,000 CFM Axial Air Mover	209.78	
02 90 50 00-0240 MO 3,000 CFM Axial Air Mover	572.13	
02 90 50 00-0241 DAY Injectidry System.....	181.91	
02 90 50 00-0242 WK Injectidry System.....	500.25	
02 90 50 00-0243 MO Injectidry System.....	1,364.31	
02 90 50 00-0244 DAY 1200 Drizair Refrigerant Dehumidifier	123.23	
02 90 50 00-0245 WK 1200 Drizair Refrigerant Dehumidifier	338.88	
02 90 50 00-0246 MO 1200 Drizair Refrigerant Dehumidifier	924.21	
02 90 50 00-0247 DAY 2000 Drizair Refrigerant Dehumidifier	146.70	
02 90 50 00-0248 WK 2000 Drizair Refrigerant Dehumidifier	403.42	
02 90 50 00-0249 MO 2000 Drizair Refrigerant Dehumidifier	1,100.25	
02 90 50 00-0250 DAY 2400 Drizair Refrigerant Dehumidifier	170.17	
02 90 50 00-0251 WK 2400 Drizair Refrigerant Dehumidifier	467.97	
02 90 50 00-0252 MO 2400 Drizair Refrigerant Dehumidifier	1,276.29	
02 90 50 00-0253 DAY Phoenix 200 Refrigerant Dehumidifier	170.17	
02 90 50 00-0254 WK Phoenix 200 Refrigerant Dehumidifier	467.97	
02 90 50 00-0255 MO Phoenix 200 Refrigerant Dehumidifier	1,276.29	
02 90 50 00-0256 DAY Phoenix 300 Refrigerant Dehumidifier	181.91	
02 90 50 00-0257 WK Phoenix 300 Refrigerant Dehumidifier	500.25	
02 90 50 00-0258 MO Phoenix 300 Refrigerant Dehumidifier	1,364.31	



Existing Conditions			02
Disaster Recovery			02 90
Cleaning And Emergency Clean-up			02 90 50

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0259 DAY D-500 Desiccant Dehumidifier	410.76	
02 90 50 00-0260 WK D-500 Desiccant Dehumidifier	1,129.59	
02 90 50 00-0261 MO D-500 Desiccant Dehumidifier	3,080.70	
02 90 50 00-0262 DAY D-750 Desiccant Dehumidifier	704.16	
02 90 50 00-0263 WK D-750 Desiccant Dehumidifier	1,936.44	
02 90 50 00-0264 MO D-750 Desiccant Dehumidifier	5,281.20	
02 90 50 00-0265 DAY D-1000 Desiccant Dehumidifier	792.18	
02 90 50 00-0266 WK D-1000 Desiccant Dehumidifier	2,178.50	
02 90 50 00-0267 MO D-1000 Desiccant Dehumidifier	5,941.35	
02 90 50 00-0268 DAY D-1500 Desiccant Dehumidifier	880.20	
02 90 50 00-0269 WK D-1500 Desiccant Dehumidifier	2,420.55	
02 90 50 00-0270 MO D-1500 Desiccant Dehumidifier	6,601.50	
02 90 50 00-0271 DAY D-2000 Desiccant Dehumidifier	938.88	
02 90 50 00-0272 WK D-2000 Desiccant Dehumidifier	2,581.92	
02 90 50 00-0273 MO D-2000 Desiccant Dehumidifier	7,041.60	
02 90 50 00-0274 DAY D-2250 Desiccant Dehumidifier	997.56	
02 90 50 00-0275 WK D-2250 Desiccant Dehumidifier	2,743.29	
02 90 50 00-0276 MO D-2250 Desiccant Dehumidifier	7,481.70	
02 90 50 00-0277 DAY D-3000 Desiccant Dehumidifier	1,132.52	
02 90 50 00-0278 WK D-3000 Desiccant Dehumidifier	3,114.44	
02 90 50 00-0279 MO D-3000 Desiccant Dehumidifier	8,493.93	
02 90 50 00-0280 DAY D-4500 Desiccant Dehumidifier	1,408.32	
02 90 50 00-0281 WK D-4500 Desiccant Dehumidifier	3,872.88	
02 90 50 00-0282 MO D-4500 Desiccant Dehumidifier	10,562.40	
02 90 50 00-0283 DAY D-5000 Desiccant Dehumidifier	1,584.36	
02 90 50 00-0284 WK D-5000 Desiccant Dehumidifier	4,356.99	
02 90 50 00-0285 MO D-5000 Desiccant Dehumidifier	11,882.70	
02 90 50 00-0286 DAY D-9000 Desiccant Dehumidifier	2,171.16	
02 90 50 00-0287 WK D-9000 Desiccant Dehumidifier	5,970.69	
02 90 50 00-0288 MO D-9000 Desiccant Dehumidifier	16,283.70	
02 90 50 00-0289 DAY D-10500 Desiccant Dehumidifier	2,581.92	
02 90 50 00-0290 WK D-10500 Desiccant Dehumidifier	7,100.28	
02 90 50 00-0291 MO D-10500 Desiccant Dehumidifier	19,364.40	
02 90 50 00-0292 DAY DX Unit - Heating / Air Conditioning (3.5 Ton)	410.76	
02 90 50 00-0293 WK DX Unit - Heating / Air Conditioning (3.5 Ton)	1,129.59	
02 90 50 00-0294 MO DX Unit - Heating / Air Conditioning (3.5 Ton)	3,080.70	
02 90 50 00-0295 DAY DX Unit - Heating / Air Conditioning (5 Ton)	580.93	
02 90 50 00-0296 WK DX Unit - Heating / Air Conditioning (5 Ton)	1,597.56	
02 90 50 00-0297 MO DX Unit - Heating / Air Conditioning (5 Ton)	4,356.99	
02 90 50 00-0298 DAY DX Unit - Heating / Air Conditioning (10 Ton)	704.16	
02 90 50 00-0299 WK DX Unit - Heating / Air Conditioning (10 Ton)	1,936.44	
02 90 50 00-0300 MO DX Unit - Heating / Air Conditioning (10 Ton)	5,281.20	
02 90 50 00-0301 DAY DX Unit - Heating / Air Conditioning (25 Ton)	880.20	
02 90 50 00-0302 WK DX Unit - Heating / Air Conditioning (25 Ton)	2,420.55	
02 90 50 00-0303 MO DX Unit - Heating / Air Conditioning (25 Ton)	6,601.50	
02 90 50 00-0304 DAY DX Unit - Heating / Air Conditioning (50 Ton)	1,144.26	
02 90 50 00-0305 WK DX Unit - Heating / Air Conditioning (50 Ton)	3,146.72	
02 90 50 00-0306 MO DX Unit - Heating / Air Conditioning (50 Ton)	8,581.95	
02 90 50 00-0307 DAY DX Unit - Heating / Air Conditioning (80 Ton)	1,584.36	
02 90 50 00-0308 WK DX Unit - Heating / Air Conditioning (80 Ton)	4,356.99	
02 90 50 00-0309 MO DX Unit - Heating / Air Conditioning (80 Ton)	11,882.70	
02 90 50 00-0310 DAY Flex Duct - 25'	23.47	
02 90 50 00-0311 WK Flex Duct - 25'	64.55	
02 90 50 00-0312 MO Flex Duct - 25'	176.04	
02 90 50 00-0313 DAY Hygro Thermograph	29.34	
02 90 50 00-0314 WK Hygro Thermograph	80.68	
02 90 50 00-0315 MO Hygro Thermograph	220.05	
02 90 50 00-0316 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit	5,134.50	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 50 00-0317 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit	14,119.88	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 50 00-0318 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit	38,508.75	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 50 00-0319 Power Equipment (02 90 50 00-0130)		
02 90 50 00-0320 WK Generator, Up to 65 KVA	3,051.36	
02 90 50 00-0321 WK Generator, Up to 125 KVA	3,403.44	
02 90 50 00-0322 WK Generator, Up to 250 KVA	4,459.68	
02 90 50 00-0323 WK Generator, Up to 375 KVA	5,398.56	
02 90 50 00-0324 WK Generator, Up to 440 KVA	6,806.88	
02 90 50 00-0325 WK Generator, Up to 625 KVA	8,684.64	
02 90 50 00-0326 WK Generator, Up to 800 KVA	14,787.36	
02 90 50 00-0327 WK Generator, Up to 1,000 KVA	19,247.04	
02 90 50 00-0328 WK Generator, Up to 1,500 KVA	23,941.44	
02 90 50 00-0329 EA Generator Cable/Pigtails (Per Section)	11.74	
02 90 50 00-0330 EA Sub-Distribution Panel (Spider Box)	76.28	
02 90 50 00-0331 EA Electrical Distribution Panel	234.72	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0332 EA Quad Box Strings (25' Sections)	29.34	
02 90 50 00-0333 EA 50' Power Cord For Spider Box	29.34	
02 90 50 00-0334 EA Pig Tails (Per Each)	2.93	
02 90 50 00-0335 Freight Charges (02 90 50 00-0130)		
02 90 50 00-0336 MI Freight Up To 1 Ton Pick Up Truck	1.47	
02 90 50 00-0337 MI Freight >1 Ton Pick Up Truck	2.64	
02 90 50 00-0338 MI Freight 16' Or 24' Box Truck	2.64	
02 90 50 00-0339 MI Freight Tractor Trailer	3.81	
02 90 50 00-0340 Emergency Clean-up Personal Protection Equipment (02 90 50)		
Note: Used in the performance of time and material projects. Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0341 EA Tyvek Suit	8.80	
02 90 50 00-0342 EA Cartridge - Respirator	14.08	
02 90 50 00-0343 BOX Dust Mask	31.98	
02 90 50 00-0344 PR Gloves - Cotton	5.28	
02 90 50 00-0345 BOX Gloves - Latex	15.84	
02 90 50 00-0346 PR Gloves - Leather	8.80	
02 90 50 00-0347 EA Gloves - Rubber (Heavy Duty)	4.69	
02 90 50 00-0348 PR Polycarbonate Lens Safety Goggles	8.68	
02 90 50 00-0349 EA Respirator - With One Pair Cartridges	39.80	
02 90 50 00-0350 PR Safety Glasses	3.80	
02 90 50 00-0351 EA Safety Harness (Per Person/Day)	5.87	
02 90 50 00-0352 Emergency Clean-up Expendables (02 90 50)		
Note: Used in the performance of time and material projects. Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0353 General Materials (02 90 50 00-0352)		
02 90 50 00-0354 GAL Adhesive Remover	88.02	
02 90 50 00-0355 GAL Bio-HS	25.01	
02 90 50 00-0356 GAL Biocide	31.91	
02 90 50 00-0357 EA Box - Book	4.64	
02 90 50 00-0358 EA Box - Large	7.63	
02 90 50 00-0359 GAL Bleach	4.11	
02 90 50 00-0360 EA Brush - Stainless - Small	5.61	
02 90 50 00-0361 EA Buckets - 2 ½ Gal.	6.20	
02 90 50 00-0362 EA Buckets - 5 Gallon	9.39	
02 90 50 00-0363 GAL Carpet Defoamer	24.15	
02 90 50 00-0364 GAL Carpet Pre-treat	23.20	
02 90 50 00-0365 GAL Carpet Spotter	35.04	
02 90 50 00-0366 GAL Carpet/Upholstery Cleaner	31.52	
02 90 50 00-0367 ROL Carpet Masking/Shield	77.46	
02 90 50 00-0368 EA Chem Sponge	3.46	
02 90 50 00-0369 GAL Clear Seal	88.02	
02 90 50 00-0370 GAL Coil Cleaner	28.17	
02 90 50 00-0371 EA Comfort Masks, Per Box 50	34.80	
02 90 50 00-0372 EA Coverall - Bio-Hazard	24.48	
02 90 50 00-0373 EA Decon Chamber	240.59	
02 90 50 00-0374 GAL Degreaser, All Purpose	32.86	
02 90 50 00-0375 GAL De-Foamer Liquid	35.21	
02 90 50 00-0376 EA Deodorization Membrane	84.10	
02 90 50 00-0377 GAL Deodorizer, 9D9	90.66	
02 90 50 00-0378 LB Deodorizing Gel	15.26	
02 90 50 00-0379 GAL Deodorizing Liquid	44.60	
02 90 50 00-0380 PAIL Deodorizing Block	52.81	
02 90 50 00-0381 GAL Disinfectant/Antimicrobial	56.92	
02 90 50 00-0382 GAL Disinfectant, BruClean	28.17	
02 90 50 00-0383 GAL Dryclene	35.04	
02 90 50 00-0384 GAL Duct Sealant Spray	52.81	
02 90 50 00-0385 GAL Duct Sealant, Antifungal	76.28	
02 90 50 00-0386 GAL Microbial Encapsulant (Fosters 20 - 40)	108.56	
02 90 50 00-0387 PR Ear Plugs	0.47	
02 90 50 00-0388 GAL Encapsulant	107.82	
02 90 50 00-0389 GAL Fiberlocke - Aftershock	95.75	
02 90 50 00-0390 GAL Fiberlocke - IAQ 2500	90.58	
02 90 50 00-0391 GAL Fiberlocke - IAS 6000	93.16	
02 90 50 00-0392 ROL Filter Material	76.28	
02 90 50 00-0393 EA Filter, Blue Paper Collection Bag	5.81	
02 90 50 00-0394 EA Filter, CVAC For HEPA Vacuum	264.35	
02 90 50 00-0395 EA Filter, Pre-Filter For Negative Air Machine	4.52	
02 90 50 00-0396 EA Filter, Pleated For Negative Air Machine	7.04	
02 90 50 00-0397 EA Filter, Charcoal For Negative Air Machine	35.09	
02 90 50 00-0398 EA Filter, HEPA For Negative Air Machine	223.57	
02 90 50 00-0399 EA Filter, Pleated For Dehumidifiers	8.80	
02 90 50 00-0400 GAL Floor Stripper	16.43	



Existing Conditions		02
Disaster Recovery		02 90
Cleaning And Emergency Clean-up		02 90 50

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0401 GAL Floor Wax	23.47	
02 90 50 00-0402 GAL Fogger (Thermal).....	92.71	
02 90 50 00-0403 BOX Furniture Blocks.....	117.36	
02 90 50 00-0404 EA Furniture Polish, Per Can.....	12.91	
02 90 50 00-0405 GAL Glass Cleaner	19.95	
02 90 50 00-0406 PR Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles	14.32	
02 90 50 00-0407 EA Goof Off Spray, 12 Oz	8.22	
02 90 50 00-0408 EA Halogen Light Bulbs.....	16.76	
02 90 50 00-0409 QT Hand Sanitizer	8.29	
02 90 50 00-0410 EA Hard Hats.....	6.82	
02 90 50 00-0411 BOX Hog Rings, Box Of 2,500	17.02	
02 90 50 00-0412 GAL HVAC Coal Cleaner.....	38.73	
02 90 50 00-0413 BOX Inventory Tag, Box Of 1,000	105.62	
02 90 50 00-0414 EA Knives - Utility	12.91	
02 90 50 00-0415 ROL Lay Flat Tubing, 13" (250' Roll).....	64.78	
02 90 50 00-0416 ROL Lay Flat Tubing, 20" (250' Roll).....	98.58	
02 90 50 00-0417 ROL Lay Flat Tubing, 29" (250' Roll).....	167.82	
02 90 50 00-0418 ROL Lay Flat Tubing, 39" (250' Roll).....	274.62	
02 90 50 00-0419 GAL Lemon Oil	46.94	
02 90 50 00-0420 GAL LPS 1/Mecca Lube	42.65	
02 90 50 00-0421 GAL LPS 2	45.14	
02 90 50 00-0422 GAL LPS Contact Cleaner	44.93	
02 90 50 00-0423 GAL Lubricant, Preserver (Light)	38.73	
02 90 50 00-0424 GAL Lubricant, Preserver (Heavy)	23.47	
02 90 50 00-0425 GAL Machinery Cleaning Solvent	52.81	
02 90 50 00-0426 GAL Metal Polishing Paste	11.74	
02 90 50 00-0427 GAL Microban.....	47.44	
02 90 50 00-0428 GAL Milgo	58.22	
02 90 50 00-0429 EA Mop Heads	6.87	
02 90 50 00-0430 EA Nylon Scouring Pads	1.29	
02 90 50 00-0431 GAL Odor Neutralizer	52.28	
02 90 50 00-0432 EA Packing Paper, 25 LB Bundle.....	31.10	
02 90 50 00-0433 EA Paint Brushes	5.87	
02 90 50 00-0434 ROL Paper, Corrugated/Craft	103.28	
02 90 50 00-0435 EA Putty Knives.....	5.32	
02 90 50 00-0436 ROL Red Resin Paper, 200' Roll.....	31.69	
02 90 50 00-0437 GAL Reodorant.....	99.76	
02 90 50 00-0438 EA Respirator - N95	4.66	
02 90 50 00-0439 EA Respirator - N95 With valve	5.30	
02 90 50 00-0440 PR Respirator Cartridges - 3M.....	35.58	
02 90 50 00-0441 PR Respirator Cartridges -P100	35.58	
02 90 50 00-0442 EA Respirator Cleaning Wipes, Per Box 100	28.47	
02 90 50 00-0443 GAL Restoracide.....	46.79	
02 90 50 00-0444 GAL Rust Remover	82.15	
02 90 50 00-0445 EA Saltesmo Test Samples.....	7.63	
02 90 50 00-0446 EA Sand Bag, Excluding Sand	2.00	
02 90 50 00-0447 EA Scotch-Brite 7447, Per Box 50.....	38.11	
02 90 50 00-0448 EA Sm. Scrub Brushes.....	5.61	
02 90 50 00-0449 GAL Soot Sealant, Clear.....	45.77	
02 90 50 00-0450 GAL Soot Sealant, Pigmented	46.94	
02 90 50 00-0451 ROL Shrinkwrap Plastic	56.33	
02 90 50 00-0452 EA Sponges - Dry.....	2.49	
02 90 50 00-0453 EA Spray Adhesive, Per Can.....	5.28	
02 90 50 00-0454 EA Spray Bot./Trigger.....	4.53	
02 90 50 00-0455 GAL Stain Remover	28.17	
02 90 50 00-0456 GAL Stainless Steel Cleaner	43.42	
02 90 50 00-0457 EA Stainless Steel Polish, Per Can.....	15.26	
02 90 50 00-0458 LB Sweeping Compound	18.91	
02 90 50 00-0459 ROL Tape - Duct.....	7.92	
02 90 50 00-0460 ROL Tape - Environmental (Teal)	10.96	
02 90 50 00-0461 ROL Tape - HVAC (Aluminum)	25.82	
02 90 50 00-0462 ROL Tape - Blue Masking (Painters Tape)	11.01	
02 90 50 00-0463 ROL Tape - Poly Box	4.69	
02 90 50 00-0464 LB Terry Towels.....	6.04	
02 90 50 00-0465 GAL Thermal Fog	57.68	
02 90 50 00-0466 ROL Trash Bags - Lawn And Leaf	37.56	
02 90 50 00-0467 ROL Trash Bags - 6 Mil Heavy Duty (50 Count)	103.86	
02 90 50 00-0468 EA Trisodium Phosphaste, 20 LB Pail.....	42.82	
02 90 50 00-0469 EA Vacuum Bags - Backpack.....	1.44	
02 90 50 00-0470 EA Vacuum Bags - Upright.....	1.92	
02 90 50 00-0471 GAL Vinyl And Leather Cleaner	93.89	
02 90 50 00-0472 ROL Visqueen 1 Mil	44.89	
02 90 50 00-0473 ROL Visqueen 4 Mil	92.13	
02 90 50 00-0474 ROL Visqueen 6 Mil	131.44	
02 90 50 00-0475 LB Wipes, Cotton Cloth.....	5.11	
02 90 50 00-0476 ROL 12" x 750', Wrap, Bubble / Anti-Static	73.94	
02 90 50 00-0477 EA Wyp-Alls, Case, 160 Wipes	38.73	
02 90 50 00-0478 EA Zip Wall Zippers.....	21.12	

02 90 50 00-0479 Technical/Electronics Restoration Materials (02 90 50 00-0352)

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
02 90 50 00-0480	EA	Brush - Brass		4.40	
02 90 50 00-0481	EA	Brush - Natural Bristle 1"		1.41	
02 90 50 00-0482	EA	Brush - Natural Bristle 1/2"		1.17	
02 90 50 00-0483	EA	Brush - Natural Bristle 1/4"		1.00	
02 90 50 00-0484	EA	Brush - Parts		6.10	
02 90 50 00-0485	EA	Brush - Plastic		3.17	
02 90 50 00-0486	EA	Brush - Wire Grout		5.87	
02 90 50 00-0487	EA	Brushing Tool		14.67	
02 90 50 00-0488	EA	Cleaning Swabs, Cotton		0.29	
02 90 50 00-0489	EA	Cleaning Swabs, Foam Tip		0.35	
02 90 50 00-0490	EA	Contact Restorer, Per Can		28.46	
02 90 50 00-0491	EA	Contact Spray, Per Can		19.36	
02 90 50 00-0492	UNIT	Corrosion Inhibitor Emitter - 1 CF		2.82	
02 90 50 00-0493	UNIT	Corrosion Inhibitor Emitter - 5 CF		6.45	
02 90 50 00-0494	UNIT	Corrosion Inhibitor Emitter - 10 CF		11.15	
02 90 50 00-0495	LB	Cotton Cleaning Cloths		17.60	
02 90 50 00-0496	EA	12" x 17" Dust Cloths		0.26	
02 90 50 00-0497	EA	24" x 24" Dust Cloths		0.72	
02 90 50 00-0498	EA	Deoxidizing Agent, Per Can		13.79	
02 90 50 00-0499	GAL	Electronic Grade Detergent		21.12	
02 90 50 00-0500	SHT	Inventory Labels		6.40	
02 90 50 00-0501	GAL	Isopropyl Alcohol		29.34	
02 90 50 00-0502	EA	Lubrication/Penetrating Oil, Per Can		6.45	
02 90 50 00-0503	GAL	PC Board Detergent		80.39	
02 90 50 00-0504	GAL	Rust Inhibitor, Regular Duty		31.69	
02 90 50 00-0505	GAL	Rust Inhibitor - Moderate Duty		34.62	
02 90 50 00-0506	GAL	Rust Inhibitor - Severe Duty		39.90	
02 90 50 00-0507	LB	Wipes - Lint Free Cloths		8.22	
02 90 50 00-0508	EA	Wire Marker Card		2.05	
02 90 50 00-0509	EA	Steel Wool, 16 Pad Sleeve		7.04	
02 90 50 00-0510 Board Up And Tarp Up (02 90 50)					
02 90 50 00-0511	SF	Polyethylene Tarp On Roof		0.20	
02 90 50 00-0512	SF	Temporary Plywood On Roof		1.32	
02 90 50 00-0513	SF	Temporary Plywood On Wall Or Windows		1.67	
02 90 50 00-0514 Minimum Charges (02 90 50)					
02 90 50 00-0515	EA	Minimum For Cleaning		99.76	
02 90 50 00-0516	EA	Minimum For Water Extraction		117.36	
02 90 50 00-0517	EA	Minimum For Carpet Cleaning		140.83	
02 90 50 00-0518 Document Restoration (02 90 50)					
02 90 50 00-0519	EA	Book Rebinding, Each		72.73	
02 90 50 00-0520	EA	Book Recasing, Each		36.36	
02 90 50 00-0521	EA	Boxes-MCS, 1.2 CF		7.28	
02 90 50 00-0522	EA	Boxes-MCS, 2.0 CF		9.42	
02 90 50 00-0523	EA	Boxes Bankers		11.62	
02 90 50 00-0524	EA	Boxes Standard Packout		4.34	
02 90 50 00-0525	EA	Boxes X Ray		7.28	
02 90 50 00-0526	EA	CD Scanning and Diagnostics, Each		7.28	
02 90 50 00-0527	EA	Cleaning Antique Books, Each		218.17	
02 90 50 00-0528	EA	Cleaning Catheter Roll, Per Roll		29.08	
02 90 50 00-0529	EA	Cleaning CD And DVD, Per Disc		2.92	
02 90 50 00-0530	EA	Cleaning Level 1 - Blue Prints, Each		2.92	
02 90 50 00-0531	CF	Cleaning Level 1 - Document Per CF		90.20	
02 90 50 00-0532	EA	Cleaning Level 1 - Linen, Each		2.92	
02 90 50 00-0533	EA	Cleaning Level 1 - Mylar, Each		2.92	
02 90 50 00-0534	EA	Cleaning Level 2 - Blue Print, Each		3.64	
02 90 50 00-0535	CF	Cleaning Level 2 - Document Per CF		135.27	
02 90 50 00-0536	EA	Cleaning Level 2 - Linen, Each		3.64	
02 90 50 00-0537	EA	Cleaning Level 2 - Mylar, Each		3.64	
02 90 50 00-0538	EA	Cleaning Level 3 - Blue Prints, Each		5.14	
02 90 50 00-0539	CF	Cleaning Level 3 - Document Per CF		180.39	
02 90 50 00-0540	EA	Cleaning Level 3 - Linen, Each		5.14	
02 90 50 00-0541	EA	Cleaning Level 3 - Mylar, Each		5.14	
02 90 50 00-0542	EA	Cleaning Level 4 - All Fire-Blue Print, Each		7.28	
02 90 50 00-0543	EA	Cleaning Level 4 - All Fire-Linen, Each		7.28	
02 90 50 00-0544	EA	Cleaning Level 4 - All Fire-Mylar, Each		7.28	
02 90 50 00-0545	CF	Cleaning Level 4 - Light Fire-Documnet Per CF		225.45	
02 90 50 00-0546	EA	Cleaning Level 5 - Severe Fire-Blue Print, Each		8.70	
02 90 50 00-0547	CF	Cleaning Level 5 - Severe Fire-Documnet Per CF		450.91	
02 90 50 00-0548	EA	Cleaning Level 5 - Severe Fire-Linen, Each		8.70	
02 90 50 00-0549	EA	Cleaning Level 5 - Severe Fire-Mylar, Each		8.70	
02 90 50 00-0550	EA	Cleaning Microfiche Sheets, Each		2.92	
02 90 50 00-0551	EA	Cleaning Microfiche Strips, Each		0.74	
02 90 50 00-0552	EA	Cleaning Microfilm Rolls (In House), Per Roll		72.73	
02 90 50 00-0553	EA	Cleaning Microfilm Rolls (Outside), Per Roll		101.82	



Existing Conditions		02
Disaster Recovery		02 90
Cleaning And Emergency Clean-up		02 90 50

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0554 EA Cleaning Photographs Negatives, Per Negative.....	0.74	
02 90 50 00-0555 EA Cleaning Photographs, Each	2.92	
02 90 50 00-0556 EA Cleaning Record Albums, Each	2.92	
02 90 50 00-0557 EA Cleaning VHS And Beta Tapes-In House, Each	7.28	
02 90 50 00-0558 EA Cleaning VHS And Beta Tapes-Outside, Each	29.08	
02 90 50 00-0559 EA Cleaning X Ray 1-1000, Per Film	4.34	
02 90 50 00-0560 EA Cleaning X Ray 1K-5K, Per Film.....	3.64	
02 90 50 00-0561 EA Cleaning X Ray 5K-Up, Per Film	2.92	
02 90 50 00-0562 EA Copying Clean Water, Per Page.....	0.43	
02 90 50 00-0563 EA Copying Greywater Fire, Per Page	0.79	
02 90 50 00-0564 EA Deodorization, Vapor Tech, Per Cube	7.28	
02 90 50 00-0565 EA Disinfectant-Fogging, Per Cube.....	10.20	
02 90 50 00-0566 EA Document Disposal In House No Shredding.....	23.30	
02 90 50 00-0567 EA Document Disposal In House With Shredding.....	40.11	
02 90 50 00-0568 EA Drying-MCS Center 1-50 Cubes	130.90	
02 90 50 00-0569 EA Drying-MCS Center 151-500 Cubes	101.82	
02 90 50 00-0570 EA Drying-MCS Center 500 And Up.....	87.27	
02 90 50 00-0571 EA Drying-MCS Center 51-150 Cubes	116.36	
02 90 50 00-0572 EA Drying-Onsite 1-500 Cubes	218.17	
02 90 50 00-0573 EA Drying-Onsite 501- Up Cube.....	133.84	
02 90 50 00-0574 EA Drying Antique Books, Each	29.08	
02 90 50 00-0575 EA Drying Blue Prints, Each.....	3.64	
02 90 50 00-0576 EA DVD Scanning And Diagnostics, Each	7.28	
02 90 50 00-0577 EA Freeze Drying (In House).....	101.82	
02 90 50 00-0578 EA Freeze Drying (Outside)	133.84	
02 90 50 00-0579 EA Irradiation - Gamma 0-48 Cubes (minimum charge).....	1,552.67	
02 90 50 00-0580 EA Irradiation - Gamma 49-Up Cube (per cube charge)	32.34	
02 90 50 00-0581 EA Linen Prints.....	7.28	
02 90 50 00-0582 EA Minimal Drying Jobs	711.65	
02 90 50 00-0583 EA Monthly Storage.....	72.73	
02 90 50 00-0584 EA Mylar Prints.....	7.28	
02 90 50 00-0585 EA Ozoning, Per Cube	7.28	
02 90 50 00-0586 MO Stabilization Freezer Storage, Per Cube-Per Month	10.20	
02 90 50 00-0587 MO Stabilization Freezer Storage, Per Page-Per Month	0.07	
02 90 50 00-0588 EA Wood Pallets, Each	36.36	

END OF SECTION 02

02	02	Existing Conditions
	02 90	Disaster Recovery
	02 90 50	Cleaning And Emergency Clean-up



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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		Metals	05
Common Work Results For Metals		05 05	05
Post-Installed Concrete Anchors		05 05 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 Metals

05 05 Common Work Results For Metals ⁽⁰⁵⁾

05 05 19 Post-Installed Concrete Anchors ^(05 05)

05 05 19 00-0001 Concrete And Masonry Anchors ^(05 05 19)

05 05 19 00-0002 Expansion Anchors ^(05 05 19 00-0001)
Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors ^(05 05 19 00-0002)

05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt ^(05 05 19 00-0003)
Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	9.34
	For >10 To 50, Deduct	-0.45
	For >50 To 100, Deduct	-0.90
	For >100, Deduct	-1.80
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	9.41
	For >10 To 50, Deduct	-0.45
	For >50 To 100, Deduct	-0.90
	For >100, Deduct	-1.81
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	9.70
	For >10 To 50, Deduct	-0.46
	For >50 To 100, Deduct	-0.93
	For >100, Deduct	-1.86
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.45
	For >10 To 50, Deduct	-0.54
	For >50 To 100, Deduct	-1.10
	For >100, Deduct	-2.20
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.50
	For >10 To 50, Deduct	-0.54
	For >50 To 100, Deduct	-1.10
	For >100, Deduct	-2.20
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.52
	For >10 To 50, Deduct	-0.54
	For >50 To 100, Deduct	-1.10
	For >100, Deduct	-2.20
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	11.72
	For >10 To 50, Deduct	-0.54
	For >50 To 100, Deduct	-1.11
	For >100, Deduct	-2.21
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.52
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.57
	For >100, Deduct	-3.14
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.56
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.57
	For >100, Deduct	-3.14
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.64
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.57
	For >100, Deduct	-3.14
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.86
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.58
	For >100, Deduct	-3.15
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.16
	For >10 To 50, Deduct	-0.77
	For >50 To 100, Deduct	-1.58
	For >100, Deduct	-3.17
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.26
	For >10 To 50, Deduct	-0.95
	For >50 To 100, Deduct	-1.96
	For >100, Deduct	-3.92
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.32
	For >10 To 50, Deduct	-0.95
	For >50 To 100, Deduct	-1.96
	For >100, Deduct	-3.92
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.46
	For >10 To 50, Deduct	-0.95
	For >50 To 100, Deduct	-1.96
	For >100, Deduct	-3.93
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.73
	For >10 To 50, Deduct	-0.95
	For >50 To 100, Deduct	-1.97
	For >100, Deduct	-3.94
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.00
	For >10 To 50, Deduct	-0.95
	For >50 To 100, Deduct	-1.98
	For >100, Deduct	-3.95

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	24.12	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.06	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.94	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.15	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.58	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.34	
			For >100, Deduct	-4.68	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.64	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.34	
			For >100, Deduct	-4.68	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	25.96	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.35	
			For >100, Deduct	-4.69	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.35	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.36	
			For >100, Deduct	-4.71	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.80	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.37	
			For >100, Deduct	-4.74	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.50	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.41	
			For >100, Deduct	-4.82	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	30.76	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.47	
			For >100, Deduct	-4.93	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.31	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.53	
			For >100, Deduct	-5.06	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.97	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.67	
			For >100, Deduct	-5.33	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.31	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.70	
			For >100, Deduct	-5.40	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	36.09	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.74	
			For >100, Deduct	-5.49	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.16	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.41	
			For >100, Deduct	-6.83	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	43.68	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.48	
			For >100, Deduct	-6.95	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.19	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.54	
			For >100, Deduct	-7.08	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	53.44	
			For >10 To 50, Deduct	-2.04	
			For >50 To 100, Deduct	-4.39	
			For >100, Deduct	-8.78	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.24	
			For >10 To 50, Deduct	-2.04	
			For >50 To 100, Deduct	-4.43	
			For >100, Deduct	-8.87	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	9.97	
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.84	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.22	
			For >10 To 50, Deduct	-0.45	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA	1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.61		
		For >10 To 50, Deduct	-0.46		
		For >50 To 100, Deduct	-0.95		
		For >100, Deduct	-1.90		
05 05 19 00-0044	EA	3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.62		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.13		
		For >100, Deduct	-2.26		
05 05 19 00-0045	EA	3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.84		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.13		
		For >100, Deduct	-2.27		
05 05 19 00-0046	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	12.99		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.14		
		For >100, Deduct	-2.28		
05 05 19 00-0047	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.15		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.17		
		For >100, Deduct	-2.33		
05 05 19 00-0048	EA	1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.15		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.63		
		For >100, Deduct	-3.27		
05 05 19 00-0049	EA	1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.55		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.64		
		For >100, Deduct	-3.29		
05 05 19 00-0050	EA	1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.78		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.65		
		For >100, Deduct	-3.30		
05 05 19 00-0051	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.83		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.68		
		For >100, Deduct	-3.35		
05 05 19 00-0052	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.41		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.72		
		For >100, Deduct	-3.43		
05 05 19 00-0053	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.61		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.09		
		For >100, Deduct	-4.19		
05 05 19 00-0054	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.64		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.12		
		For >100, Deduct	-4.24		
05 05 19 00-0055	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.75		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.15		
		For >100, Deduct	-4.29		
05 05 19 00-0056	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.23		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.18		
		For >100, Deduct	-4.37		
05 05 19 00-0057	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.73		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.35		
		For >100, Deduct	-4.69		
05 05 19 00-0058	EA	3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.74		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.49		
		For >100, Deduct	-4.98		
05 05 19 00-0059	EA	3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.83		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.54		
		For >100, Deduct	-5.09		
05 05 19 00-0060	EA	3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.62		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.59		
		For >100, Deduct	-5.18		
05 05 19 00-0061	EA	3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.84		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.59		
		For >100, Deduct	-5.19		
05 05 19 00-0062	EA	3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.51		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.64		
		For >100, Deduct	-5.27		
05 05 19 00-0063	EA	3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.87		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.74		
		For >100, Deduct	-5.49		

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	48.00	
For >10 To 50, Deduct	-1.13	
For >50 To 100, Deduct	-2.90	
For >100, Deduct	-5.80	
05 05 19 00-0065 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	48.78	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-3.06	
For >100, Deduct	-6.12	
05 05 19 00-0066 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	69.79	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-4.13	
For >100, Deduct	-8.26	
05 05 19 00-0067 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	78.87	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-4.36	
For >100, Deduct	-8.71	
05 05 19 00-0068 316 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
Note: Includes nut and washer.		
05 05 19 00-0069 EA 1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.19	
For >10 To 50, Deduct	-0.45	
For >50 To 100, Deduct	-0.92	
For >100, Deduct	-1.85	
05 05 19 00-0070 EA 1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	10.71	
For >10 To 50, Deduct	-0.46	
For >50 To 100, Deduct	-0.95	
For >100, Deduct	-1.91	
05 05 19 00-0071 EA 3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.31	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.15	
For >100, Deduct	-2.29	
05 05 19 00-0072 EA 3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.68	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.16	
For >100, Deduct	-2.31	
05 05 19 00-0073 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.77	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.16	
For >100, Deduct	-2.31	
05 05 19 00-0074 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.51	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 19 00-0075 EA 1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.82	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.68	
For >100, Deduct	-3.35	
05 05 19 00-0076 EA 1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.83	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.70	
For >100, Deduct	-3.40	
05 05 19 00-0077 EA 1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.66	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.49	
05 05 19 00-0078 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.12	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.52	
05 05 19 00-0079 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.24	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.23	
For >100, Deduct	-4.47	
05 05 19 00-0080 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.79	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-2.25	
For >100, Deduct	-4.49	
05 05 19 00-0081 EA 3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	39.61	
For >10 To 50, Deduct	-1.13	
For >50 To 100, Deduct	-2.69	
For >100, Deduct	-5.38	
05 05 19 00-0082 EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.91	
For >10 To 50, Deduct	-1.13	
For >50 To 100, Deduct	-2.75	
For >100, Deduct	-5.49	
05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
Note: Includes nut and washer.		
05 05 19 00-0084 EA 1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	18.25	
For >10 To 50, Deduct	-0.77	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA	1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	19.00		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.63		
		For >100, Deduct	-3.26		
05 05 19 00-0086	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	19.75		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.65		
		For >100, Deduct	-3.30		
05 05 19 00-0087	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	20.13		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.66		
		For >100, Deduct	-3.32		
05 05 19 00-0088	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.42		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.04		
		For >100, Deduct	-4.08		
05 05 19 00-0089	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	23.52		
		For >10 To 50, Deduct	-0.95		
		For >50 To 100, Deduct	-2.02		
		For >100, Deduct	-4.03		
05 05 19 00-0090	EA	3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.03		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.47		
		For >100, Deduct	-4.95		
05 05 19 00-0091	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.86		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.49		
		For >100, Deduct	-4.99		
05 05 19 00-0092	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	35.91		
		For >10 To 50, Deduct	-1.13		
		For >50 To 100, Deduct	-2.60		
		For >100, Deduct	-5.19		
05 05 19 00-0093	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	40.43		
		For >10 To 50, Deduct	-1.59		
		For >50 To 100, Deduct	-3.40		
		For >100, Deduct	-6.79		
05 05 19 00-0094	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	42.76		
		For >10 To 50, Deduct	-1.59		
		For >50 To 100, Deduct	-3.45		
		For >100, Deduct	-6.91		
05 05 19 00-0095	EA	1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	45.08		
		For >10 To 50, Deduct	-1.59		
		For >50 To 100, Deduct	-3.51		
		For >100, Deduct	-7.02		
05 05 19 00-0096	Concrete Sleeve Anchors (05 05 19 00-0002)				
05 05 19 00-0097	Zinc Plated Steel, Concrete Sleeve Anchors (05 05 19 00-0096)				
	Note: Includes nut and washer.				
05 05 19 00-0098	EA	1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.43		
		For >10 To 50, Deduct	-0.46		
		For >50 To 100, Deduct	-0.92		
		For >100, Deduct	-1.84		
05 05 19 00-0099	EA	1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.52		
		For >10 To 50, Deduct	-0.46		
		For >50 To 100, Deduct	-0.92		
		For >100, Deduct	-1.84		
05 05 19 00-0100	EA	1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.64		
		For >10 To 50, Deduct	-0.46		
		For >50 To 100, Deduct	-0.92		
		For >100, Deduct	-1.85		
05 05 19 00-0101	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	9.93		
		For >10 To 50, Deduct	-0.48		
		For >50 To 100, Deduct	-0.97		
		For >100, Deduct	-1.93		
05 05 19 00-0102	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	10.02		
		For >10 To 50, Deduct	-0.48		
		For >50 To 100, Deduct	-0.97		
		For >100, Deduct	-1.94		
05 05 19 00-0103	EA	3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.24		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.09		
		For >100, Deduct	-2.19		
05 05 19 00-0104	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.41		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.10		
		For >100, Deduct	-2.20		
05 05 19 00-0105	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	11.56		
		For >10 To 50, Deduct	-0.54		
		For >50 To 100, Deduct	-1.10		
		For >100, Deduct	-2.20		
05 05 19 00-0106	EA	1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.15		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-1.56		
		For >100, Deduct	-3.12		

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.35	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.13	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.53	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.14	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.74	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.15	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.19	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.93	
			For >100, Deduct	-3.86	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.50	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.94	
			For >100, Deduct	-3.88	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	20.74	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.95	
			For >100, Deduct	-3.89	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.40	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.96	
			For >100, Deduct	-3.92	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.59	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.31	
			For >100, Deduct	-4.63	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.17	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.33	
			For >100, Deduct	-4.65	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.69	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.34	
			For >100, Deduct	-4.68	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.52	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.36	
			For >100, Deduct	-4.72	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	10.43	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.94	
			For >100, Deduct	-1.89	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	13.29	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.14	
			For >100, Deduct	-2.29	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	14.27	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.34	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	19.57	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.64	
			For >100, Deduct	-3.29	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	21.33	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.69	
			For >100, Deduct	-3.38	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	28.58	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.14	
			For >100, Deduct	-4.28	
05 05 19 00-0125			Concrete Strike Anchors (05 05 19 00-0002)		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	9.90	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.93	
			For >100, Deduct	-1.86	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	10.06	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.93	
			For >100, Deduct	-1.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128	EA		5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	10.51	
			For >10 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.96	
05 05 19 00-0129	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	11.19	
			For >10 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-1.00	
			For >100, Deduct	-2.00	
05 05 19 00-0130	EA		3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	11.98	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.11	
			For >100, Deduct	-2.22	
05 05 19 00-0131	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	12.48	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.12	
			For >100, Deduct	-2.25	
05 05 19 00-0132	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	12.87	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.13	
			For >100, Deduct	-2.27	
05 05 19 00-0133	EA		1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	17.40	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.59	
			For >100, Deduct	-3.18	
05 05 19 00-0134	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	17.70	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.60	
			For >100, Deduct	-3.19	
05 05 19 00-0135	EA		1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	18.58	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.62	
			For >100, Deduct	-3.24	
05 05 19 00-0136	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	19.73	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.30	
05 05 19 00-0137	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	22.85	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.00	
			For >100, Deduct	-4.00	
05 05 19 00-0138	EA		5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	23.90	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.02	
			For >100, Deduct	-4.05	
05 05 19 00-0139	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	24.84	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.05	
			For >100, Deduct	-4.10	
05 05 19 00-0140	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	29.00	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.42	
			For >100, Deduct	-4.85	
05 05 19 00-0141	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	30.00	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.45	
			For >100, Deduct	-4.90	
05 05 19 00-0142			Multi-Set Drop-In Anchors (05 05 19 00-0002)		
05 05 19 00-0143			Zinc Plated Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		
05 05 19 00-0144	EA		1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	13.10	
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.28	
			For >100, Deduct	-2.56	
05 05 19 00-0145	EA		3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	16.01	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.12	
05 05 19 00-0146	EA		1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	19.40	
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-1.85	
			For >100, Deduct	-3.70	
05 05 19 00-0147	EA		5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	21.88	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.05	
			For >100, Deduct	-4.10	
05 05 19 00-0148	EA		3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	25.97	
			For >10 To 50, Deduct	-1.14	
			For >50 To 100, Deduct	-2.36	
			For >100, Deduct	-4.72	
05 05 19 00-0149			304/18-8 Stainless Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150	EA		1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	15.15	
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.33	
			For >100, Deduct	-2.66	
05 05 19 00-0151	EA		3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	19.89	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.66	
			For >100, Deduct	-3.31	
05 05 19 00-0152	EA		1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	24.51	
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-1.98	
			For >100, Deduct	-3.96	
05 05 19 00-0153	EA		5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	30.11	
			For >10 To 50, Deduct	-1.00	
			For >50 To 100, Deduct	-2.25	
			For >100, Deduct	-4.51	
05 05 19 00-0154	EA		3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor	40.12	
			For >10 To 50, Deduct	-1.14	
			For >50 To 100, Deduct	-2.71	
			For >100, Deduct	-5.42	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)					
Note: Excludes bolt, nut and washer.					
05 05 19 00-0156	EA		1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	9.57	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.85	
05 05 19 00-0157	EA		5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	10.20	
			For >10 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-0.97	
			For >100, Deduct	-1.95	
05 05 19 00-0158	EA		3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	11.53	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.10	
			For >100, Deduct	-2.20	
05 05 19 00-0159	EA		1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	16.74	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.15	
05 05 19 00-0160	EA		5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	22.72	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.99	
			For >100, Deduct	-3.99	
05 05 19 00-0161	EA		3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor	27.35	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.38	
			For >100, Deduct	-4.76	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)					
Note: Excludes lag bolt and washer.					
05 05 19 00-0163	EA		1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	9.61	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.85	
05 05 19 00-0164	EA		5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	11.44	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.10	
			For >100, Deduct	-2.20	
05 05 19 00-0165	EA		3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	11.84	
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.11	
			For >100, Deduct	-2.22	
05 05 19 00-0166	EA		1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	16.72	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.57	
			For >100, Deduct	-3.14	
05 05 19 00-0167	EA		5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	22.08	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.98	
			For >100, Deduct	-3.96	
05 05 19 00-0168	EA		3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	25.06	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.32	
			For >100, Deduct	-4.65	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)					
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)					
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA		1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	11.89	
			For >10 To 50, Deduct	-0.50	
			For >50 To 100, Deduct	-1.05	
			For >100, Deduct	-2.10	
05 05 19 00-0172	EA		5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	13.66	
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.32	
05 05 19 00-0173	EA		3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	16.97	
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.90	
05 05 19 00-0174	EA		1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	19.76	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.30	
05 05 19 00-0175	EA		1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	20.76	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.67	
			For >100, Deduct	-3.35	
05 05 19 00-0176	EA		5/8" x 7" Long Chemically Adhered Anchor Rod.....	25.69	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-2.07	
			For >100, Deduct	-4.14	
05 05 19 00-0177	EA		3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	32.97	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.52	
			For >100, Deduct	-5.04	
05 05 19 00-0178	EA		7/8" x 10" Long Chemically Adhered Anchor Rod.....	38.61	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.80	
			For >100, Deduct	-5.61	
05 05 19 00-0179	EA		1" x 11-3/4" Long Chemically Adhered Anchor Rod	52.44	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.70	
			For >100, Deduct	-7.39	
05 05 19 00-0180	EA		1-1/4" x 14" Long Chemically Adhered Anchor Rod	74.20	
			For >10 To 50, Deduct	-2.00	
			For >50 To 100, Deduct	-4.86	
			For >100, Deduct	-9.72	
05 05 19 00-0181			Chemical Adhesives For Bolts, Dowels Or Threaded Rod (05 05 19 00-0169)		
			Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
			Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA		1/4" Chemical Adhesive For Bolt Or Threaded Rod	10.25	
			For >10 To 50, Deduct	-0.50	
			For >50 To 100, Deduct	-1.01	
			For >100, Deduct	-2.02	
05 05 19 00-0183	EA		5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	11.22	
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.10	
			For >100, Deduct	-2.20	
05 05 19 00-0184	EA		3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	14.05	
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.38	
			For >100, Deduct	-2.75	
05 05 19 00-0185	EA		1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.94	
			For >10 To 50, Deduct	-0.77	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.11	
05 05 19 00-0186	EA		5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	20.34	
			For >10 To 50, Deduct	-0.95	
			For >50 To 100, Deduct	-1.94	
			For >100, Deduct	-3.87	
05 05 19 00-0187	EA		3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	24.96	
			For >10 To 50, Deduct	-1.13	
			For >50 To 100, Deduct	-2.32	
			For >100, Deduct	-4.64	
05 05 19 00-0188	EA		7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.59	
			For >10 To 50, Deduct	-1.23	
			For >50 To 100, Deduct	-2.53	
			For >100, Deduct	-5.05	
05 05 19 00-0189	EA		1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	36.43	
			For >10 To 50, Deduct	-1.59	
			For >50 To 100, Deduct	-3.30	
			For >100, Deduct	-6.59	
05 05 19 00-0190	EA		1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	41.64	
			For >10 To 50, Deduct	-1.80	
			For >50 To 100, Deduct	-3.74	
			For >100, Deduct	-7.47	
05 05 19 00-0191	EA		1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	47.50	
			For >10 To 50, Deduct	-2.00	
			For >50 To 100, Deduct	-4.19	
			For >100, Deduct	-8.39	

05 Metals**05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	51.17	
			For >10 To 50, Deduct	-2.10	
			For >50 To 100, Deduct	-4.42	
			For >100, Deduct	-8.84	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	56.08	
			For >10 To 50, Deduct	-2.19	
			For >50 To 100, Deduct	-4.68	
			For >100, Deduct	-9.36	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	65.91	
			For >10 To 50, Deduct	-2.37	
			For >50 To 100, Deduct	-5.20	
			For >100, Deduct	-10.40	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	86.27	
			For >10 To 50, Deduct	-2.46	
			For >50 To 100, Deduct	-5.85	
			For >100, Deduct	-11.69	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0199)		
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	3.57	
			For >10 To 50, Deduct	-0.17	
			For >50 To 100, Deduct	-0.35	
			For >100, Deduct	-0.69	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0199)		
			Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	9.30	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.83	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	9.34	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.83	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	9.45	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.84	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	9.35	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.83	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	9.41	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.84	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	9.54	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.92	
			For >100, Deduct	-1.84	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0198)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	9.78	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.93	
			For >100, Deduct	-1.86	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	10.02	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.93	
			For >100, Deduct	-1.87	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	10.09	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.94	
			For >100, Deduct	-1.87	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	10.21	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.94	
			For >100, Deduct	-1.88	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	10.31	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.94	
			For >100, Deduct	-1.88	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	10.52	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.89	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	10.78	
			For >10 To 50, Deduct	-0.46	
			For >50 To 100, Deduct	-0.95	
			For >100, Deduct	-1.91	



		Metals	05	05
		Common Work Results For Metals	05 05	
		Post-Installed Concrete Anchors	05 05 19	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
05 05 19 00-0214	EA 1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....		11.01	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-0.96	
	For >100, Deduct		-1.92	
05 05 19 00-0215	EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....		11.68	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-0.98	
	For >100, Deduct		-1.95	
05 05 19 00-0216	EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....		11.76	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-0.98	
	For >100, Deduct		-1.95	
05 05 19 00-0217	EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....		12.17	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-0.99	
	For >100, Deduct		-1.98	
05 05 19 00-0218	EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....		12.59	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-1.00	
	For >100, Deduct		-2.00	
05 05 19 00-0219	EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....		12.86	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-1.00	
	For >100, Deduct		-2.01	
05 05 19 00-0220	EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....		12.74	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-1.00	
	For >100, Deduct		-2.00	
05 05 19 00-0221	EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....		13.13	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-1.01	
	For >100, Deduct		-2.02	
05 05 19 00-0222	EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....		14.04	
	For >10 To 50, Deduct		-0.46	
	For >50 To 100, Deduct		-1.03	
	For >100, Deduct		-2.07	
05 05 19 00-0223	Pin Bolt Drives (05 05 19 00-0198)			
	Note: Includes drilling. Zinc plated.			
05 05 19 00-0224	EA 1/4" x 1" Pin Bolt Drive.....		5.74	
	For >10 To 50, Deduct		-0.27	
	For >50 To 100, Deduct		-0.55	
	For >100, Deduct		-1.11	
05 05 19 00-0225	EA 1/4" x 1-1/4" Pin Bolt Drive.....		5.74	
	For >10 To 50, Deduct		-0.27	
	For >50 To 100, Deduct		-0.55	
	For >100, Deduct		-1.11	
05 05 19 00-0226	EA 1/4" x 1-1/2" Pin Bolt Drive.....		5.78	
	For >10 To 50, Deduct		-0.27	
	For >50 To 100, Deduct		-0.55	
	For >100, Deduct		-1.11	
05 05 19 00-0227	EA 1/4" x 2" Pin Bolt Drive.....		5.79	
	For >10 To 50, Deduct		-0.27	
	For >50 To 100, Deduct		-0.55	
	For >100, Deduct		-1.11	
05 05 19 00-0228	Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0198)			
05 05 19 00-0229	EA 1/4" Diameter Threaded Stud Powder Actuated Anchor.....		1.63	
	For >10 To 50, Deduct		-0.06	
	For >50 To 100, Deduct		-0.14	
	For >100, Deduct		-0.27	
05 05 19 00-0230	EA 3/8" Diameter Threaded Stud Powder Actuated Anchor.....		2.16	
	For >10 To 50, Deduct		-0.08	
	For >50 To 100, Deduct		-0.17	
	For >100, Deduct		-0.34	
05 05 23	Metal Fastenings (05 05)			
05 05 23 00-0001	Hex Bolts (05 05 23)			
	Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 02 41 19 13-0157 for drilling into concrete, 02 41 19 13-0167 for drilling into brick or block, 02 41 19 13-0177 for drilling into wood or plastic, 05 05 23 00-1567 for drilling through steel.			
05 05 23 00-0002	A307B Heavy Hex Bolts (05 05 23 00-0001)			
	Note: Includes A307B heavy hex nut and two structural washers.			
05 05 23 00-0003	Plain Finish A307B Heavy Hex Bolts (05 05 23 00-0002)			
05 05 23 00-0004	EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt.....		10.78	1.13
	For >10 To 50, Deduct		-0.47	
	For >50 To 100, Deduct		-0.97	
	For >100, Deduct		-1.94	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	11.60	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.99	
For >100, Deduct	-1.99	
05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	11.62	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.99	
For >100, Deduct	-1.99	
05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	13.71	1.29
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.15	
For >100, Deduct	-2.29	
05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	12.99	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.06	
05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	15.41	1.29
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.38	
05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	18.77	1.34
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.31	
For >100, Deduct	-2.62	
05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	20.08	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.77	
05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	15.25	1.22
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.29	
05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	18.05	1.34
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.29	
For >100, Deduct	-2.58	
05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	20.81	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.80	
05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	28.36	1.48
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.64	
For >100, Deduct	-3.27	
05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	33.04	1.67
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.87	
For >100, Deduct	-3.75	
05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	36.95	1.79
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-2.05	
For >100, Deduct	-4.09	

05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts (05 05 23 00-0002)

05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	11.19	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-0.98	
For >100, Deduct	-1.97	
05 05 23 00-0020 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	11.87	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.00	
For >100, Deduct	-2.00	
05 05 23 00-0021 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	12.61	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.02	
For >100, Deduct	-2.04	
05 05 23 00-0022 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	14.70	1.29
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.17	
For >100, Deduct	-2.34	
05 05 23 00-0023 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	14.11	1.13
For >10 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.11	
05 05 23 00-0024 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	17.48	1.29
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.24	
For >100, Deduct	-2.48	
05 05 23 00-0025 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	22.35	1.34
For >10 To 50, Deduct	-0.56	
For >50 To 100, Deduct	-1.40	
For >100, Deduct	-2.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0026	EA		3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	25.86	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.06	
05 05 23 00-0027	EA		7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	18.19	1.22
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.44	
05 05 23 00-0028	EA		7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	21.36	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.37	
			For >100, Deduct	-2.74	
05 05 23 00-0029	EA		1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	25.08	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.51	
			For >100, Deduct	-3.02	
05 05 23 00-0030	EA		1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	36.11	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.83	
			For >100, Deduct	-3.66	
05 05 23 00-0031	EA		1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	36.51	1.67
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.96	
			For >100, Deduct	-3.92	
05 05 23 00-0032	EA		1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	44.97	1.79
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-2.25	
			For >100, Deduct	-4.49	
05 05 23 00-0033	A325 High Strength Structural Bolts (05 05 23 00-0001)				
05 05 23 00-0034	Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0033)				
	Note: Includes A325 heavy hex nut and structural washer.				
05 05 23 00-0035	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	10.59	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.97	
			For >100, Deduct	-1.94	
05 05 23 00-0036	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	10.77	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.97	
			For >100, Deduct	-1.94	
05 05 23 00-0037	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	11.35	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.99	
			For >100, Deduct	-1.97	
05 05 23 00-0038	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	13.73	1.29
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.15	
			For >100, Deduct	-2.29	
05 05 23 00-0039	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	15.58	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 23 00-0040	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	12.15	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.01	
			For >100, Deduct	-2.01	
05 05 23 00-0041	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	14.58	1.29
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.33	
05 05 23 00-0042	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	16.34	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.50	
05 05 23 00-0043	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	19.57	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.37	
			For >100, Deduct	-2.74	
05 05 23 00-0044	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.93	1.22
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.11	
			For >100, Deduct	-2.22	
05 05 23 00-0045	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	16.65	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.51	
05 05 23 00-0046	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	18.74	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.35	
			For >100, Deduct	-2.70	
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	20.22	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.87	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.22	1.27
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.35	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	18.06	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.33	
			For >100, Deduct	-2.67	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	20.60	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.89	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	25.68	1.58
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.63	
			For >100, Deduct	-3.26	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	24.67	1.58
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.60	
			For >100, Deduct	-3.21	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	27.72	1.67
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.48	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	32.15	1.79
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-1.93	
			For >100, Deduct	-3.85	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	37.34	1.91
			For >10 To 50, Deduct	-0.80	
			For >50 To 100, Deduct	-2.13	
			For >100, Deduct	-4.26	
05 05 23 00-0056 Galvanized A325 High Strength Structural Bolts (05 05 23 00-0033)					
Note: Includes A325 heavy hex nut and structural washer.					
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	10.96	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.95	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	11.08	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.98	
			For >100, Deduct	-1.96	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	12.11	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.01	
			For >100, Deduct	-2.01	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	14.27	1.29
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.32	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	15.06	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.43	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	12.50	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.02	
			For >100, Deduct	-2.03	
05 05 23 00-0063	EA		3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	15.02	1.29
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.18	
			For >100, Deduct	-2.36	
05 05 23 00-0064	EA		3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	17.02	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.53	
05 05 23 00-0065	EA		3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	21.19	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.41	
			For >100, Deduct	-2.82	
05 05 23 00-0066	EA		7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	16.03	1.22
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.33	
05 05 23 00-0067	EA		7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.89	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.29	
			For >100, Deduct	-2.57	
05 05 23 00-0068	EA		7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	20.24	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.39	
			For >100, Deduct	-2.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0069	EA		7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	24.73	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.09	
05 05 23 00-0070	EA		1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	16.85	1.27
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.43	
05 05 23 00-0071	EA		1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	21.80	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.85	
05 05 23 00-0072	EA		1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	23.73	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.04	
05 05 23 00-0073	EA		1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	29.54	1.58
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.73	
			For >100, Deduct	-3.45	
05 05 23 00-0074	EA		1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	29.38	1.58
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.44	
05 05 23 00-0075	EA		1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	31.32	1.67
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.83	
			For >100, Deduct	-3.66	
05 05 23 00-0076	EA		1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	36.28	1.79
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.06	
05 05 23 00-0077	EA		1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	41.65	1.91
			For >10 To 50, Deduct	-0.80	
			For >50 To 100, Deduct	-2.24	
			For >100, Deduct	-4.48	
05 05 23 00-0078			A490 High Strength Structural Bolts (05 05 23 00-0001)		
			Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0079			Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0078)		
05 05 23 00-0080	EA		5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	11.64	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-0.99	
			For >100, Deduct	-1.99	
05 05 23 00-0081	EA		5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	15.69	1.29
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.39	
05 05 23 00-0082	EA		5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	16.71	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.51	
05 05 23 00-0083	EA		3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	12.75	1.13
			For >10 To 50, Deduct	-0.47	
			For >50 To 100, Deduct	-1.02	
			For >100, Deduct	-2.04	
05 05 23 00-0084	EA		3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	15.25	1.29
			For >10 To 50, Deduct	-0.54	
			For >50 To 100, Deduct	-1.18	
			For >100, Deduct	-2.37	
05 05 23 00-0085	EA		3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	17.42	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.55	
05 05 23 00-0086	EA		3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	21.68	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.42	
			For >100, Deduct	-2.85	
05 05 23 00-0087	EA		7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	14.61	1.22
			For >10 To 50, Deduct	-0.51	
			For >50 To 100, Deduct	-1.13	
			For >100, Deduct	-2.26	
05 05 23 00-0088	EA		7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	16.86	1.34
			For >10 To 50, Deduct	-0.56	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.52	
05 05 23 00-0089	EA		7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	23.15	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.92	
05 05 23 00-0090	EA		1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.81	1.27
			For >10 To 50, Deduct	-0.53	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.43	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0091	EA		1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	19.85	1.41
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.38	
			For >100, Deduct	-2.76	
05 05 23 00-0092	EA		1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	22.53	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.98	
05 05 23 00-0093	EA		1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	27.52	1.58
			For >10 To 50, Deduct	-0.66	
			For >50 To 100, Deduct	-1.68	
			For >100, Deduct	-3.35	
05 05 23 00-0094	EA		1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	34.52	1.67
			For >10 To 50, Deduct	-0.70	
			For >50 To 100, Deduct	-1.91	
			For >100, Deduct	-3.82	
05 05 23 00-0095	EA		1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	36.39	1.79
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-2.03	
			For >100, Deduct	-4.06	
05 05 23 00-0096	EA		1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	38.07	1.91
			For >10 To 50, Deduct	-0.80	
			For >50 To 100, Deduct	-2.15	
			For >100, Deduct	-4.30	
05 05 23 00-0097			Hex Head Bolts (05 05 23 00-0001)		
05 05 23 00-0098			Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0099			1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0100	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.75	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0101	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.77	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0102	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.81	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0103	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.84	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0104	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.04	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0105	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.05	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0106	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.12	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0107	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.29	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0108	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.31	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0109	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.42	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0110	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.66	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0111	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.74	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0112	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.86	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0113 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.27	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0114 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.44	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0115 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.48	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0116 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0098)		
05 05 23 00-0117 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.79	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0118 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.81	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0119 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.85	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0120 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.88	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0121 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.09	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0122 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.16	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0123 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.19	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0124 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.42	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0125 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.52	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0126 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.56	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0127 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.75	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0128 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.79	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0129 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.18	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0130 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.55	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0131 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.72	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0132 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.88	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0133 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0098)		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0134 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.84	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0135 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.86	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0136 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.91	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0137 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.96	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0138 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.18	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0139 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.27	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0140 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.36	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0141 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.61	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0142 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.73	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0143 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.79	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0144 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.07	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0145 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.14	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0146 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.18	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0147 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.39	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0148 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.46	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0149 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.57	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0150 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0098)		
05 05 23 00-0151 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.88	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0152 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.96	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0153 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.97	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0154 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.23	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0155	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.34		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0156	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.43		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0157	EA	7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.84		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0158	EA	7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0159	EA	7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.04		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0160	EA	7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42		
		For >100 To 250, Deduct	-1.40		
		For >250 To 500, Deduct	-1.75		
		For >500, Deduct	-2.10		
05 05 23 00-0161	EA	7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.48		
		For >100 To 250, Deduct	-1.40		
		For >250 To 500, Deduct	-1.75		
		For >500, Deduct	-2.10		
05 05 23 00-0162	EA	7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.65		
		For >100 To 250, Deduct	-1.40		
		For >250 To 500, Deduct	-1.75		
		For >500, Deduct	-2.10		
05 05 23 00-0163	EA	7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.88		
		For >100 To 250, Deduct	-1.43		
		For >250 To 500, Deduct	-1.79		
		For >500, Deduct	-2.15		
05 05 23 00-0164	EA	7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04		
		For >100 To 250, Deduct	-1.43		
		For >250 To 500, Deduct	-1.79		
		For >500, Deduct	-2.15		
05 05 23 00-0165	EA	7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34		
		For >100 To 250, Deduct	-1.43		
		For >250 To 500, Deduct	-1.79		
		For >500, Deduct	-2.15		
05 05 23 00-0166		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)			
05 05 23 00-0167	EA	1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.82		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0168	EA	1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.91		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0169	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.00		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0170	EA	1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.26		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0171	EA	1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.35		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0172	EA	1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.44		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0173	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.73		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0174	EA	1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.84		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0175	EA	1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.02		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0176 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.21	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0177 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.23	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0178 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.39	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0179 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0180 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0181 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0182 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0183 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.45	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0184 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0185 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0186 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0098)		
05 05 23 00-0187 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.91	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0188 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.03	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0189 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.06	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0190 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.62	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0191 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.78	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0192 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.83	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0193 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.02	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0194 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0195 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.20	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0196 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.39	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0197	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0198	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0199	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.83	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0200	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0201	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.12	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0202	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.40	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0203	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0204	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.68	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0205	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.86	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0206			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0207	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0208	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.07	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0209	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.18	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0210	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.48	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0211	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.64	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0212	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.83	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0213	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0214	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.55	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0215	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.78	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0216	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.04	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0217	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.07	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0218 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.47	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0219 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.85	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0220 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.17	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0221 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0222 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.09	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0223 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.45	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0224 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0225 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.10	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0226 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0098)		
05 05 23 00-0227 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.26	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0228 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0229 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.57	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0230 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0231 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0232 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0233 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.75	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0234 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.03	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0235 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.26	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0236 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.89	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0237 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.07	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0238 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0239	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.61		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		
05 05 23 00-0240	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.43		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		
05 05 23 00-0241	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.81		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		
05 05 23 00-0242	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.48		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0243	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.86		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0244	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.37		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0245	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0246		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)			
05 05 23 00-0247	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.93		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0248	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.07		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0249	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.13		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0250	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.49		
		For >100 To 250, Deduct	-1.66		
		For >250 To 500, Deduct	-2.08		
		For >500, Deduct	-2.49		
05 05 23 00-0251	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.86		
		For >100 To 250, Deduct	-1.66		
		For >250 To 500, Deduct	-2.08		
		For >500, Deduct	-2.49		
05 05 23 00-0252	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30		
		For >100 To 250, Deduct	-1.66		
		For >250 To 500, Deduct	-2.08		
		For >500, Deduct	-2.49		
05 05 23 00-0253	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.83		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0254	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.46		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0255	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0256	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.27		
		For >100 To 250, Deduct	-1.73		
		For >250 To 500, Deduct	-2.16		
		For >500, Deduct	-2.59		
05 05 23 00-0257	EA	7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.47		
		For >100 To 250, Deduct	-1.73		
		For >250 To 500, Deduct	-2.16		
		For >500, Deduct	-2.59		
05 05 23 00-0258	EA	7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.98		
		For >100 To 250, Deduct	-1.73		
		For >250 To 500, Deduct	-2.16		
		For >500, Deduct	-2.59		
05 05 23 00-0259	EA	7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.64		
		For >100 To 250, Deduct	-1.76		
		For >250 To 500, Deduct	-2.20		
		For >500, Deduct	-2.64		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0260	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.15	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0261	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.65	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0262	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.29	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0263	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.82	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0264	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.31	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0265	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.83	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0266			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00- 0098)		
05 05 23 00-0267	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.55	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0268	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.47	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0269	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.22	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-0270	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.94	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-0271	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.60	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-0272	EA		1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.44	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0273	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.08	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0274	EA		1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.74	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0275	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.24	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0276	EA		1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.56	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0277	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.11	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0278	EA		1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.83	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0279	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.37	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0280	EA		1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.95	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0281	EA	1"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.56	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0282	EA	1"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.21	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0283	EA	1"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.78	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0284	EA	1"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.35	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0285	Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0097)				
05 05 23 00-0286	1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)				
05 05 23 00-0287	EA	1/4"	Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	5.79	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0288	EA	1/4"	Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	5.81	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0289	EA	1/4"	Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	5.84	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0290	EA	1/4"	Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	5.89	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0291	EA	1/4"	Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.11	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0292	EA	1/4"	Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.19	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0293	EA	1/4"	Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.29	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0294	EA	1/4"	Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.52	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0295	EA	1/4"	Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.64	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0296	EA	1/4"	Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.72	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0297	EA	1/4"	Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.96	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0298	EA	1/4"	Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.04	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0299	EA	1/4"	Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.11	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0300	EA	1/4"	Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.38	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0301	EA	1/4"	Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.48	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0302	EA	1/4"	Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.59	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 23 00-0303	5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)			
05 05 23 00-0304	EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.84		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		
05 05 23 00-0305	EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.86		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		
05 05 23 00-0306	EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.90		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		
05 05 23 00-0307	EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.96		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		
05 05 23 00-0308	EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.18		
	For >100 To 250, Deduct	-1.17		
	For >250 To 500, Deduct	-1.47		
	For >500, Deduct	-1.76		
05 05 23 00-0309	EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.27		
	For >100 To 250, Deduct	-1.17		
	For >250 To 500, Deduct	-1.47		
	For >500, Deduct	-1.76		
05 05 23 00-0310	EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.41		
	For >100 To 250, Deduct	-1.17		
	For >250 To 500, Deduct	-1.47		
	For >500, Deduct	-1.76		
05 05 23 00-0311	EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.65		
	For >100 To 250, Deduct	-1.20		
	For >250 To 500, Deduct	-1.51		
	For >500, Deduct	-1.81		
05 05 23 00-0312	EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.76		
	For >100 To 250, Deduct	-1.20		
	For >250 To 500, Deduct	-1.51		
	For >500, Deduct	-1.81		
05 05 23 00-0313	EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.87		
	For >100 To 250, Deduct	-1.20		
	For >250 To 500, Deduct	-1.51		
	For >500, Deduct	-1.81		
05 05 23 00-0314	EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.24		
	For >100 To 250, Deduct	-1.24		
	For >250 To 500, Deduct	-1.55		
	For >500, Deduct	-1.85		
05 05 23 00-0315	EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.28		
	For >100 To 250, Deduct	-1.24		
	For >250 To 500, Deduct	-1.55		
	For >500, Deduct	-1.85		
05 05 23 00-0316	EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.42		
	For >100 To 250, Deduct	-1.24		
	For >250 To 500, Deduct	-1.55		
	For >500, Deduct	-1.85		
05 05 23 00-0317	EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.77		
	For >100 To 250, Deduct	-1.27		
	For >250 To 500, Deduct	-1.59		
	For >500, Deduct	-1.91		
05 05 23 00-0318	EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.97		
	For >100 To 250, Deduct	-1.27		
	For >250 To 500, Deduct	-1.59		
	For >500, Deduct	-1.91		
05 05 23 00-0319	EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.16		
	For >100 To 250, Deduct	-1.27		
	For >250 To 500, Deduct	-1.59		
	For >500, Deduct	-1.91		
05 05 23 00-0320	3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)			
05 05 23 00-0321	EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.87		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		
05 05 23 00-0322	EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.89		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		
05 05 23 00-0323	EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	5.96		
	For >100 To 250, Deduct	-1.14		
	For >250 To 500, Deduct	-1.42		
	For >500, Deduct	-1.71		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0324	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.03		
		For >100 To 250, Deduct	-1.14		
		For >250 To 500, Deduct	-1.42		
		For >500, Deduct	-1.71		
05 05 23 00-0325	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.27		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0326	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.35		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0327	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.48		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0328	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.78		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0329	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.08		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0330	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.21		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0331	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.55		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0332	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.68		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0333	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.90		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0334	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.24		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0335	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.54		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0336	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.78		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0337		7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts	(05 05 23 00-0285)		
05 05 23 00-0338	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.83		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0339	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	6.89		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0340	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.04		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0341	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.32		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0342	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.43		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0343	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.54		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0344	EA	7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.84		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0345 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.44	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0346 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.70	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0347 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.94	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0348 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0349 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.19	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0350 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.52	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0351 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.70	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0352 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.87	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0354 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.91	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0355 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.99	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0356 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.08	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0357 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.38	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0358 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.52	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0359 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.66	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0360 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.96	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0361 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.42	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0362 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.45	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0363 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.93	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0364 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.11	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0365 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.57	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0366	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.15	
		For >100 To 250, Deduct		-1.43	
		For >250 To 500, Deduct		-1.79	
		For >500, Deduct		-2.15	
05 05 23 00-0367	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.42	
		For >100 To 250, Deduct		-1.43	
		For >250 To 500, Deduct		-1.79	
		For >500, Deduct		-2.15	
05 05 23 00-0368	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.51	
		For >100 To 250, Deduct		-1.43	
		For >250 To 500, Deduct		-1.79	
		For >500, Deduct		-2.15	
05 05 23 00-0369	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.15	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0370	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.61	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0371	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.26	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0372	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.50	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0373		9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts	(05 05 23 00-0285)	7.16	
05 05 23 00-0374	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	7.16	
		For >100 To 250, Deduct		-1.30	
		For >250 To 500, Deduct		-1.63	
		For >500, Deduct		-1.95	
05 05 23 00-0375	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	7.31	
		For >100 To 250, Deduct		-1.30	
		For >250 To 500, Deduct		-1.63	
		For >500, Deduct		-1.95	
05 05 23 00-0376	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	7.45	
		For >100 To 250, Deduct		-1.30	
		For >250 To 500, Deduct		-1.63	
		For >500, Deduct		-1.95	
05 05 23 00-0377	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	7.76	
		For >100 To 250, Deduct		-1.33	
		For >250 To 500, Deduct		-1.67	
		For >500, Deduct		-2.00	
05 05 23 00-0378	EA	9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	7.95	
		For >100 To 250, Deduct		-1.33	
		For >250 To 500, Deduct		-1.67	
		For >500, Deduct		-2.00	
05 05 23 00-0379	EA	9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	8.15	
		For >100 To 250, Deduct		-1.33	
		For >250 To 500, Deduct		-1.67	
		For >500, Deduct		-2.00	
05 05 23 00-0380	EA	9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	8.56	
		For >100 To 250, Deduct		-1.37	
		For >250 To 500, Deduct		-1.71	
		For >500, Deduct		-2.05	
05 05 23 00-0381	EA	9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	9.38	
		For >100 To 250, Deduct		-1.37	
		For >250 To 500, Deduct		-1.71	
		For >500, Deduct		-2.05	
05 05 23 00-0382	EA	9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	9.58	
		For >100 To 250, Deduct		-1.37	
		For >250 To 500, Deduct		-1.71	
		For >500, Deduct		-2.05	
05 05 23 00-0383	EA	9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	9.98	
		For >100 To 250, Deduct		-1.40	
		For >250 To 500, Deduct		-1.75	
		For >500, Deduct		-2.10	
05 05 23 00-0384	EA	9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.20	
		For >100 To 250, Deduct		-1.40	
		For >250 To 500, Deduct		-1.75	
		For >500, Deduct		-2.10	
05 05 23 00-0385	EA	9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	10.95	
		For >100 To 250, Deduct		-1.40	
		For >250 To 500, Deduct		-1.75	
		For >500, Deduct		-2.10	
05 05 23 00-0386	EA	9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.04	
		For >100 To 250, Deduct		-1.43	
		For >250 To 500, Deduct		-1.79	
		For >500, Deduct		-2.15	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0387	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.34	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0388	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.86	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0389	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.51	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0390	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.70	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0391	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.88	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0392	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.35	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts					(05 05 23 00-0285)
05 05 23 00-0394	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.13	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0395	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.18	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0396	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.23	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0397	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.53	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0398	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.78	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0399	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.00	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0400	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.41	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0401	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.84	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0402	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.07	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0403	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.35	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0404	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.73	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0405	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.32	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0406	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.02	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0407	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.51	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0408	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.58		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		
05 05 23 00-0409	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.63		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0410	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.29		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0411	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.25		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0412	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.59		
		For >100 To 250, Deduct	-1.63		
		For >250 To 500, Deduct	-2.03		
		For >500, Deduct	-2.44		
05 05 23 00-0413 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)					
05 05 23 00-0414	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.68		
		For >100 To 250, Deduct	-1.46		
		For >250 To 500, Deduct	-1.83		
		For >500, Deduct	-2.20		
05 05 23 00-0415	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.78		
		For >100 To 250, Deduct	-1.46		
		For >250 To 500, Deduct	-1.83		
		For >500, Deduct	-2.20		
05 05 23 00-0416	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.84		
		For >100 To 250, Deduct	-1.46		
		For >250 To 500, Deduct	-1.83		
		For >500, Deduct	-2.20		
05 05 23 00-0417	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.20		
		For >100 To 250, Deduct	-1.50		
		For >250 To 500, Deduct	-1.87		
		For >500, Deduct	-2.24		
05 05 23 00-0418	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.45		
		For >100 To 250, Deduct	-1.50		
		For >250 To 500, Deduct	-1.87		
		For >500, Deduct	-2.24		
05 05 23 00-0419	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.83		
		For >100 To 250, Deduct	-1.50		
		For >250 To 500, Deduct	-1.87		
		For >500, Deduct	-2.24		
05 05 23 00-0420	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.25		
		For >100 To 250, Deduct	-1.53		
		For >250 To 500, Deduct	-1.91		
		For >500, Deduct	-2.30		
05 05 23 00-0421	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.49		
		For >100 To 250, Deduct	-1.53		
		For >250 To 500, Deduct	-1.91		
		For >500, Deduct	-2.30		
05 05 23 00-0422	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.00		
		For >100 To 250, Deduct	-1.53		
		For >250 To 500, Deduct	-1.91		
		For >500, Deduct	-2.30		
05 05 23 00-0423	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.39		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0424	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.81		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0425	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.33		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.95		
		For >500, Deduct	-2.34		
05 05 23 00-0426	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.21		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		
05 05 23 00-0427	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.75		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		
05 05 23 00-0428	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.05		
		For >100 To 250, Deduct	-1.59		
		For >250 To 500, Deduct	-1.99		
		For >500, Deduct	-2.39		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0429 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.00	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0430 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.27	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0431 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.15	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0432 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.37	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0433 7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.19	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0435 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.31	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0436 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.48	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0437 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.81	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0438 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.31	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0439 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.64	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0440 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.04	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0441 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.63	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0442 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.07	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0443 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.45	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0444 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.82	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0445 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.39	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0446 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.12	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0447 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.81	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0448 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.85	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0449 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.01	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0450	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.69	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0451	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.26	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0452	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.84	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)					
05 05 23 00-0454	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.29	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0455	EA		1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.33	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0456	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.87	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-0457	EA		1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.35	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-0458	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.70	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-0459	EA		1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.31	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0460	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.88	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0461	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.69	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0462	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.45	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0463	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.62	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0464	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.76	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-0465	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.65	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0466	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.87	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0467	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.21	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0468	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.27	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0469	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.57	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0470	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.41	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0471	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.98	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0472			Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0473			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0474	EA		1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.80	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0475	EA		1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.86	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0476	EA		1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.89	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0477	EA		1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.95	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0478	EA		1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.16	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0479	EA		1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.23	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0480	EA		1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.29	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0481	EA		1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.46	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0482	EA		1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.65	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0483	EA		1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.82	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0484	EA		1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.07	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0485	EA		1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.17	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0486	EA		1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.29	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0487	EA		1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.54	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0488	EA		1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.77	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0489	EA		1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.88	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0490			5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0491	EA		5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.85	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0492	EA		5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.88	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0493	EA		5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.00	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0494	EA		5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.02	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0495	EA		5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.25	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0496	EA		5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.42	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0497	EA		5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.47	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0498	EA		5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.72	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0499	EA		5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.83	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0500	EA		5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.07	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0501	EA		5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.37	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0502	EA		5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.46	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0503	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.60	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0504	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.87	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0505	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.98	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0506	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.18	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0507			3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0508	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.97	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0509	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	5.98	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0510	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	5.99	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0511	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.12	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0512	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	6.37	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0513	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.50	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0514	EA	3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.62		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0515	EA	3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.15		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0516	EA	3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.30		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0517	EA	3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.33		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0518	EA	3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.55		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0519	EA	3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.72		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0520	EA	3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.45		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0521	EA	3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.79		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0522	EA	3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.13		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0523	EA	3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.90		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0524 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					
05 05 23 00-0525	EA	7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.92		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0526	EA	7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.94		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0527	EA	7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.14		
		For >100 To 250, Deduct	-1.30		
		For >250 To 500, Deduct	-1.63		
		For >500, Deduct	-1.95		
05 05 23 00-0528	EA	7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.32		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0529	EA	7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.55		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0530	EA	7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.68		
		For >100 To 250, Deduct	-1.33		
		For >250 To 500, Deduct	-1.67		
		For >500, Deduct	-2.00		
05 05 23 00-0531	EA	7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.88		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0532	EA	7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.39		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0533	EA	7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.80		
		For >100 To 250, Deduct	-1.37		
		For >250 To 500, Deduct	-1.71		
		For >500, Deduct	-2.05		
05 05 23 00-0534	EA	7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.23		
		For >100 To 250, Deduct	-1.40		
		For >250 To 500, Deduct	-1.75		
		For >500, Deduct	-2.10		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0535	EA		7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.37	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0536	EA		7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.58	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0537	EA		7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.06	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0538	EA		7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.74	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0539	EA		7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.79	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0540 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					
05 05 23 00-0541	EA		1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.05	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0542	EA		1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.20	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0543	EA		1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.30	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0544	EA		1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.55	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0545	EA		1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.72	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0546	EA		1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.09	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0547	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.53	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0548	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.74	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0549	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.90	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0550	EA		1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.33	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0551	EA		1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0552	EA		1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.24	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0553	EA		1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.78	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0554	EA		1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.97	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0555	EA		1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.51	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0556	EA	1/2"	Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.57	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0557	EA	1/2"	Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.96	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0558	EA	1/2"	Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.16	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0559	EA	1/2"	Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.13	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0560 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)					
05 05 23 00-0561	EA	9/16"	Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.19	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0562	EA	9/16"	Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.28	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0563	EA	9/16"	Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.49	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0564	EA	9/16"	Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.96	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0565	EA	9/16"	Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.03	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0566	EA	9/16"	Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.34	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0567	EA	9/16"	Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.72	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0568	EA	9/16"	Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.72	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0569	EA	9/16"	Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.92	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0570	EA	9/16"	Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.23	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0571	EA	9/16"	Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.67	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0572	EA	9/16"	Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.31	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0573	EA	9/16"	Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.40	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0574	EA	9/16"	Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.78	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0575	EA	9/16"	Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.36	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	

05 05 23 00-0576 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0577	EA		5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.32	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0578	EA		5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.42	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0579	EA		5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.65	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0580	EA		5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.14	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0581	EA		5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.42	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0582	EA		5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.57	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0583	EA		5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.85	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0584	EA		5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.34	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0585	EA		5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.56	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0586	EA		5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.95	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0587	EA		5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.19	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0588	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.67	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0589	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.99	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0590	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.54	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0591	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.77	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0592	EA		5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.92	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0593	EA		5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.01	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0594	EA		5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.09	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0595	EA		5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.10	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0596			3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0597	EA		3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.84	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0598 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.94	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0599 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.01	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0600 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.31	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0601 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.51	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0602 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.10	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0603 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.52	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0604 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.57	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0605 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.38	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0606 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.83	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0607 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.25	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0608 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.04	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0609 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.16	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0610 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.58	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0611 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.79	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0612 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.99	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0613 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.75	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0614 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.30	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0615 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.51	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0617 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.08	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0618 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.34	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0619	EA		7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....11.89 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		
05 05 23 00-0620	EA		7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....12.67 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		
05 05 23 00-0621	EA		7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....12.76 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		
05 05 23 00-0622	EA		7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....13.09 For >100 To 250, Deduct -1.69 For >250 To 500, Deduct -2.12 For >500, Deduct -2.54		
05 05 23 00-0623	EA		7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....14.97 For >100 To 250, Deduct -1.69 For >250 To 500, Deduct -2.12 For >500, Deduct -2.54		
05 05 23 00-0624	EA		7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....15.45 For >100 To 250, Deduct -1.69 For >250 To 500, Deduct -2.12 For >500, Deduct -2.54		
05 05 23 00-0625	EA		7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....16.74 For >100 To 250, Deduct -1.73 For >250 To 500, Deduct -2.16 For >500, Deduct -2.59		
05 05 23 00-0626	EA		7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....17.44 For >100 To 250, Deduct -1.73 For >250 To 500, Deduct -2.16 For >500, Deduct -2.59		
05 05 23 00-0627	EA		7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....19.27 For >100 To 250, Deduct -1.73 For >250 To 500, Deduct -2.16 For >500, Deduct -2.59		
05 05 23 00-0628	EA		7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....20.03 For >100 To 250, Deduct -1.76 For >250 To 500, Deduct -2.20 For >500, Deduct -2.64		
05 05 23 00-0629	EA		7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....21.91 For >100 To 250, Deduct -1.76 For >250 To 500, Deduct -2.20 For >500, Deduct -2.64		
05 05 23 00-0630	EA		7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....22.67 For >100 To 250, Deduct -1.76 For >250 To 500, Deduct -2.20 For >500, Deduct -2.64		
05 05 23 00-0631	EA		7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....23.43 For >100 To 250, Deduct -1.79 For >250 To 500, Deduct -2.24 For >500, Deduct -2.69		
05 05 23 00-0632	EA		7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....23.65 For >100 To 250, Deduct -1.79 For >250 To 500, Deduct -2.24 For >500, Deduct -2.69		
05 05 23 00-0633	EA		7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....23.84 For >100 To 250, Deduct -1.79 For >250 To 500, Deduct -2.24 For >500, Deduct -2.69		
05 05 23 00-0634	EA		7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....24.29 For >100 To 250, Deduct -1.79 For >250 To 500, Deduct -2.24 For >500, Deduct -2.69		
05 05 23 00-0635			1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0636	EA		1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....11.82 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0637	EA		1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....12.47 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0638	EA		1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....12.93 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		
05 05 23 00-0639	EA		1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....13.42 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0640 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.33	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0641 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.73	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0642 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.52	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0643 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.57	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0644 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.23	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0645 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.67	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0646 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.87	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-0647 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.37	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0648 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.85	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0649 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.28	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0650 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.76	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0651 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.48	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0652 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.37	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0653 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.53	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0656 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.88	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0657 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.89	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0658 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.90	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0659 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.03	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0660 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.27	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0661	EA	1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.35		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0662	EA	1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.38		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0663	EA	1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.55		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0664	EA	1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.64		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0665	EA	1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.67		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0666	EA	1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.89		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0667	EA	1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.98		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0668	EA	1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.00		
		For >100 To 250, Deduct	-1.24		
		For >250 To 500, Deduct	-1.55		
		For >500, Deduct	-1.85		
05 05 23 00-0669	EA	1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.25		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0670	EA	1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.47		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0671	EA	1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.76		
		For >100 To 250, Deduct	-1.27		
		For >250 To 500, Deduct	-1.59		
		For >500, Deduct	-1.91		
05 05 23 00-0672		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654).....	5.82		
05 05 23 00-0673	EA	5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	5.82		
		For >100 To 250, Deduct	-1.14		
		For >250 To 500, Deduct	-1.42		
		For >500, Deduct	-1.71		
05 05 23 00-0674	EA	5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.08		
		For >100 To 250, Deduct	-1.14		
		For >250 To 500, Deduct	-1.42		
		For >500, Deduct	-1.71		
05 05 23 00-0675	EA	5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.10		
		For >100 To 250, Deduct	-1.14		
		For >250 To 500, Deduct	-1.42		
		For >500, Deduct	-1.71		
05 05 23 00-0676	EA	5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.11		
		For >100 To 250, Deduct	-1.14		
		For >250 To 500, Deduct	-1.42		
		For >500, Deduct	-1.71		
05 05 23 00-0677	EA	5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.40		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0678	EA	5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.64		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0679	EA	5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.68		
		For >100 To 250, Deduct	-1.17		
		For >250 To 500, Deduct	-1.47		
		For >500, Deduct	-1.76		
05 05 23 00-0680	EA	5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.91		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		
05 05 23 00-0681	EA	5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.94		
		For >100 To 250, Deduct	-1.20		
		For >250 To 500, Deduct	-1.51		
		For >500, Deduct	-1.81		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0682 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.13	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0683 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.34	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0684 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.42	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0685 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.60	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0686 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.15	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0687 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.45	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-0688 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.73	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	

05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts

(05 05 23 00-0654)

05 05 23 00-0690 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	5.90	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0691 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	5.96	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0692 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.02	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0693 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.18	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-0694 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.42	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0695 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.55	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0696 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.64	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-0697 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	6.93	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0698 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.00	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0699 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.15	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-0700 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.38	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0701 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.60	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-0702 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	7.64	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0703	EA	3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.82	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.59	
		For >500, Deduct	-1.91	
05 05 23 00-0704	EA	3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.84	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.59	
		For >500, Deduct	-1.91	
05 05 23 00-0705	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.10	
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-1.59	
		For >500, Deduct	-1.91	
05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)				
05 05 23 00-0707	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.11	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0708	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.39	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0709	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0710	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0711	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0712	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0713	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.52	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0714	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.72	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0715	EA	7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.90	
		For >100 To 250, Deduct	-1.37	
		For >250 To 500, Deduct	-1.71	
		For >500, Deduct	-2.05	
05 05 23 00-0716	EA	7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.26	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0717	EA	7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
		For >100 To 250, Deduct	-1.40	
		For >250 To 500, Deduct	-1.75	
		For >500, Deduct	-2.10	
05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)				
05 05 23 00-0719	EA	1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.98	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0720	EA	1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.07	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0721	EA	1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.26	
		For >100 To 250, Deduct	-1.30	
		For >250 To 500, Deduct	-1.63	
		For >500, Deduct	-1.95	
05 05 23 00-0722	EA	1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.63	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	
05 05 23 00-0723	EA	1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
		For >100 To 250, Deduct	-1.33	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.00	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0724 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.03	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0725 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0726 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.35	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0727 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.56	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0728 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.82	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0729 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.05	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0730 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.07	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0731 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0732 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0733 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.52	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0734 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.52	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0735 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.66	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0736 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.69	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0737 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.77	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0738 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
(05 05 23 00-0654)		
05 05 23 00-0739 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.12	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0740 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.26	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0741 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.36	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0742 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0743 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.89	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	
05 05 23 00-0744 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0745	EA		5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.60	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0746	EA		5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.68	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0747	EA		5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-0748	EA		5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0749	EA		5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.34	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0750	EA		5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.82	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-0751	EA		5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.01	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0752	EA		5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.85	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0753	EA		5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.09	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-0754	EA		5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.61	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0755	EA		5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.01	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0756	EA		5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.91	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0757	EA		5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.98	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-0758			3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0759	EA		3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.80	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0760	EA		3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.84	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0761	EA		3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.01	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-0762	EA		3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.56	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0763	EA		3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.21	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0764	EA		3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-0765	EA		3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0766 EA 3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.06	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0767 EA 3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.91	
For >500, Deduct	-2.30	
05 05 23 00-0768 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.37	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0769 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.93	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0770 EA 3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.16	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0771 EA 3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.77	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0772 EA 3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.85	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0773 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.07	
For >100 To 250, Deduct	-1.59	
For >250 To 500, Deduct	-1.99	
For >500, Deduct	-2.39	
05 05 23 00-0774 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.57	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0775 EA 3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.81	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0776 EA 3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.94	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0777 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.01	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0778 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0779 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.97	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0780 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.24	
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.03	
For >500, Deduct	-2.44	
05 05 23 00-0781 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.56	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0782 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.96	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0783 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.18	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-0784 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.60	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0785 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.90	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0786 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.27	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
05 05 23 00-0787	EA	7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.71	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0788	EA	7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.00	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0789	EA	7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.31	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0790	EA	7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.80	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0791	EA	7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.34	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0792	EA	7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.47	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0793	EA	7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.77	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0794	EA	7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.07	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0795	EA	7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.45	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0796	EA	7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.80	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0854)				
05 05 23 00-0798	EA	1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.85	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.03	
		For >500, Deduct	-2.44	
05 05 23 00-0799	EA	1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.11	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0800	EA	1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.61	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0801	EA	1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.01	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0802	EA	1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.08	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0803	EA	1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.28	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0804	EA	1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.86	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0805	EA	1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.09	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0806	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.31	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0807	EA	1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.30	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0808	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.83	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0809	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.67	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0810	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.49	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0811	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.90	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0812	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	21.57	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0813	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.07	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0814	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.83	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-0815			304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0816			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0817	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	5.85	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0818	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	5.91	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0819	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	5.98	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0820	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.07	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0821	EA		1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.32	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0822	EA		1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.44	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0823	EA		1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.59	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0824	EA		1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.86	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0825	EA		1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.04	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0826	EA		1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.20	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0827	EA		1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.50	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0828	EA		1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.77	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0829	EA		1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.02	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0830 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.78 -1.27 -1.59 -1.91	
05 05 23 00-0831 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	12.94 -1.27 -1.59 -1.91	
05 05 23 00-0832 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	13.30 -1.27 -1.59 -1.91	
05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0834 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	5.96 -1.14 -1.42 -1.71	
05 05 23 00-0835 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.01 -1.14 -1.42 -1.71	
05 05 23 00-0836 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.13 -1.14 -1.42 -1.71	
05 05 23 00-0837 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.23 -1.14 -1.42 -1.71	
05 05 23 00-0838 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.57 -1.17 -1.47 -1.76	
05 05 23 00-0839 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.63 -1.17 -1.47 -1.76	
05 05 23 00-0840 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.93 -1.17 -1.47 -1.76	
05 05 23 00-0841 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	7.30 -1.20 -1.51 -1.81	
05 05 23 00-0842 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	7.64 -1.20 -1.51 -1.81	
05 05 23 00-0843 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	7.81 -1.20 -1.51 -1.81	
05 05 23 00-0844 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	8.49 -1.24 -1.55 -1.85	
05 05 23 00-0845 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	9.34 -1.24 -1.55 -1.85	
05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	11.28 -1.24 -1.55 -1.85	
05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	14.59 -1.27 -1.59 -1.91	
05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.10 -1.14 -1.42 -1.71	
05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	6.18 -1.14 -1.42 -1.71	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0851	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.36	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0852	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.59	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.42	
			For >500, Deduct	-1.71	
05 05 23 00-0853	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	6.88	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0854	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.07	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0855	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.31	
			For >100 To 250, Deduct	-1.17	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-1.76	
05 05 23 00-0856	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.69	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0857	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.98	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0858	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.62	
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-1.81	
05 05 23 00-0859	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.86	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0860	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.38	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0861	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.51	
			For >100 To 250, Deduct	-1.24	
			For >250 To 500, Deduct	-1.55	
			For >500, Deduct	-1.85	
05 05 23 00-0862	EA		3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.94	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0863	EA		3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.10	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0864	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.22	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.59	
			For >500, Deduct	-1.91	
05 05 23 00-0865			7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0866	EA		7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.52	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0867	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.60	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0868	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.90	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0869	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.23	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0870	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.59	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0871	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.19	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0872	EA		7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.63	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0873	EA		7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.32	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0874	EA		7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.63	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0875	EA		7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.74	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0876	EA		7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.81	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0877	EA		7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.95	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0878	EA		7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.24	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-0879			1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)	7.51	
05 05 23 00-0880	EA		1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.51	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0881	EA		1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.60	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0882	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.07	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-0883	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.41	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0884	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.84	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0885	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.07	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-0886	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.52	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0887	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.72	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0888	EA		1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.83	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-0889	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.30	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0890	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.80	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0891	EA		1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.37	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-0892	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.37	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0893 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.71	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0894 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.25	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-0895 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.03	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0896 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.24	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0897 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.72	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0898 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.19	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0899 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0900 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.96	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0901 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.93	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0902 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.63	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-0903 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.13	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0904 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.73	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0905 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.79	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-0906 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.50	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0907 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.74	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0908 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.97	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-0909 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.17	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0910 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.36	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-0911 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0912 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.15	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-0913 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.37	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0914	EA	5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	10.29	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0915	EA	5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	10.61	
		For >100 To 250, Deduct		-1.50	
		For >250 To 500, Deduct		-1.87	
		For >500, Deduct		-2.24	
05 05 23 00-0916	EA	5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	11.05	
		For >100 To 250, Deduct		-1.50	
		For >250 To 500, Deduct		-1.87	
		For >500, Deduct		-2.24	
05 05 23 00-0917	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	11.68	
		For >100 To 250, Deduct		-1.50	
		For >250 To 500, Deduct		-1.87	
		For >500, Deduct		-2.24	
05 05 23 00-0918	EA	5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	12.64	
		For >100 To 250, Deduct		-1.53	
		For >250 To 500, Deduct		-1.91	
		For >500, Deduct		-2.30	
05 05 23 00-0919	EA	5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	12.65	
		For >100 To 250, Deduct		-1.53	
		For >250 To 500, Deduct		-1.91	
		For >500, Deduct		-2.30	
05 05 23 00-0920	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	13.35	
		For >100 To 250, Deduct		-1.53	
		For >250 To 500, Deduct		-1.91	
		For >500, Deduct		-2.30	
05 05 23 00-0921	EA	5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	13.91	
		For >100 To 250, Deduct		-1.56	
		For >250 To 500, Deduct		-1.95	
		For >500, Deduct		-2.34	
05 05 23 00-0922	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	14.55	
		For >100 To 250, Deduct		-1.56	
		For >250 To 500, Deduct		-1.95	
		For >500, Deduct		-2.34	
05 05 23 00-0923	EA	5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	16.88	
		For >100 To 250, Deduct		-1.56	
		For >250 To 500, Deduct		-1.95	
		For >500, Deduct		-2.34	
05 05 23 00-0924	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	18.31	
		For >100 To 250, Deduct		-1.59	
		For >250 To 500, Deduct		-1.99	
		For >500, Deduct		-2.39	
05 05 23 00-0925	EA	5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	19.37	
		For >100 To 250, Deduct		-1.59	
		For >250 To 500, Deduct		-1.99	
		For >500, Deduct		-2.39	
05 05 23 00-0926	EA	5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	19.84	
		For >100 To 250, Deduct		-1.59	
		For >250 To 500, Deduct		-1.99	
		For >500, Deduct		-2.39	
05 05 23 00-0927	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	21.95	
		For >100 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.03	
		For >500, Deduct		-2.44	
05 05 23 00-0928	EA	5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	22.57	
		For >100 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.03	
		For >500, Deduct		-2.44	
05 05 23 00-0929	EA	5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	25.34	
		For >100 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.03	
		For >500, Deduct		-2.44	
05 05 23 00-0930	EA	5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	26.48	
		For >100 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.03	
		For >500, Deduct		-2.44	
05 05 23 00-0931		3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts	(05 05 23 00-0815)		
05 05 23 00-0932	EA	3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	10.16	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0933	EA	3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	10.59	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	
05 05 23 00-0934	EA	3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	11.16	
		For >100 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-1.83	
		For >500, Deduct		-2.20	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0935 EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....11.94 For >100 To 250, Deduct -1.50 For >250 To 500, Deduct -1.87 For >500, Deduct -2.24		
05 05 23 00-0936 EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....12.57 For >100 To 250, Deduct -1.50 For >250 To 500, Deduct -1.87 For >500, Deduct -2.24		
05 05 23 00-0937 EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....13.63 For >100 To 250, Deduct -1.50 For >250 To 500, Deduct -1.87 For >500, Deduct -2.24		
05 05 23 00-0938 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....14.43 For >100 To 250, Deduct -1.53 For >250 To 500, Deduct -1.91 For >500, Deduct -2.30		
05 05 23 00-0939 EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....15.42 For >100 To 250, Deduct -1.53 For >250 To 500, Deduct -1.91 For >500, Deduct -2.30		
05 05 23 00-0940 EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....16.21 For >100 To 250, Deduct -1.53 For >250 To 500, Deduct -1.91 For >500, Deduct -2.30		
05 05 23 00-0941 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....17.19 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0942 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....18.10 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0943 EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....19.83 For >100 To 250, Deduct -1.56 For >250 To 500, Deduct -1.95 For >500, Deduct -2.34		
05 05 23 00-0944 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....24.57 For >100 To 250, Deduct -1.59 For >250 To 500, Deduct -1.99 For >500, Deduct -2.39		
05 05 23 00-0945 EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....26.03 For >100 To 250, Deduct -1.59 For >250 To 500, Deduct -1.99 For >500, Deduct -2.39		
05 05 23 00-0946 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....29.16 For >100 To 250, Deduct -1.59 For >250 To 500, Deduct -1.99 For >500, Deduct -2.39		
05 05 23 00-0947 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....29.46 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0948 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....29.96 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0949 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....31.29 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0950 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....32.32 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0951 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0952 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....13.69 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0953 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....14.77 For >100 To 250, Deduct -1.63 For >250 To 500, Deduct -2.03 For >500, Deduct -2.44		
05 05 23 00-0954 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....15.76 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		
05 05 23 00-0955 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt16.86 For >100 To 250, Deduct -1.66 For >250 To 500, Deduct -2.08 For >500, Deduct -2.49		



		Metals	05
		Common Work Results For Metals	05 05
		Metal Fastenings	05 05 23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0956	EA	7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	17.22	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0957	EA	7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.28	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0958	EA	7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.63	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0959	EA	7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.01	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0960	EA	7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.54	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0961	EA	7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.46	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0962	EA	7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.52	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0963	EA	7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.61	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0964	EA	7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.88	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0965	EA	7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.71	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0966	EA	7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.42	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0967	EA	7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.87	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0968	EA	7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.92	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0969	EA	7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.97	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0970		1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0971	EA	1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.31	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.03	
		For >500, Deduct	-2.44	
05 05 23 00-0972	EA	1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.10	
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.03	
		For >500, Deduct	-2.44	
05 05 23 00-0973	EA	1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.44	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0974	EA	1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.43	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0975	EA	1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.07	
		For >100 To 250, Deduct	-1.66	
		For >250 To 500, Deduct	-2.08	
		For >500, Deduct	-2.49	
05 05 23 00-0976	EA	1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.06	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0977	EA	1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.20	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0978	EA	1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.88	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0979	EA	1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.64	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0980	EA	1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.73	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0981	EA	1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.24	
		For >100 To 250, Deduct	-1.73	
		For >250 To 500, Deduct	-2.16	
		For >500, Deduct	-2.59	
05 05 23 00-0982	EA	1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.11	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0983	EA	1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.96	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0984	EA	1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.81	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0985	EA	1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.67	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0986	EA	1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.28	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0987	EA	1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	56.12	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0988	EA	1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.92	
		For >100 To 250, Deduct	-1.79	
		For >250 To 500, Deduct	-2.24	
		For >500, Deduct	-2.69	
05 05 23 00-0989		316 Stainless Steel, Hex Head Bolts (05 05 23 00-0997)		
05 05 23 00-0990		1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-0991	EA	1/4" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	5.97	
		For >100 To 250, Deduct	-1.14	
		For >250 To 500, Deduct	-1.42	
		For >500, Deduct	-1.71	
05 05 23 00-0992	EA	1/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	6.09	
		For >100 To 250, Deduct	-1.14	
		For >250 To 500, Deduct	-1.42	
		For >500, Deduct	-1.71	
05 05 23 00-0993	EA	1/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	6.18	
		For >100 To 250, Deduct	-1.14	
		For >250 To 500, Deduct	-1.42	
		For >500, Deduct	-1.71	
05 05 23 00-0994	EA	1/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	6.24	
		For >100 To 250, Deduct	-1.14	
		For >250 To 500, Deduct	-1.42	
		For >500, Deduct	-1.71	
05 05 23 00-0995	EA	1/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	6.59	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.47	
		For >500, Deduct	-1.76	
05 05 23 00-0996	EA	1/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	6.75	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.47	
		For >500, Deduct	-1.76	
05 05 23 00-0997	EA	1/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	6.91	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-1.47	
		For >500, Deduct	-1.76	
05 05 23 00-0998	EA	1/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	7.20	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-1.51	
		For >500, Deduct	-1.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0999	EA	1/4"	Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.34 For >100 To 250, Deduct -1.20 For >250 To 500, Deduct -1.51 For >500, Deduct -1.81		
05 05 23 00-1000	EA	1/4"	Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 7.40 For >100 To 250, Deduct -1.20 For >250 To 500, Deduct -1.51 For >500, Deduct -1.81		
05 05 23 00-1001	EA	1/4"	Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.97 For >100 To 250, Deduct -1.24 For >250 To 500, Deduct -1.55 For >500, Deduct -1.85		
05 05 23 00-1002	EA	1/4"	Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 8.08 For >100 To 250, Deduct -1.24 For >250 To 500, Deduct -1.55 For >500, Deduct -1.85		
05 05 23 00-1003	EA	1/4"	Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 12.23 For >100 To 250, Deduct -1.24 For >250 To 500, Deduct -1.55 For >500, Deduct -1.85		
05 05 23 00-1004	EA	1/4"	Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 17.43 For >100 To 250, Deduct -1.27 For >250 To 500, Deduct -1.59 For >500, Deduct -1.91		
05 05 23 00-1005	EA	1/4"	Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt 28.49 For >100 To 250, Deduct -1.27 For >250 To 500, Deduct -1.59 For >500, Deduct -1.91		
05 05 23 00-1006	EA	1/4"	Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt 31.02 For >100 To 250, Deduct -1.27 For >250 To 500, Deduct -1.59 For >500, Deduct -1.91		
05 05 23 00-1007			5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)		
05 05 23 00-1008	EA	5/16"	Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt 6.14 For >100 To 250, Deduct -1.14 For >250 To 500, Deduct -1.42 For >500, Deduct -1.71		
05 05 23 00-1009	EA	5/16"	Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt 6.28 For >100 To 250, Deduct -1.14 For >250 To 500, Deduct -1.42 For >500, Deduct -1.71		
05 05 23 00-1010	EA	5/16"	Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 6.51 For >100 To 250, Deduct -1.14 For >250 To 500, Deduct -1.42 For >500, Deduct -1.71		
05 05 23 00-1011	EA	5/16"	Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 6.69 For >100 To 250, Deduct -1.14 For >250 To 500, Deduct -1.42 For >500, Deduct -1.71		
05 05 23 00-1012	EA	5/16"	Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 6.94 For >100 To 250, Deduct -1.17 For >250 To 500, Deduct -1.47 For >500, Deduct -1.76		
05 05 23 00-1013	EA	5/16"	Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 7.30 For >100 To 250, Deduct -1.17 For >250 To 500, Deduct -1.47 For >500, Deduct -1.76		
05 05 23 00-1014	EA	5/16"	Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 7.56 For >100 To 250, Deduct -1.17 For >250 To 500, Deduct -1.47 For >500, Deduct -1.76		
05 05 23 00-1015	EA	5/16"	Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 7.83 For >100 To 250, Deduct -1.20 For >250 To 500, Deduct -1.51 For >500, Deduct -1.81		
05 05 23 00-1016	EA	5/16"	Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 8.37 For >100 To 250, Deduct -1.20 For >250 To 500, Deduct -1.51 For >500, Deduct -1.81		
05 05 23 00-1017	EA	5/16"	Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 8.48 For >100 To 250, Deduct -1.20 For >250 To 500, Deduct -1.51 For >500, Deduct -1.81		
05 05 23 00-1018	EA	5/16"	Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 9.03 For >100 To 250, Deduct -1.24 For >250 To 500, Deduct -1.55 For >500, Deduct -1.85		
05 05 23 00-1019	EA	5/16"	Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 9.45 For >100 To 250, Deduct -1.24 For >250 To 500, Deduct -1.55 For >500, Deduct -1.85		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1020 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.98	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-1021 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	18.16	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	6.51	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-1024 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	6.57	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-1025 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	6.79	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-1026 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.31	
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-1.71	
05 05 23 00-1027 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	7.67	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-1028 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	7.76	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-1029 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.22	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-1.47	
For >500, Deduct	-1.76	
05 05 23 00-1030 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	8.45	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-1031 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.74	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-1032 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	8.94	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-1.81	
05 05 23 00-1033 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.73	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-1034 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	10.51	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-1035 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.54	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-1.85	
05 05 23 00-1036 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	12.67	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-1037 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.87	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-1038 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	19.32	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-1.91	
05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1040 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.21	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1041	EA		7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.54	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1042	EA		7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.16	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1043	EA		7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.86	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1044	EA		7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	10.45	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1045	EA		7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.43	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1046	EA		7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	12.53	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1047	EA		7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.70	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1048	EA		7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	13.06	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1049	EA		7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.46	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1050	EA		7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	13.71	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1051	EA		7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.97	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1052	EA		7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	14.33	
			For >100 To 250, Deduct	-1.43	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.15	
05 05 23 00-1053			1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1054	EA		1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.19	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1055	EA		1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.55	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1056	EA		1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.05	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-1.63	
			For >500, Deduct	-1.95	
05 05 23 00-1057	EA		1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.81	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1058	EA		1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	10.36	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1059	EA		1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.49	
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.00	
05 05 23 00-1060	EA		1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	10.89	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	
05 05 23 00-1061	EA		1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.96	
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-1.71	
			For >500, Deduct	-2.05	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1062 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	14.12	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-1063 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.44	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-1064 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	14.78	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-1065 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.45	
For >100 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-1.75	
For >500, Deduct	-2.10	
05 05 23 00-1066 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	19.39	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-1067 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.55	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-1068 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	22.46	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.15	
05 05 23 00-1069 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.68	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-1070 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	30.94	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-1071 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.48	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-1072 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	32.31	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.20	
05 05 23 00-1073 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1074 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	17.13	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-1075 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.31	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-1076 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	22.23	
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-1.63	
For >500, Deduct	-1.95	
05 05 23 00-1077 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.60	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-1078 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	26.92	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-1079 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.24	
For >100 To 250, Deduct	-1.33	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.00	
05 05 23 00-1080 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	30.85	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-1081 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.76	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	
05 05 23 00-1082 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	34.46	
For >100 To 250, Deduct	-1.37	
For >250 To 500, Deduct	-1.71	
For >500, Deduct	-2.05	



		Metals	05
		Common Work Results For Metals	05 05
		Metal Fastenings	05 05 23

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1083	EA		9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.13	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1084	EA		9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	36.63	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-1.75	
			For >500, Deduct	-2.10	
05 05 23 00-1085 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1086	EA		5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.82	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-1087	EA		5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.92	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-1088	EA		5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	10.96	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-1089	EA		5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.79	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-1090	EA		5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.48	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-1091	EA		5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.66	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-1092	EA		5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	15.29	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-1093	EA		5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.20	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-1094	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	17.87	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-1095	EA		5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.28	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-1096	EA		5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	19.83	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-1097	EA		5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.18	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-1098	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	24.54	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-1099	EA		5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.97	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-1100	EA		5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	26.53	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-1101	EA		5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.10	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1102	EA		5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	29.43	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1103	EA		5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.75	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1104	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	42.51	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1106	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	13.48	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-1107	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.72	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-1108	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	14.63	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.20	
05 05 23 00-1109	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.59	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-1110	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	17.29	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-1111	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.27	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.24	
05 05 23 00-1112	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	20.54	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-1113	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.41	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-1114	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	21.89	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.30	
05 05 23 00-1115	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.68	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-1116	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	23.77	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-1117	EA		3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.12	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.95	
			For >500, Deduct	-2.34	
05 05 23 00-1118	EA		3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	32.13	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-1119	EA		3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.90	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-1120	EA		3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	36.47	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.39	
05 05 23 00-1121	EA		3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.90	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1122	EA		3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	44.62	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1123	EA		3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.10	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1124	EA		3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	46.31	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1125			7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1126	EA		7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.16	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1127	EA		7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	16.73	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1128	EA		7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.76	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-1129	EA		7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	19.96	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-1130	EA		7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.95	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	
05 05 23 00-1131	EA		7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	21.97	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-1132	EA		7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.31	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-1133	EA		7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	26.31	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-1134	EA		7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.56	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-1135	EA		7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	27.55	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-1136	EA		7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.95	
			For >100 To 250, Deduct	-1.73	
			For >250 To 500, Deduct	-2.16	
			For >500, Deduct	-2.59	
05 05 23 00-1137	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	39.81	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-1138	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.80	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-1139	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	45.76	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-1140	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	48.47	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-1141	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	50.18	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-1142	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.87	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-1143	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	53.78	
			For >100 To 250, Deduct	-1.79	
			For >250 To 500, Deduct	-2.24	
			For >500, Deduct	-2.69	
05 05 23 00-1144			1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1145	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	18.62	
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.03	
			For >500, Deduct	-2.44	
05 05 23 00-1146	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.21	
			For >100 To 250, Deduct	-1.66	
			For >250 To 500, Deduct	-2.08	
			For >500, Deduct	-2.49	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1147 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	22.83	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-1148 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.43	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.49	
05 05 23 00-1149 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	26.51	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1150 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.27	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1151 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	30.05	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1152 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.00	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1153 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	36.59	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1154 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.12	
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.59	
05 05 23 00-1155 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	47.46	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-1156 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.67	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-1157 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	53.41	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-1158 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.27	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-1159 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	55.99	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-1160 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	64.62	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-1161 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	72.96	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.69	
05 05 23 00-1162 Screws (05 05 23)		
05 05 23 00-1163 Teks® 5 Self Drilling Screws (05 05 23 00-1162)		
Note: Screws include Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1164 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	2.98	
For >10 To 50, Deduct	-0.14	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.56	
05 05 23 00-1165 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	3.07	
For >10 To 50, Deduct	-0.14	
For >50 To 100, Deduct	-0.28	
For >100, Deduct	-0.56	
05 05 23 00-1166 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	3.39	
For >10 To 50, Deduct	-0.15	
For >50 To 100, Deduct	-0.30	
For >100, Deduct	-0.60	
05 05 23 00-1167 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.55	
For >10 To 50, Deduct	-0.18	
For >50 To 100, Deduct	-0.39	
For >100, Deduct	-0.77	
05 05 23 00-1168 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.84	
For >10 To 50, Deduct	-0.19	
For >50 To 100, Deduct	-0.41	
For >100, Deduct	-0.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1169	EA		1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	5.77	
			For >10 To 50, Deduct	-0.20	
			For >50 To 100, Deduct	-0.44	
			For >100, Deduct	-0.89	
05 05 23 00-1170	EA		1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	6.36	
			For >10 To 50, Deduct	-0.21	
			For >50 To 100, Deduct	-0.47	
			For >100, Deduct	-0.94	
05 05 23 00-1171			Security Screws (05 05 23 00-1162)		
05 05 23 00-1172			304/18-8 Stainless Steel, Security Screws (05 05 23 00-1171)		
			Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1173	EA		#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	2.37	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.23	
			For >100, Deduct	-0.46	
05 05 23 00-1174	EA		#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.62	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.47	
05 05 23 00-1175	EA		#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	2.82	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1176	EA		#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.90	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.49	
05 05 23 00-1177	EA		#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.03	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1178	EA		#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.67	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1179	EA		#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	2.77	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1180	EA		#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.98	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1181	EA		#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.04	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1182	EA		#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.73	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1183	EA		#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	2.76	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1184	EA		#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.85	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.48	
05 05 23 00-1185	EA		#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.13	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	
05 05 23 00-1186	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	2.90	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.24	
			For >100, Deduct	-0.49	
05 05 23 00-1187	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	2.96	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.49	
05 05 23 00-1188	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	3.23	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.25	
			For >100, Deduct	-0.50	
05 05 23 00-1189	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	3.66	
			For >10 To 50, Deduct	-0.11	
			For >50 To 100, Deduct	-0.26	
			For >100, Deduct	-0.53	

05 05 23 00-1190 **Threaded Rod** (05 05 23)

Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
		washers.		
05 05 23 00-1191		Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1192	LF	1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	1.62	0.44
		<i>For Left Hand Threaded Rod, Add</i>	0.07	
05 05 23 00-1193	LF	5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.08	0.49
		<i>For Left Hand Threaded Rod, Add</i>	0.11	
05 05 23 00-1194	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.41	0.56
		<i>For Left Hand Threaded Rod, Add</i>	0.13	
05 05 23 00-1195	LF	7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.16	0.57
		<i>For Left Hand Threaded Rod, Add</i>	0.20	
05 05 23 00-1196	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.23	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.20	
05 05 23 00-1197	LF	9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.94	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.27	
05 05 23 00-1198	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.41	0.61
		<i>For Left Hand Threaded Rod, Add</i>	0.32	
05 05 23 00-1199	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.03	0.63
		<i>For Left Hand Threaded Rod, Add</i>	0.58	
05 05 23 00-1200	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.65	0.65
		<i>For Left Hand Threaded Rod, Add</i>	0.63	
05 05 23 00-1201	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.37	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.89	
05 05 23 00-1202	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.86	0.83
		<i>For Left Hand Threaded Rod, Add</i>	1.12	
05 05 23 00-1203	LF	1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.97	0.90
		<i>For Left Hand Threaded Rod, Add</i>	1.51	
05 05 23 00-1204	LF	1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	21.01	0.98
		<i>For Left Hand Threaded Rod, Add</i>	1.91	
05 05 23 00-1205	LF	1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	25.06	1.02
		<i>For Left Hand Threaded Rod, Add</i>	2.30	
05 05 23 00-1206	LF	1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	30.65	1.07
		<i>For Left Hand Threaded Rod, Add</i>	2.85	
05 05 23 00-1207	LF	2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	39.02	1.12
		<i>For Left Hand Threaded Rod, Add</i>	3.68	
05 05 23 00-1208		Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1209	LF	1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	1.63	0.44
		<i>For Left Hand Threaded Rod, Add</i>	0.07	
05 05 23 00-1210	LF	5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.32	0.49
		<i>For Left Hand Threaded Rod, Add</i>	0.13	
05 05 23 00-1211	LF	3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.59	0.56
		<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1212	LF	7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.61	0.57
		<i>For Left Hand Threaded Rod, Add</i>	0.25	
05 05 23 00-1213	LF	1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.87	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.27	
05 05 23 00-1214	LF	9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.97	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.38	
05 05 23 00-1215	LF	5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.27	0.61
		<i>For Left Hand Threaded Rod, Add</i>	0.40	
05 05 23 00-1216	LF	3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.77	0.63
		<i>For Left Hand Threaded Rod, Add</i>	0.65	
05 05 23 00-1217	LF	7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	9.98	0.65
		<i>For Left Hand Threaded Rod, Add</i>	0.87	
05 05 23 00-1218	LF	1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	13.32	0.74
		<i>For Left Hand Threaded Rod, Add</i>	1.18	
05 05 23 00-1219	LF	1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	17.12	0.83
		<i>For Left Hand Threaded Rod, Add</i>	1.55	
05 05 23 00-1220	LF	1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	20.39	0.90
		<i>For Left Hand Threaded Rod, Add</i>	1.85	
05 05 23 00-1221	LF	1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	23.14	0.98
		<i>For Left Hand Threaded Rod, Add</i>	2.12	
05 05 23 00-1222	LF	1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	29.03	1.02
		<i>For Left Hand Threaded Rod, Add</i>	2.70	
05 05 23 00-1223	LF	1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	35.88	1.07
		<i>For Left Hand Threaded Rod, Add</i>	3.38	
05 05 23 00-1224	LF	2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	52.12	1.12
		<i>For Left Hand Threaded Rod, Add</i>	4.99	
05 05 23 00-1225		Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1226	LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	4.07	0.56
		<i>For Left Hand Threaded Rod, Add</i>	0.30	
05 05 23 00-1227	LF	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	5.60	0.60
		<i>For Left Hand Threaded Rod, Add</i>	0.44	
05 05 23 00-1228	LF	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	7.47	0.61
		<i>For Left Hand Threaded Rod, Add</i>	0.62	
05 05 23 00-1229	LF	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	10.13	0.63
		<i>For Left Hand Threaded Rod, Add</i>	0.89	
05 05 23 00-1230	LF	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	13.92	0.65
		<i>For Left Hand Threaded Rod, Add</i>	1.26	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1231	LF	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	17.89 1.64	0.74
05 05 23 00-1232	LF	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	23.46 2.18	0.83
05 05 23 00-1233	LF	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	30.77 2.89	0.90
05 05 23 00-1234	LF	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	34.35 3.24	0.98
05 05 23 00-1235	LF	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	40.82 3.88	1.02
05 05 23 00-1236	LF	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	49.51 4.74	1.07
05 05 23 00-1237	LF	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	86.03 8.38	1.12
05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod (05 05 23 00-1190)				
05 05 23 00-1239	LF	1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	2.18 0.13	0.44
05 05 23 00-1240	LF	5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.18 0.22	0.49
05 05 23 00-1241	LF	3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.05 0.29	0.56
05 05 23 00-1242	LF	7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	5.52 0.44	0.57
05 05 23 00-1243	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.56 0.54	0.60
05 05 23 00-1244	LF	9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.29 0.81	0.60
05 05 23 00-1245	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.70 0.85	0.61
05 05 23 00-1246	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.44 1.22	0.63
05 05 23 00-1247	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	18.38 1.71	0.65
05 05 23 00-1248	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	23.51 2.20	0.74
05 05 23 00-1249	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	49.40 4.75	0.90
05 05 23 00-1250	LF	1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	75.00 7.30	1.02
05 05 23 00-1251	LF	1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	77.16 7.50	1.07
05 05 23 00-1252	LF	2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	106.57 10.43	1.12
05 05 23 00-1253 316 Stainless Steel Threaded Rod (05 05 23 00-1190)				
05 05 23 00-1254	LF	1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.05 0.22	0.44
05 05 23 00-1255	LF	5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.78 0.38	0.49
05 05 23 00-1256	LF	3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.29 0.52	0.56
05 05 23 00-1257	LF	7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.66 0.85	0.57
05 05 23 00-1258	LF	1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	10.23 0.90	0.60
05 05 23 00-1259	LF	9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.32 1.21	0.60
05 05 23 00-1260	LF	5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.33 1.31	0.61
05 05 23 00-1261	LF	3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.73 1.95	0.63
05 05 23 00-1262	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	28.27 2.70	0.65
05 05 23 00-1263	LF	1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	35.72 3.42	0.74
05 05 23 00-1264	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	75.05 7.32	0.90
05 05 23 00-1265	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	98.26 9.62	1.02
05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1190)				
05 05 23 00-1267	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	2.64 0.87	0.44
05 05 23 00-1268	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	3.97 1.49	0.49
05 05 23 00-1269	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	4.17 1.53	0.56
05 05 23 00-1270	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	4.55 1.70	0.57

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1271 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	4.98 1.90	0.60
05 05 23 00-1272 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.15 2.47	0.60
05 05 23 00-1273 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.36 2.56	0.61
05 05 23 00-1274 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	8.35 3.54	0.63
05 05 23 00-1275 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	9.96 4.32	0.65
05 05 23 00-1276 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	12.86 5.69	0.74
05 05 23 00-1277 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	16.67 7.51	0.83
05 05 23 00-1278 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	18.55 8.35	0.90
05 05 23 00-1279 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	21.36 9.71	0.98
05 05 23 00-1280 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	25.90 11.94	1.02
05 05 23 00-1281 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	26.78 12.33	1.07
05 05 23 00-1282 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	35.80 16.79	1.12

05 05 23 00-1283 Nuts And Washers (05 05 23)**05 05 23 00-1284 Hex Nuts** (05 05 23 00-1283)**05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts** (05 05 23 00-1284)

05 05 23 00-1286 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.49	0.22
05 05 23 00-1287 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.54	0.22
05 05 23 00-1288 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.57	0.22
05 05 23 00-1289 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.66	0.22
05 05 23 00-1290 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.70	0.22
05 05 23 00-1291 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.89	0.22
05 05 23 00-1292 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.92	0.22
05 05 23 00-1293 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.06	0.45
05 05 23 00-1294 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.48	0.45
05 05 23 00-1295 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.87	0.45
05 05 23 00-1296 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.95	0.45
05 05 23 00-1297 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.60	0.45
05 05 23 00-1298 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.18	0.45
05 05 23 00-1299 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.97	0.67
05 05 23 00-1300 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.64	0.67
05 05 23 00-1301 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	12.37	0.67

05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)

05 05 23 00-1303 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.50	0.22
05 05 23 00-1304 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.55	0.22
05 05 23 00-1305 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.59	0.22
05 05 23 00-1306 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.68	0.22
05 05 23 00-1307 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.77	0.22
05 05 23 00-1308 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.91	0.22
05 05 23 00-1309 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.93	0.22
05 05 23 00-1310 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.18	0.45
05 05 23 00-1311 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.60	0.45
05 05 23 00-1312 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.22	0.45
05 05 23 00-1313 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.30	0.45
05 05 23 00-1314 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	4.62	0.45
05 05 23 00-1315 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	6.67	0.45
05 05 23 00-1316 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	7.35	0.67
05 05 23 00-1317 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	13.04	0.67
05 05 23 00-1318 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	18.58	0.67

05 05 23 00-1319 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)

05 05 23 00-1320 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.51	0.22
05 05 23 00-1321 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.58	0.22
05 05 23 00-1322 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.62	0.22
05 05 23 00-1323 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.75	0.22
05 05 23 00-1324 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.87	0.22
05 05 23 00-1325 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.03	0.22
05 05 23 00-1326 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.15	0.22
05 05 23 00-1327 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.39	0.45
05 05 23 00-1328 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.02	0.45
05 05 23 00-1329 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.65	0.45
05 05 23 00-1330 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.06	0.45
05 05 23 00-1331 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	5.06	0.45
05 05 23 00-1332 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.17	0.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1333 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.67	0.67
05 05 23 00-1334 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	13.08	0.67
05 05 23 00-1335 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	18.38	0.67
05 05 23 00-1336 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1337 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.51	0.22
05 05 23 00-1338 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.57	0.22
05 05 23 00-1339 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.61	0.22
05 05 23 00-1340 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.74	0.22
05 05 23 00-1341 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.83	0.22
05 05 23 00-1342 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.92	0.22
05 05 23 00-1343 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.00	0.22
05 05 23 00-1344 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.28	0.45
05 05 23 00-1345 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.80	0.45
05 05 23 00-1346 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.45	0.45
05 05 23 00-1347 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.93	0.45
05 05 23 00-1348 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	5.03	0.45
05 05 23 00-1349 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	7.35	0.45
05 05 23 00-1350 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	8.54	0.67
05 05 23 00-1351 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.69	0.67
05 05 23 00-1352 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	25.21	0.67
05 05 23 00-1353 304 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1354 EA 1/4" Diameter, 304 Stainless Steel Hex Nut	0.55	0.22
05 05 23 00-1355 EA 5/16" Diameter, 304 Stainless Steel Hex Nut	0.64	0.22
05 05 23 00-1356 EA 3/8" Diameter, 304 Stainless Steel Hex Nut	0.71	0.22
05 05 23 00-1357 EA 7/16" Diameter, 304 Stainless Steel Hex Nut	1.01	0.22
05 05 23 00-1358 EA 1/2" Diameter, 304 Stainless Steel Hex Nut	1.08	0.22
05 05 23 00-1359 EA 9/16" Diameter, 304 Stainless Steel Hex Nut	1.57	0.22
05 05 23 00-1360 EA 5/8" Diameter, 304 Stainless Steel Hex Nut	1.74	0.22
05 05 23 00-1361 EA 3/4" Diameter, 304 Stainless Steel Hex Nut	1.98	0.45
05 05 23 00-1362 EA 7/8" Diameter, 304 Stainless Steel Hex Nut	3.15	0.45
05 05 23 00-1363 EA 1" Diameter, 304 Stainless Steel Hex Nut	4.77	0.45
05 05 23 00-1364 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut	11.25	0.45
05 05 23 00-1365 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut	21.40	0.67
05 05 23 00-1366 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut	37.45	0.67
05 05 23 00-1367 EA 2" Diameter, 304 Stainless Steel Hex Nut	53.27	0.67
05 05 23 00-1368 316 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1369 EA 1/4" Diameter, 316 Stainless Steel Hex Nut	0.63	0.22
05 05 23 00-1370 EA 5/16" Diameter, 316 Stainless Steel Hex Nut	0.71	0.22
05 05 23 00-1371 EA 3/8" Diameter, 316 Stainless Steel Hex Nut	0.82	0.22
05 05 23 00-1372 EA 7/16" Diameter, 316 Stainless Steel Hex Nut	1.28	0.22
05 05 23 00-1373 EA 1/2" Diameter, 316 Stainless Steel Hex Nut	1.36	0.22
05 05 23 00-1374 EA 9/16" Diameter, 316 Stainless Steel Hex Nut	1.81	0.22
05 05 23 00-1375 EA 5/8" Diameter, 316 Stainless Steel Hex Nut	2.03	0.22
05 05 23 00-1376 EA 3/4" Diameter, 316 Stainless Steel Hex Nut	2.77	0.45
05 05 23 00-1377 EA 7/8" Diameter, 316 Stainless Steel Hex Nut	3.79	0.45
05 05 23 00-1378 EA 1" Diameter, 316 Stainless Steel Hex Nut	5.80	0.45
05 05 23 00-1379 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut	17.31	0.45
05 05 23 00-1380 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut	27.86	0.67
05 05 23 00-1381 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut	46.86	0.67
05 05 23 00-1382 EA 2" Diameter, 316 Stainless Steel Hex Nut	86.88	0.67
05 05 23 00-1383 Flat Washers (05 05 23 00-1283)		
05 05 23 00-1384 Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1383)		
05 05 23 00-1385 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.03	
05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.04	
05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.08	
05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.12	
05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.17	
05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.19	
05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.33	
05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.47	
05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.56	
05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.68	
05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.77	
05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.92	
05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.45	
05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.48	
05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.20	
05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.73	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1383)		

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1402 EA 1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.10	
05 05 23 00-1403 EA 5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.14	
05 05 23 00-1404 EA 3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.16	
05 05 23 00-1405 EA 7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.21	
05 05 23 00-1406 EA 1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.29	
05 05 23 00-1407 EA 9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.47	
05 05 23 00-1408 EA 5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.67	
05 05 23 00-1409 EA 3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.94	
05 05 23 00-1410 EA 7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.58	
05 05 23 00-1411 EA 1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.75	
05 05 23 00-1412 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.54	
05 05 23 00-1413 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.78	
05 05 23 00-1414 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.66	
05 05 23 00-1415 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.18	
05 05 23 00-1416 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.62	
05 05 23 00-1417 EA 2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.75	
05 05 23 00-1418 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1419 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.07	
05 05 23 00-1420 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.09	
05 05 23 00-1421 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.11	
05 05 23 00-1422 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.20	
05 05 23 00-1423 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.25	
05 05 23 00-1424 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.41	
05 05 23 00-1425 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.46	
05 05 23 00-1426 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.70	
05 05 23 00-1427 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.98	
05 05 23 00-1428 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.08	
05 05 23 00-1429 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.65	
05 05 23 00-1430 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.84	
05 05 23 00-1431 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.62	
05 05 23 00-1432 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.84	
05 05 23 00-1433 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.12	
05 05 23 00-1434 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1435 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.08	
05 05 23 00-1436 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.11	
05 05 23 00-1437 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.15	
05 05 23 00-1438 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.28	
05 05 23 00-1439 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.51	
05 05 23 00-1440 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.64	
05 05 23 00-1441 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.94	
05 05 23 00-1442 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.95	
05 05 23 00-1443 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	2.01	
05 05 23 00-1444 EA 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	2.54	
05 05 23 00-1445 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	2.96	
05 05 23 00-1446 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.19	
05 05 23 00-1447 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.37	
05 05 23 00-1448 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.11	
05 05 23 00-1449 EA 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.10	
05 05 23 00-1450 EA 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	10.02	
05 05 23 00-1451 316 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1452 EA 1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.16	
05 05 23 00-1453 EA 5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.17	
05 05 23 00-1454 EA 3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.30	
05 05 23 00-1455 EA 7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.36	
05 05 23 00-1456 EA 1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.66	
05 05 23 00-1457 EA 9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.19	
05 05 23 00-1458 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.40	
05 05 23 00-1459 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.77	
05 05 23 00-1460 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.74	
05 05 23 00-1461 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.06	
05 05 23 00-1462 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.48	
05 05 23 00-1463 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.29	
05 05 23 00-1464 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.54	
05 05 23 00-1465 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.64	
05 05 23 00-1466 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	6.80	
05 05 23 00-1467 Lock Washers (05 05 23 00-1283)		
05 05 23 00-1468 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)		
05 05 23 00-1469 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.01	
05 05 23 00-1470 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1471 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.03	
05 05 23 00-1472 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.05	
05 05 23 00-1473 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.11	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.12	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.19	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.31	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.56	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.82	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.25	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.98	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.33	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.16	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.69	
05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.05	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.06	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.08	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.09	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.14	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.18	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.21	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.36	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.52	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.82	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.48	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.76	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.54	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.91	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.94	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.36	
05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.07	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.09	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.13	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.24	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.27	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.66	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.77	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.90	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.63	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.30	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	4.02	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	5.35	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	6.80	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	8.16	
05 05 23 00-1517 316 Stainless Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.08	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.18	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.21	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.35	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.39	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.70	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.77	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer	1.33	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer	2.19	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer	2.98	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	4.16	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	6.41	
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	11.47	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	12.74	
05 05 23 00-1532 Load Indicating Washers (05 05 23 00-1283)		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1532)		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	1.36	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	1.54	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	1.66	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	1.88	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.27	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.78	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.88	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.23	

05 Metals**05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1543	EA	1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.86	
05 05 23 00-1544		Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1545	EA	1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	1.72	
05 05 23 00-1546	EA	5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	1.91	
05 05 23 00-1547	EA	3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	1.86	
05 05 23 00-1548	EA	7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.27	
05 05 23 00-1549	EA	1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.69	
05 05 23 00-1550	EA	1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.06	
05 05 23 00-1551	EA	1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.11	
05 05 23 00-1552	EA	1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.27	
05 05 23 00-1553	EA	1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	8.00	
05 05 23 00-1554		Beveled Washers (05 05 23 00-1283)		
05 05 23 00-1555		Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1556	EA	1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	2.24	
05 05 23 00-1557	EA	5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	2.29	
05 05 23 00-1558	EA	3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	2.34	
05 05 23 00-1559	EA	7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	2.84	
05 05 23 00-1560	EA	1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	2.99	
05 05 23 00-1561		Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1562	EA	1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	3.22	
05 05 23 00-1563	EA	5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	3.37	
05 05 23 00-1564	EA	3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	3.37	
05 05 23 00-1565	EA	7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	3.56	
05 05 23 00-1566	EA	1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	3.79	
05 05 23 00-1567		Drilling In Steel Plates (05 05 23)		
05 05 23 00-1568	EA	Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	15.12	
		For Aluminum, Deduct.....	-1.51	
		For Stainless Steel, Add.....	1.89	
05 05 23 00-1569	EA	>1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	17.79	
		For Aluminum, Deduct.....	-1.78	
		For Stainless Steel, Add.....	2.22	
05 05 23 00-1570	EA	>7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	21.36	
		For Aluminum, Deduct.....	-2.14	
		For Stainless Steel, Add.....	2.67	
05 05 23 00-1571	EA	>1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	24.91	
		For Aluminum, Deduct.....	-2.49	
		For Stainless Steel, Add.....	3.11	
05 05 23 00-1572	EA	>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	33.36	
		For Aluminum, Deduct.....	-3.34	
		For Stainless Steel, Add.....	4.17	
05 05 23 00-1573	EA	Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	17.79	
		For Aluminum, Deduct.....	-1.78	
		For Stainless Steel, Add.....	2.22	
05 05 23 00-1574	EA	>1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	22.24	
		For Aluminum, Deduct.....	-2.22	
		For Stainless Steel, Add.....	2.78	
05 05 23 00-1575	EA	>7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	26.69	
		For Aluminum, Deduct.....	-2.67	
		For Stainless Steel, Add.....	3.34	
05 05 23 00-1576	EA	>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	33.36	
		For Aluminum, Deduct.....	-3.34	
		For Stainless Steel, Add.....	4.17	
05 05 23 00-1577	EA	Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	22.24	
		For Aluminum, Deduct.....	-2.22	
		For Stainless Steel, Add.....	2.78	
05 05 23 00-1578	EA	>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	29.36	
		For Aluminum, Deduct.....	-2.94	
		For Stainless Steel, Add.....	3.67	
05 05 23 00-1579	EA	>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	35.59	
05 05 23 00-1580		Welded Stud Anchors (05 05 23)		
05 05 23 00-1581	EA	1/4" Diameter x 1-1/8" Long, Welded Stud Concrete Anchors.....	2.24	
05 05 23 00-1582	EA	1/4" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	2.27	
05 05 23 00-1583	EA	1/4" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	2.28	
05 05 23 00-1584	EA	1/4" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	2.29	
05 05 23 00-1585	EA	3/8" Diameter x 1-3/8" Long, Welded Stud Concrete Anchors.....	2.35	
05 05 23 00-1586	EA	3/8" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	2.42	
05 05 23 00-1587	EA	3/8" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	2.48	
05 05 23 00-1588	EA	3/8" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	2.52	
05 05 23 00-1589	EA	3/8" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	2.55	
05 05 23 00-1590	EA	3/8" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	2.69	



		Metals	05	05
		Common Work Results For Metals	05 05	
		Metal Fastenings	05 05 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1591 EA 3/8" Diameter x 5-1/8" Long, Welded Stud Concrete Anchors.....	2.80	
05 05 23 00-1592 EA 3/8" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	2.89	
05 05 23 00-1593 EA 1/2" Diameter x 1-1/2" Long, Welded Stud Concrete Anchors.....	2.74	
05 05 23 00-1594 EA 1/2" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	2.75	
05 05 23 00-1595 EA 1/2" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	2.86	
05 05 23 00-1596 EA 1/2" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	2.95	
05 05 23 00-1597 EA 1/2" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	3.07	
05 05 23 00-1598 EA 1/2" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	3.26	
05 05 23 00-1599 EA 1/2" Diameter x 5-5/16" Long, Welded Stud Concrete Anchors.....	3.38	
05 05 23 00-1600 EA 1/2" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	3.71	
05 05 23 00-1601 EA 1/2" Diameter x 8-1/8" Long, Welded Stud Concrete Anchors.....	4.33	
05 05 23 00-1602 EA 5/8" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	3.57	
05 05 23 00-1603 EA 5/8" Diameter x 3-3/16" Long, Welded Stud Concrete Anchors.....	3.72	
05 05 23 00-1604 EA 5/8" Diameter x 3-11/16" Long, Welded Stud Concrete Anchors.....	3.85	
05 05 23 00-1605 EA 5/8" Diameter x 4-3/16" Long, Welded Stud Concrete Anchors.....	3.98	
05 05 23 00-1606 EA 5/8" Diameter x 4-11/16" Long, Welded Stud Concrete Anchors.....	4.08	
05 05 23 00-1607 EA 5/8" Diameter x 5-3/16" Long, Welded Stud Concrete Anchors.....	4.18	
05 05 23 00-1608 EA 5/8" Diameter x 6-3/16" Long, Welded Stud Concrete Anchors.....	4.31	
05 05 23 00-1609 EA 5/8" Diameter x 6-9/16" Long, Welded Stud Concrete Anchors.....	4.84	
05 05 23 00-1610 EA 5/8" Diameter x 8-3/16" Long, Welded Stud Concrete Anchors.....	5.58	

05 05 23 00-1611 Welded Shear Stud Connector (05 05 23)

05 05 23 00-1612 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1611)

05 05 23 00-1613 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector	4.38	
05 05 23 00-1614 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector	4.49	
05 05 23 00-1615 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector	4.52	
05 05 23 00-1616 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector	4.53	
05 05 23 00-1617 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector	4.66	
05 05 23 00-1618 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector	4.89	
05 05 23 00-1619 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector	7.15	
05 05 23 00-1620 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector	5.17	
05 05 23 00-1621 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector	5.58	
05 05 23 00-1622 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector	8.05	
05 05 23 00-1623 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	8.18	
05 05 23 00-1624 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	8.63	
05 05 23 00-1625 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	10.52	

05 05 23 00-1626 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1611)

05 05 23 00-1627 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	4.94	
05 05 23 00-1628 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	5.12	
05 05 23 00-1629 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	5.30	
05 05 23 00-1630 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	5.82	
05 05 23 00-1631 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	8.33	
05 05 23 00-1632 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	8.87	
05 05 23 00-1633 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	9.41	
05 05 23 00-1634 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	10.93	

05 05 23 00-1635 1" Diameter Welded Shear Stud Connector (05 05 23 00-1611)

05 05 23 00-1636 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	6.12	
05 05 23 00-1637 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	6.67	
05 05 23 00-1638 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	7.49	
05 05 23 00-1639 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	10.37	
05 05 23 00-1640 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	11.23	
05 05 23 00-1641 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	12.09	

05 10 Structural Metal Framing (05)

05 12 Structural Steel Framing (05 10)

05 12 23 Structural Steel For Buildings (05 12)

Note: Prices are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection. Excludes moment connection welding. See CSI section 05 12 23 00-0117 for field fabrication of additional structural metal connections, 05 12 23 00-0132 for moment connection welding.

05 12 23 00-0001 Rolled Steel Members (05 12 23)

05 12 23 00-0002 Beams, Girders And Columns (05 12 23 00-0001)

Note: For one and two story I beams and W shapes and HP shapes.

05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	6,118.34	986.15
For ASTM A242 Type 2 High Strength Steel, Add	326.26	
For Hot Dip Galvanizing, Add	1,141.90	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns.....	4,027.07	637.47
For ASTM A242 Type 2 High Strength Steel, Add	267.76	
For Hot Dip Galvanizing, Add	937.17	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0005	TON	>65-100 LB/LF Beams, Girders And Columns..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,353.96 237.72 832.00	358.61
05 12 23 00-0006	TON	>100-300 LB/LF Beams, Girders And Columns..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,235.34 162.51 568.77	190.87
05 12 23 00-0007		Trusses, Built-Up (05 12 23 00-0001)		
05 12 23 00-0008	TON	Built-Up Trusses, Rolled Structural Steel Members..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,270.93 284.48 995.66	670.66
05 12 23 00-0009		Shapes (05 12 23 00-0001)		
05 12 23 00-0010		Rolled Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0011	TON	Up To 10 LB/LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	8,944.92 471.16 1,649.07	1,833.24
05 12 23 00-0012	TON	>10-20 LB/LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,674.06 450.72 1,577.50	1,075.85
05 12 23 00-0013	TON	>20-58 LB/LF Rolled Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,636.02 396.49 1,387.71	637.47
05 12 23 00-0014		Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015	TON	Up To 10 LB/LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	10,004.17 464.05 1,624.18	2,510.30
05 12 23 00-0016	TON	>10-20 LB/LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,596.28 444.49 1,555.72	1,912.61
05 12 23 00-0017	TON	>20-58 LB/LF Rolled C, MC Steel Channels..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,547.12 389.38 1,362.81	637.47
05 12 23 00-0018		Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019	TON	Up To 20 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	8,213.44 453.38 1,586.84	1,454.54
05 12 23 00-0020	TON	>20-50 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	6,013.84 426.71 1,493.49	637.47
05 12 23 00-0021	TON	>50-80 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,494.08 328.92 1,151.24	358.61
05 12 23 00-0022	TON	>80-115 LB/LF Double L Shape Steel Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,870.66 213.36 746.75	191.17
05 12 23 00-0023		Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024	TON	Up To 30 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,374.03 426.71 1,493.49	1,075.85
05 12 23 00-0025	TON	>30-65 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,758.26 326.26 1,141.90	637.47
05 12 23 00-0026	TON	>65-100 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,716.21 266.70 933.43	358.61
05 12 23 00-0027	TON	>100-365 LB/LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,715.39 200.91 703.19	190.87
05 12 23 00-0028		Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029		Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030	TON	Up To 30 LB/LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,029.55 399.15 1,397.04	1,075.85
05 12 23 00-0031	TON	>30-65 LB/LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,791.60 328.92 1,151.24	637.47
05 12 23 00-0032	TON	>65-100 LB/LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,438.40 244.47 855.65	358.61



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0033	TON	>100-300 LB/LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,937.33 218.69 765.42	190.87
05 12 23 00-0034	TON	>300-500 LB/LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,513.38 192.91 675.19	95.82
05 12 23 00-0035		Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036	TON	>30-65 LB/LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,613.80 314.70 1,101.45	637.47
05 12 23 00-0037	TON	>65-100 LB/LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,449.52 245.36 858.76	358.61
05 12 23 00-0038		Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039	TON	Up To 30 LB/LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	7,374.03 426.71 1,493.49	1,075.85
05 12 23 00-0040	TON	>30-65 LB/LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,013.84 346.70 1,213.46	637.47
05 12 23 00-0041	TON	>65-100 LB/LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,527.30 251.58 880.54	358.61
05 12 23 00-0042		Standard Weight Pipe (05 12 23 00-0001)		
05 12 23 00-0043	TON	1/2" To 5" Diameter Standard Weight Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,079.08 277.36 970.77	573.78
05 12 23 00-0044	TON	>5" To 12" Diameter Standard Weight Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,387.66 289.81 1,014.33	717.23
05 12 23 00-0045		Structural Steel Shapes (05 12 23)		
05 12 23 00-0046		Steel Rods (05 12 23 00-0045)		
05 12 23 00-0047	TON	1/2" To 5" Diameter Extra Strong Steel, Solid For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,345.23 309.37 1,082.78	448.32
05 12 23 00-0048	TON	>5" To 12" Diameter Extra Strong Steel, Solid For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,013.84 346.70 1,213.46	637.47
05 12 23 00-0049		Column Base Plates (05 12 23 00-0045)		
05 12 23 00-0050	LB	Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2.33 0.13 0.47	0.62
05 12 23 00-0051	LB	Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2.17 0.13 0.44	0.53
05 12 23 00-0052	TON	Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,034.04 275.00 962.49	559.30
05 12 23 00-0053	TON	Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	2,844.22 198.90 696.16	335.58
05 12 23 00-0054		Double Extra Strong Pipes (05 12 23 00-0045)		
05 12 23 00-0055	TON	2" To 5" Diameter Double Extra Strong Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	5,297.04 353.82 1,238.36	819.65
05 12 23 00-0056	TON	>5" To 8" Diameter Double Extra Strong Pipe For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,671.25 336.04 1,176.13	441.33
05 12 23 00-0057		Structural Pipes (05 12 23 00-0045)		
05 12 23 00-0058	TON	3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	3,694.12 248.92 871.21	378.70
05 12 23 00-0059	TON	>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add	4,074.99 248.92 871.21	436.74
05 12 23 00-0060		Structural Tubing (05 12 23 00-0045)		

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0061		Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062	TON	3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle.....	5,964.18	382.52
		For ASTM A242 Type 2 High Strength Steel, Add	444.49	
		For Hot Dip Galvanizing, Add	1,555.72	
05 12 23 00-0063	TON	4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle.....	6,026.96	441.33
		For ASTM A242 Type 2 High Strength Steel, Add	444.49	
		For Hot Dip Galvanizing, Add	1,555.72	
05 12 23 00-0064	TON	5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle.....	5,288.31	478.15
		For ASTM A242 Type 2 High Strength Steel, Add	382.26	
		For Hot Dip Galvanizing, Add	1,337.92	
05 12 23 00-0065	TON	6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle	5,056.97	573.78
		For ASTM A242 Type 2 High Strength Steel, Add	355.59	
		For Hot Dip Galvanizing, Add	1,244.58	
05 12 23 00-0066	TON	7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle	4,791.60	637.47
		For ASTM A242 Type 2 High Strength Steel, Add	328.92	
		For Hot Dip Galvanizing, Add	1,151.24	
05 12 23 00-0067	TON	8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle	5,052.57	882.19
		For ASTM A242 Type 2 High Strength Steel, Add	328.92	
		For Hot Dip Galvanizing, Add	1,151.24	
05 12 23 00-0068	TON	10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle	5,444.42	1,166.22
		For ASTM A242 Type 2 High Strength Steel, Add	336.04	
		For Hot Dip Galvanizing, Add	1,176.13	
05 12 23 00-0069	TON	12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle	5,603.77	1,273.89
		For ASTM A242 Type 2 High Strength Steel, Add	339.59	
		For Hot Dip Galvanizing, Add	1,188.57	
05 12 23 00-0070	TON	14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle	5,774.98	1,434.46
		For ASTM A242 Type 2 High Strength Steel, Add	339.59	
		For Hot Dip Galvanizing, Add	1,188.57	
05 12 23 00-0071	TON	16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle	7,414.92	3,013.61
		For ASTM A242 Type 2 High Strength Steel, Add	336.04	
		For Hot Dip Galvanizing, Add	1,176.13	
05 12 23 00-0072	TON	18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle.....	6,129.45	1,912.61
		For ASTM A242 Type 2 High Strength Steel, Add	327.15	
		For Hot Dip Galvanizing, Add	1,145.01	
05 12 23 00-0073	TON	20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle	9,005.11	4,400.24
		For ASTM A242 Type 2 High Strength Steel, Add	344.93	
		For Hot Dip Galvanizing, Add	1,207.24	
05 12 23 00-0074		Square Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0075	TON	2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square	5,938.68	358.61
		For ASTM A242 Type 2 High Strength Steel, Add	444.49	
		For Hot Dip Galvanizing, Add	1,555.72	
05 12 23 00-0076	TON	2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square	5,964.18	382.52
		For ASTM A242 Type 2 High Strength Steel, Add	444.49	
		For Hot Dip Galvanizing, Add	1,555.72	
05 12 23 00-0077	TON	3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square	5,399.44	478.15
		For ASTM A242 Type 2 High Strength Steel, Add	391.15	
		For Hot Dip Galvanizing, Add	1,369.04	
05 12 23 00-0078	TON	3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square	5,390.33	573.78
		For ASTM A242 Type 2 High Strength Steel, Add	382.26	
		For Hot Dip Galvanizing, Add	1,337.92	
05 12 23 00-0079	TON	4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square	4,409.89	717.23
		For ASTM A242 Type 2 High Strength Steel, Add	291.59	
		For Hot Dip Galvanizing, Add	1,020.56	
05 12 23 00-0080	TON	5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square	4,519.18	819.65
		For ASTM A242 Type 2 High Strength Steel, Add	291.59	
		For Hot Dip Galvanizing, Add	1,020.56	
05 12 23 00-0081	TON	6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square	4,868.91	1,147.57
		For ASTM A242 Type 2 High Strength Steel, Add	291.59	
		For Hot Dip Galvanizing, Add	1,020.56	
05 12 23 00-0082	TON	7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square	5,241.59	1,434.46
		For ASTM A242 Type 2 High Strength Steel, Add	296.92	
		For Hot Dip Galvanizing, Add	1,039.22	
05 12 23 00-0083	TON	8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square	6,351.70	1,912.61
		For ASTM A242 Type 2 High Strength Steel, Add	344.93	
		For Hot Dip Galvanizing, Add	1,207.24	
05 12 23 00-0084	TON	10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square	7,371.76	2,868.91
		For ASTM A242 Type 2 High Strength Steel, Add	344.93	
		For Hot Dip Galvanizing, Add	1,207.24	
05 12 23 00-0085	TON	12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square	7,303.26	3,367.24
		For ASTM A242 Type 2 High Strength Steel, Add	296.92	
		For Hot Dip Galvanizing, Add	1,039.22	
05 12 23 00-0086	TON	14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square	8,916.21	4,400.24
		For ASTM A242 Type 2 High Strength Steel, Add	337.81	
		For Hot Dip Galvanizing, Add	1,182.35	
05 12 23 00-0087	TON	16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square	10,431.93	5,737.83
		For ASTM A242 Type 2 High Strength Steel, Add	344.93	
		For Hot Dip Galvanizing, Add	1,207.24	
05 12 23 00-0088		Structural Shapes (05 12 23 00-0045)		



Metals			05
Structural Metal Framing			05 10
Structural Steel Framing			05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0089 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF)..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >20 To 50 LB/LF, Deduct For >50 To 75 LB/LF, Deduct For >75 To 100 LB/LF, Deduct	7,289.33 299.06 1,046.71 -906.49 -1,448.51 -1,990.53	2,237.17
05 12 23 00-0090 TON Structural Shapes, Steel Plate A36 Structural Steel Note: Up to 21.5 LB per SF For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >21.5 To 50 LB/LF, Deduct	4,746.01 284.48 995.69 -534.10	894.87
05 12 23 00-0091 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	2.72	0.20
05 12 23 00-0092 LB Structural Shapes, Galvanized Pipe Supports	3.28	0.20
05 12 23 00-0093 Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up	4,828.72	286.89
05 12 23 00-0095 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	4,737.17	159.32
05 12 23 00-0096 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	4,201.57	84.34
05 12 23 00-0097 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up	4,085.44	79.75
05 12 23 00-0098 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045) Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	18.09	6.44
05 12 23 00-0100 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	27.14	9.63
05 12 23 00-0101 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	36.19	12.85
05 12 23 00-0102 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	45.24	16.06
05 12 23 00-0103 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	54.29	19.18
05 12 23 00-0104 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	63.34	22.48
05 12 23 00-0105 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	72.38	25.69
05 12 23 00-0106 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	81.43	28.90
05 12 23 00-0107 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	90.47	32.11
05 12 23 00-0108 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	99.51	35.33
05 12 23 00-0109 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	108.56	38.54
05 12 23 00-0110 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	117.61	41.75
05 12 23 00-0111 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	126.66	44.96
05 12 23 00-0112 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	135.71	48.17
05 12 23 00-0113 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	144.76	51.38
05 12 23 00-0114 Accessories For Steel (05 12 23)		
05 12 23 00-0115 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat	0.85	
05 12 23 00-0117 Connection And Stiffener Plates (05 12 23 00-0114) Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates	10,265.87	
05 12 23 00-0119 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates	8,758.79	
05 12 23 00-0120 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates	6,773.35	
05 12 23 00-0121 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates	6,773.35	
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates	6,773.35	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates	6,773.35	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates	6,773.35	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates	6,773.35	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates	6,350.02	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates	6,350.02	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates	6,350.02	
05 12 23 00-0129 Spot Welding (05 12 23 00-0114) See CSI section 05 12 23 00-0132 for a series of welds.		
05 12 23 00-0130 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each	9.90	
For Aluminum Welding, Add For Stainless Steel Welding, Add	1.50 2.50	
05 12 23 00-0131 EA >15 Spot Weldings, Welds Up To 1" Length Each	7.97	
For Aluminum Welding, Add For Stainless Steel Welding, Add	1.38 2.22	
05 12 23 00-0132 Field Welding (Seam And Stitch Welding) (05 12 23 00-0114)		
05 12 23 00-0133 Vertical Fillet Welds (05 12 23 00-0132) Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 12 23 00-0134 LF 3/16" Vertical Fillet Weld	10.40	
For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	1.71 2.79 3.58 2.55	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0135 LF 1/4" Vertical Fillet Weld.....	15.61	
For Aluminum Welding, Add	2.57	
For Stainless Steel Welding, Add	4.19	
For Up To 25, Add	5.37	
For >25 To 50, Add	3.83	
05 12 23 00-0136 LF 5/16" Vertical Fillet Weld.....	20.80	
For Aluminum Welding, Add	3.43	
For Stainless Steel Welding, Add	5.59	
For Up To 25, Add	7.15	
For >25 To 50, Add	5.10	
05 12 23 00-0137 LF 3/8" Vertical Fillet Weld.....	26.02	
For Aluminum Welding, Add	4.29	
For Stainless Steel Welding, Add	6.99	
For Up To 25, Add	8.95	
For >25 To 50, Add	6.38	
05 12 23 00-0138 LF 7/16" Vertical Fillet Weld.....	30.95	
For Aluminum Welding, Add	4.94	
For Stainless Steel Welding, Add	8.11	
For Up To 25, Add	10.71	
For >25 To 50, Add	7.64	
05 12 23 00-0139 LF 1/2" Vertical Fillet Weld.....	36.03	
For Aluminum Welding, Add	5.94	
For Stainless Steel Welding, Add	9.68	
For Up To 25, Add	12.39	
For >25 To 50, Add	8.83	
05 12 23 00-0140 LF 9/16" Vertical Fillet Weld.....	42.33	
For Aluminum Welding, Add	6.83	
For Stainless Steel Welding, Add	11.18	
For Up To 25, Add	14.62	
For >25 To 50, Add	10.42	
05 12 23 00-0141 LF 5/8" Vertical Fillet Weld.....	46.63	
For Aluminum Welding, Add	7.56	
For Stainless Steel Welding, Add	12.36	
For Up To 25, Add	16.09	
For >25 To 50, Add	11.47	
05 12 23 00-0142 LF 3/4" Vertical Fillet Weld.....	64.02	
For Aluminum Welding, Add	10.58	
For Stainless Steel Welding, Add	17.22	
For Up To 25, Add	22.00	
For >25 To 50, Add	15.68	
05 12 23 00-0143 LF 7/8" Vertical Fillet Weld.....	84.56	
For Aluminum Welding, Add	13.76	
For Stainless Steel Welding, Add	22.49	
For Up To 25, Add	29.15	
For >25 To 50, Add	20.78	
05 12 23 00-0144 LF 1" Vertical Fillet Weld.....	117.23	
For Aluminum Welding, Add	19.40	
For Stainless Steel Welding, Add	31.58	
For Up To 25, Add	40.27	
For >25 To 50, Add	28.70	
05 12 23 00-0145 Horizontal Or Flat Fillet Welds (05 12 23 00-0132)		
Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 12 23 00-0146 LF 1/8" Horizontal Or Flat Fillet Weld.....	5.91	
For Aluminum Welding, Add	1.01	
For Stainless Steel Welding, Add	1.63	
For Up To 25, Add	2.02	
For >25 To 50, Add	1.44	
05 12 23 00-0147 LF 3/16" Horizontal Or Flat Fillet Weld.....	7.88	
For Aluminum Welding, Add	1.34	
For Stainless Steel Welding, Add	2.17	
For Up To 25, Add	2.69	
For >25 To 50, Add	1.92	
05 12 23 00-0148 LF 1/4" Horizontal Or Flat Fillet Weld.....	11.82	
For Aluminum Welding, Add	2.01	
For Stainless Steel Welding, Add	3.26	
For Up To 25, Add	4.04	
For >25 To 50, Add	2.88	
05 12 23 00-0149 LF 5/16" Horizontal Or Flat Fillet Weld.....	15.77	
For Aluminum Welding, Add	2.69	
For Stainless Steel Welding, Add	4.35	
For Up To 25, Add	5.38	
For >25 To 50, Add	3.83	
05 12 23 00-0150 LF 3/8" Horizontal Or Flat Fillet Weld.....	19.70	
For Aluminum Welding, Add	3.35	
For Stainless Steel Welding, Add	5.42	
For Up To 25, Add	6.73	
For >25 To 50, Add	4.79	
05 12 23 00-0151 LF 7/16" Horizontal Or Flat Fillet Weld.....	22.79	
For Aluminum Welding, Add	3.74	
For Stainless Steel Welding, Add	6.10	
For Up To 25, Add	7.84	
For >25 To 50, Add	5.59	



	Metals	05	
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0152	LF	1/2" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	27.81 4.73 7.65 9.50 6.77	
05 12 23 00-0153	LF	9/16" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	31.30 5.21 8.46 10.74 7.66	
05 12 23 00-0154	LF	5/8" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	37.59 6.30 10.22 12.88 9.18	
05 12 23 00-0155	LF	3/4" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	47.39 8.13 13.12 16.16 11.51	
05 12 23 00-0156	LF	7/8" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	71.75 11.77 19.20 24.69 17.60	
05 12 23 00-0157	LF	1" Horizontal Or Flat Fillet Weld..... For Aluminum Welding, Add For Stainless Steel Welding, Add For Up To 25, Add For >25 To 50, Add	94.54 16.08 26.01 32.30 23.00	
05 12 23 00-0158		Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0159	SF	Brush Applied Cold Galvanizing	1.61	
05 12 23 00-0160		Metal Grinding (05 12 23 00-0114) Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0161	SI	Metal Grinding Up To 1/32" Thickness To Be Removed..... Note: Includes rust or scale removal on metal and smoothing surface.	0.96	
05 12 23 00-0162		Structural Steel For Buildings And Structures (05 12 23)		
05 12 23 00-0163		First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0162) Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0164	LF	W14 x 730 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	982.89 88.46 196.58	62.05
05 12 23 00-0165	LF	W14 x 665 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	896.77 80.71 179.35	57.84
05 12 23 00-0166	LF	W14 x 605 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	817.17 73.55 163.43	53.83
05 12 23 00-0167	LF	W14 x 550 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	744.09 66.97 148.82	50.08
05 12 23 00-0168	LF	W14 x 500 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	680.98 61.29 136.20	49.73
05 12 23 00-0169	LF	W14 x 426 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	581.24 52.31 116.25	43.42
05 12 23 00-0170	LF	W14 x 342 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	470.59 42.35 94.12	37.58
05 12 23 00-0171	LF	W14 x 311 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	424.17 38.18 84.83	35.09
05 12 23 00-0172	LF	W14 x 283 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	385.29 34.68 77.06	33.09
05 12 23 00-0173	LF	W14 x 257 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	339.20 30.53 67.84	31.37
05 12 23 00-0174	LF	W14 x 233 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	312.23 28.10 62.45	29.17
05 12 23 00-0175	LF	W14 x 211 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	278.02 25.02 55.60	27.16

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0176	LF	W14 x 193 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	251.77 22.66 50.35	25.82
05 12 23 00-0177	LF	W14 x 176 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	227.24 20.45 45.45	24.68
05 12 23 00-0178	LF	W14 x 159 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	205.81 18.52 41.16	23.81
05 12 23 00-0179	LF	W14 x 145 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	198.92 17.90 39.78	23.04
05 12 23 00-0180	LF	W14 x 132 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	170.66 15.36 34.13	21.99
05 12 23 00-0181	LF	W14 x 120 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	160.22 14.42 32.04	21.42
05 12 23 00-0182	LF	W14 x 109 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	143.77 12.94 28.75	20.57
05 12 23 00-0183	LF	W14 x 99 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	131.47 11.83 26.29	19.98
05 12 23 00-0184	LF	W14 x 90 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	122.36 11.01 24.47	19.50
05 12 23 00-0185	LF	W14 x 82 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	112.96 10.17 22.59	18.93
05 12 23 00-0186	LF	W14 x 74 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	102.31 9.21 20.46	18.45
05 12 23 00-0187	LF	W14 x 68 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	95.79 8.62 19.16	18.17
05 12 23 00-0188	LF	W14 x 61 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	87.62 7.89 17.52	17.69
05 12 23 00-0189	LF	W14 x 53 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	80.08 7.21 16.02	17.21
05 12 23 00-0190	LF	W14 x 48 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	75.22 6.77 15.04	16.92
05 12 23 00-0191	LF	W14 x 43 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	68.19 6.14 13.64	16.64
05 12 23 00-0192	LF	W12 x 336 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	448.02 40.32 89.60	27.63
05 12 23 00-0193	LF	W12 x 305 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	408.82 36.79 81.76	27.09
05 12 23 00-0194	LF	W12 x 279 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	376.07 33.85 75.21	26.76
05 12 23 00-0195	LF	W12 x 252 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	341.73 30.76 68.35	26.09
05 12 23 00-0196	LF	W12 x 230 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	313.92 28.25 62.78	25.71
05 12 23 00-0197	LF	W12 x 210 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	288.63 25.98 57.73	25.35
05 12 23 00-0198	LF	W12 x 190 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	264.89 23.84 52.98	26.39
05 12 23 00-0199	LF	W12 x 170 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	239.77 21.58 47.95	25.63
05 12 23 00-0200	LF	W12 x 152 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	216.31 19.47 43.26	23.81
05 12 23 00-0201	LF	W12 x 136 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	205.78 18.52 41.16	23.15
05 12 23 00-0202	LF	W12 x 120 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	156.69 14.10 31.34	21.23
05 12 23 00-0203	LF	W12 x 106 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	144.61 13.01 28.92	20.57



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0204 LF W12 x 96 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	129.72 11.67 25.94	19.89
05 12 23 00-0205 LF W12 x 87 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	119.90 10.79 23.98	19.22
05 12 23 00-0206 LF W12 x 79 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	105.61 9.50 21.12	18.65
05 12 23 00-0207 LF W12 x 72 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	96.92 8.72 19.38	18.17
05 12 23 00-0208 LF W12 x 65 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	88.85 8.00 17.77	17.79
05 12 23 00-0209 LF W12 x 58 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	86.07 7.75 17.21	17.60
05 12 23 00-0210 LF W12 x 53 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	80.08 7.21 16.02	17.21
05 12 23 00-0211 LF W12 x 50 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	77.70 6.99 15.54	17.12
05 12 23 00-0212 LF W12 x 45 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	70.87 6.38 14.17	16.74
05 12 23 00-0213 LF W12 x 40 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	63.85 5.75 12.77	16.35
05 12 23 00-0214 LF W10 x 112 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	151.12 13.60 30.22	20.94
05 12 23 00-0215 LF W10 x 110 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	136.96 12.33 27.39	20.09
05 12 23 00-0216 LF W10 x 88 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	123.42 11.11 24.68	19.41
05 12 23 00-0217 LF W10 x 77 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	110.08 9.91 22.02	18.65
05 12 23 00-0218 LF W10 x 68 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	99.43 8.95 19.89	18.17
05 12 23 00-0219 LF W10 x 60 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	87.62 7.89 17.52	17.69
05 12 23 00-0220 LF W10 x 54 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	87.02 7.83 17.40	17.40
05 12 23 00-0221 LF W10 x 49 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	76.77 6.91 15.35	17.12
05 12 23 00-0222 LF W10 x 45 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	74.19 6.68 14.84	16.83
05 12 23 00-0223 LF W10 x 39 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	64.98 5.85 13.00	16.55
05 12 23 00-0224 LF W10 x 33 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	57.02 5.13 11.40	16.07
05 12 23 00-0225 LF W8 x 67 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	95.89 8.63 19.18	18.17
05 12 23 00-0226 LF W8 x 58 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	86.38 7.77 17.28	17.60
05 12 23 00-0227 LF W8 x 48 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	77.60 6.98 15.52	17.12
05 12 23 00-0228 LF W8 x 40 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	67.04 6.03 13.41	16.64
05 12 23 00-0229 LF W8 x 35 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	60.84 5.48 12.17	16.26
05 12 23 00-0230 LF W8 x 31 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	55.87 5.03 11.17	16.07
05 12 23 00-0231 LF W8 x 28 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	52.77 4.75 10.55	15.87

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0232	LF		W8 x 24 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	49.05 4.41 9.81	15.68
05 12 23 00-0233	LF		W8 x 21 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	46.58 4.19 9.32	15.59
05 12 23 00-0234	LF		W8 x 18 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	41.91 3.77 8.38	15.30
05 12 23 00-0235	LF		W6 x 25 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	51.34 4.62 10.27	15.68
05 12 23 00-0236	LF		W6 x 20 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	43.87 3.95 8.77	15.39
05 12 23 00-0237	LF		W6 x 15 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	38.01 3.42 7.60	14.91
05 12 23 00-0238	LF		W6 x 12 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	35.82 3.22 7.16	14.91
05 12 23 00-0239	LF		W6 x 9 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	33.01 2.97 6.60	14.82
05 12 23 00-0240	LF		W5 x 19 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	43.25 3.89 8.65	15.39
05 12 23 00-0241	LF		W5 x 16 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	40.05 3.60 8.01	15.30
05 12 23 00-0242	LF		W4 x 13 A992/A36 Structural Column For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	37.68 3.39 7.54	15.11
05 12 23 00-0243 A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0162)					
Note: Includes material delivery and erection.					
05 12 23 00-0244	LF		W36 x 300 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	339.32 30.54 67.86 2.67 -107.89 40.72	67.95
05 12 23 00-0245	LF		W36 x 280 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	325.56 29.30 65.11 2.49 -102.47 39.07	71.72
05 12 23 00-0246	LF		W36 x 260 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	309.12 27.82 61.82 2.34 -96.86 37.09	70.86
05 12 23 00-0247	LF		W36 x 240 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	291.67 26.25 58.33 2.22 -91.61 35.00	65.50
05 12 23 00-0248	LF		W36 x 230 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	283.42 25.51 56.68 2.13 -88.57 34.01	66.42
05 12 23 00-0249	LF		W36 x 210 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	267.24 24.05 53.45 1.94 -82.56 32.07	68.56
05 12 23 00-0250	LF		W36 x 194 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	255.22 22.97 51.04 1.87 -79.16 30.63	63.53
05 12 23 00-0251	LF		W36 x 182 A992/A36 Structural Beam Or Girder For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Steel, Add For Each Additional Top Copes >2, Add For Structural Tees, WT, MT Or ST, Deduct For Skewed Or Sloped Connections, Add	243.13 21.88 48.63 1.76 -75.01 29.18	63.06



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0252	LF		W36 x 170 A992/A36 Structural Beam Or Girder	230.76	62.34
			For High Strength Low Alloy A572-50 Steel, Add	20.77	
			For High Strength Low Alloy A588 Steel, Add	46.15	
			For Each Additional Top Copes >2, Add	1.64	
			For Structural Tees, WT, MT Or ST, Deduct	-70.79	
			For Skewed Or Sloped Connections, Add	27.69	
05 12 23 00-0253	LF		W36 x 160 A992/A36 Structural Beam Or Girder	225.36	66.37
			For High Strength Low Alloy A572-50 Steel, Add	20.28	
			For High Strength Low Alloy A588 Steel, Add	45.07	
			For Each Additional Top Copes >2, Add	1.55	
			For Structural Tees, WT, MT Or ST, Deduct	-68.26	
			For Skewed Or Sloped Connections, Add	27.04	
05 12 23 00-0254	LF		W36 x 150 A992/A36 Structural Beam Or Girder	216.79	65.89
			For High Strength Low Alloy A572-50 Steel, Add	19.51	
			For High Strength Low Alloy A588 Steel, Add	43.36	
			For Each Additional Top Copes >2, Add	1.47	
			For Structural Tees, WT, MT Or ST, Deduct	-65.33	
			For Skewed Or Sloped Connections, Add	26.01	
05 12 23 00-0255	LF		W36 x 135 A992/A36 Structural Beam Or Girder	204.79	65.32
			For High Strength Low Alloy A572-50 Steel, Add	18.43	
			For High Strength Low Alloy A588 Steel, Add	40.96	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-61.23	
			For Skewed Or Sloped Connections, Add	24.57	
05 12 23 00-0256	LF		W33 x 241 A992/A36 Structural Beam Or Girder	295.80	67.55
			For High Strength Low Alloy A572-50 Steel, Add	26.62	
			For High Strength Low Alloy A588 Steel, Add	59.16	
			For Each Additional Top Copes >2, Add	2.24	
			For Structural Tees, WT, MT Or ST, Deduct	-92.72	
			For Skewed Or Sloped Connections, Add	35.50	
05 12 23 00-0257	LF		W33 x 221 A992/A36 Structural Beam Or Girder	275.46	65.90
			For High Strength Low Alloy A572-50 Steel, Add	24.79	
			For High Strength Low Alloy A588 Steel, Add	55.09	
			For Each Additional Top Copes >2, Add	2.05	
			For Structural Tees, WT, MT Or ST, Deduct	-85.87	
			For Skewed Or Sloped Connections, Add	33.06	
05 12 23 00-0258	LF		W33 x 201 A992/A36 Structural Beam Or Girder	259.29	68.09
			For High Strength Low Alloy A572-50 Steel, Add	23.34	
			For High Strength Low Alloy A588 Steel, Add	51.86	
			For Each Additional Top Copes >2, Add	1.87	
			For Structural Tees, WT, MT Or ST, Deduct	-79.85	
			For Skewed Or Sloped Connections, Add	31.11	
05 12 23 00-0259	LF		W33 x 170 A992/A36 Structural Beam Or Girder	234.58	66.85
			For High Strength Low Alloy A572-50 Steel, Add	21.11	
			For High Strength Low Alloy A588 Steel, Add	46.92	
			For Each Additional Top Copes >2, Add	1.63	
			For Structural Tees, WT, MT Or ST, Deduct	-71.42	
			For Skewed Or Sloped Connections, Add	28.15	
05 12 23 00-0260	LF		W33 x 152 A992/A36 Structural Beam Or Girder	217.26	62.14
			For High Strength Low Alloy A572-50 Steel, Add	19.55	
			For High Strength Low Alloy A588 Steel, Add	43.45	
			For Each Additional Top Copes >2, Add	1.51	
			For Structural Tees, WT, MT Or ST, Deduct	-66.10	
			For Skewed Or Sloped Connections, Add	26.07	
05 12 23 00-0261	LF		W33 x 141 A992/A36 Structural Beam Or Girder	209.97	65.51
			For High Strength Low Alloy A572-50 Steel, Add	18.90	
			For High Strength Low Alloy A588 Steel, Add	41.99	
			For Each Additional Top Copes >2, Add	1.40	
			For Structural Tees, WT, MT Or ST, Deduct	-63.00	
			For Skewed Or Sloped Connections, Add	25.20	
05 12 23 00-0262	LF		W33 x 130 A992/A36 Structural Beam Or Girder	200.25	65.03
			For High Strength Low Alloy A572-50 Steel, Add	18.02	
			For High Strength Low Alloy A588 Steel, Add	40.05	
			For Each Additional Top Copes >2, Add	1.31	
			For Structural Tees, WT, MT Or ST, Deduct	-59.69	
			For Skewed Or Sloped Connections, Add	24.03	
05 12 23 00-0263	LF		W33 x 118 A992/A36 Structural Beam Or Girder	188.96	64.45
			For High Strength Low Alloy A572-50 Steel, Add	17.01	
			For High Strength Low Alloy A588 Steel, Add	37.79	
			For Each Additional Top Copes >2, Add	1.20	
			For Structural Tees, WT, MT Or ST, Deduct	-55.82	
			For Skewed Or Sloped Connections, Add	22.68	
05 12 23 00-0264	LF		W30 x 211 A992/A36 Structural Beam Or Girder	265.06	65.77
			For High Strength Low Alloy A572-50 Steel, Add	23.86	
			For High Strength Low Alloy A588 Steel, Add	53.01	
			For Each Additional Top Copes >2, Add	1.95	
			For Structural Tees, WT, MT Or ST, Deduct	-82.25	
			For Skewed Or Sloped Connections, Add	31.81	
05 12 23 00-0265	LF		W30 x 191 A992/A36 Structural Beam Or Girder	248.62	67.61
			For High Strength Low Alloy A572-50 Steel, Add	22.38	
			For High Strength Low Alloy A588 Steel, Add	49.72	
			For Each Additional Top Copes >2, Add	1.76	
			For Structural Tees, WT, MT Or ST, Deduct	-76.19	
			For Skewed Or Sloped Connections, Add	29.83	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0266	LF		W30 x 173 A992/A36 Structural Beam Or Girder.....	231.65	62.77
			For High Strength Low Alloy A572-50 Steel, Add	20.85	
			For High Strength Low Alloy A588 Steel, Add	46.33	
			For Each Additional Top Copes >2, Add	1.65	
			For Structural Tees, WT, MT Or ST, Deduct	-71.03	
			For Skewed Or Sloped Connections, Add	27.80	
05 12 23 00-0267	LF		W30 x 154 A992/A36 Structural Beam Or Girder.....	216.99	65.98
			For High Strength Low Alloy A572-50 Steel, Add	19.53	
			For High Strength Low Alloy A588 Steel, Add	43.40	
			For Each Additional Top Copes >2, Add	1.47	
			For Structural Tees, WT, MT Or ST, Deduct	-65.39	
			For Skewed Or Sloped Connections, Add	26.04	
05 12 23 00-0268	LF		W30 x 132 A992/A36 Structural Beam Or Girder.....	197.49	60.57
			For High Strength Low Alloy A572-50 Steel, Add	17.77	
			For High Strength Low Alloy A588 Steel, Add	39.50	
			For Each Additional Top Copes >2, Add	1.33	
			For Structural Tees, WT, MT Or ST, Deduct	-59.43	
			For Skewed Or Sloped Connections, Add	23.70	
05 12 23 00-0269	LF		W30 x 124 A992/A36 Structural Beam Or Girder.....	189.40	60.53
			For High Strength Low Alloy A572-50 Steel, Add	17.05	
			For High Strength Low Alloy A588 Steel, Add	37.88	
			For Each Additional Top Copes >2, Add	1.25	
			For Structural Tees, WT, MT Or ST, Deduct	-56.61	
			For Skewed Or Sloped Connections, Add	22.73	
05 12 23 00-0270	LF		W30 x 116 A992/A36 Structural Beam Or Girder.....	185.44	64.36
			For High Strength Low Alloy A572-50 Steel, Add	16.69	
			For High Strength Low Alloy A588 Steel, Add	37.09	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-54.61	
			For Skewed Or Sloped Connections, Add	22.25	
05 12 23 00-0271	LF		W30 x 108 A992/A36 Structural Beam Or Girder.....	171.08	57.95
			For High Strength Low Alloy A572-50 Steel, Add	15.40	
			For High Strength Low Alloy A588 Steel, Add	34.22	
			For Each Additional Top Copes >2, Add	1.09	
			For Structural Tees, WT, MT Or ST, Deduct	-50.61	
			For Skewed Or Sloped Connections, Add	20.53	
05 12 23 00-0272	LF		W30 x 99 A992/A36 Structural Beam Or Girder	164.15	57.67
			For High Strength Low Alloy A572-50 Steel, Add	14.77	
			For High Strength Low Alloy A588 Steel, Add	32.83	
			For Each Additional Top Copes >2, Add	1.03	
			For Structural Tees, WT, MT Or ST, Deduct	-48.24	
			For Skewed Or Sloped Connections, Add	19.70	
05 12 23 00-0273	LF		W27 x 178 A992/A36 Structural Beam Or Girder.....	258.81	73.50
			For High Strength Low Alloy A572-50 Steel, Add	23.29	
			For High Strength Low Alloy A588 Steel, Add	51.76	
			For Each Additional Top Copes >2, Add	1.80	
			For Structural Tees, WT, MT Or ST, Deduct	-78.82	
			For Skewed Or Sloped Connections, Add	31.06	
05 12 23 00-0274	LF		W27 x 161 A992/A36 Structural Beam Or Girder.....	238.62	70.72
			For High Strength Low Alloy A572-50 Steel, Add	21.48	
			For High Strength Low Alloy A588 Steel, Add	47.72	
			For Each Additional Top Copes >2, Add	1.63	
			For Structural Tees, WT, MT Or ST, Deduct	-72.20	
			For Skewed Or Sloped Connections, Add	28.63	
05 12 23 00-0275	LF		W27 x 146 A992/A36 Structural Beam Or Girder.....	220.75	68.22
			For High Strength Low Alloy A572-50 Steel, Add	19.87	
			For High Strength Low Alloy A588 Steel, Add	44.15	
			For Each Additional Top Copes >2, Add	1.48	
			For Structural Tees, WT, MT Or ST, Deduct	-66.35	
			For Skewed Or Sloped Connections, Add	26.49	
05 12 23 00-0276	LF		W27 x 114 A992/A36 Structural Beam Or Girder.....	175.99	56.67
			For High Strength Low Alloy A572-50 Steel, Add	15.84	
			For High Strength Low Alloy A588 Steel, Add	35.20	
			For Each Additional Top Copes >2, Add	1.16	
			For Structural Tees, WT, MT Or ST, Deduct	-52.53	
			For Skewed Or Sloped Connections, Add	21.12	
05 12 23 00-0277	LF		W27 x 102 A992/A36 Structural Beam Or Girder.....	164.87	57.67
			For High Strength Low Alloy A572-50 Steel, Add	14.84	
			For High Strength Low Alloy A588 Steel, Add	32.97	
			For Each Additional Top Copes >2, Add	1.03	
			For Structural Tees, WT, MT Or ST, Deduct	-48.48	
			For Skewed Or Sloped Connections, Add	19.78	
05 12 23 00-0278	LF		W27 x 94 A992/A36 Structural Beam Or Girder	158.35	57.28
			For High Strength Low Alloy A572-50 Steel, Add	14.25	
			For High Strength Low Alloy A588 Steel, Add	31.67	
			For Each Additional Top Copes >2, Add	0.97	
			For Structural Tees, WT, MT Or ST, Deduct	-46.26	
			For Skewed Or Sloped Connections, Add	19.00	
05 12 23 00-0279	LF		W27 x 84 A992/A36 Structural Beam Or Girder	150.40	56.90
			For High Strength Low Alloy A572-50 Steel, Add	13.54	
			For High Strength Low Alloy A588 Steel, Add	30.08	
			For Each Additional Top Copes >2, Add	0.90	
			For Structural Tees, WT, MT Or ST, Deduct	-43.55	
			For Skewed Or Sloped Connections, Add	18.05	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0280	LF	W24 x 162 A992/A36 Structural Beam Or Girder	229.72	67.80
		For High Strength Low Alloy A572-50 Steel, Add	20.67	
		For High Strength Low Alloy A588 Steel, Add	45.94	
		For Each Additional Top Copes >2, Add	1.57	
		For Structural Tees, WT, MT Or ST, Deduct	-69.55	
		For Skewed Or Sloped Connections, Add	27.57	
05 12 23 00-0281	LF	W24 x 146 A992/A36 Structural Beam Or Girder	211.19	65.00
		For High Strength Low Alloy A572-50 Steel, Add	19.01	
		For High Strength Low Alloy A588 Steel, Add	42.24	
		For Each Additional Top Copes >2, Add	1.42	
		For Structural Tees, WT, MT Or ST, Deduct	-63.52	
		For Skewed Or Sloped Connections, Add	25.34	
05 12 23 00-0282	LF	W24 x 131 A992/A36 Structural Beam Or Girder	193.46	62.05
		For High Strength Low Alloy A572-50 Steel, Add	17.41	
		For High Strength Low Alloy A588 Steel, Add	38.69	
		For Each Additional Top Copes >2, Add	1.27	
		For Structural Tees, WT, MT Or ST, Deduct	-57.78	
		For Skewed Or Sloped Connections, Add	23.22	
05 12 23 00-0283	LF	W24 x 117 A992/A36 Structural Beam Or Girder	176.55	58.96
		For High Strength Low Alloy A572-50 Steel, Add	15.89	
		For High Strength Low Alloy A588 Steel, Add	35.31	
		For Each Additional Top Copes >2, Add	1.14	
		For Structural Tees, WT, MT Or ST, Deduct	-52.36	
		For Skewed Or Sloped Connections, Add	21.19	
05 12 23 00-0284	LF	W24 x 104 A992/A36 Structural Beam Or Girder	160.50	55.75
		For High Strength Low Alloy A572-50 Steel, Add	14.45	
		For High Strength Low Alloy A588 Steel, Add	32.10	
		For Each Additional Top Copes >2, Add	1.01	
		For Structural Tees, WT, MT Or ST, Deduct	-47.26	
		For Skewed Or Sloped Connections, Add	19.26	
05 12 23 00-0285	LF	W24 x 94 A992/A36 Structural Beam Or Girder	152.43	57.28
		For High Strength Low Alloy A572-50 Steel, Add	13.72	
		For High Strength Low Alloy A588 Steel, Add	30.49	
		For Each Additional Top Copes >2, Add	0.91	
		For Structural Tees, WT, MT Or ST, Deduct	-44.19	
		For Skewed Or Sloped Connections, Add	18.29	
05 12 23 00-0286	LF	W24 x 84 A992/A36 Structural Beam Or Girder	138.59	50.78
		For High Strength Low Alloy A572-50 Steel, Add	12.47	
		For High Strength Low Alloy A588 Steel, Add	27.72	
		For Each Additional Top Copes >2, Add	0.84	
		For Structural Tees, WT, MT Or ST, Deduct	-40.37	
		For Skewed Or Sloped Connections, Add	16.63	
05 12 23 00-0287	LF	W24 x 76 A992/A36 Structural Beam Or Girder	132.49	50.39
		For High Strength Low Alloy A572-50 Steel, Add	11.92	
		For High Strength Low Alloy A588 Steel, Add	26.50	
		For Each Additional Top Copes >2, Add	0.79	
		For Structural Tees, WT, MT Or ST, Deduct	-38.30	
		For Skewed Or Sloped Connections, Add	15.90	
05 12 23 00-0288	LF	W24 x 68 A992/A36 Structural Beam Or Girder	124.84	50.11
		For High Strength Low Alloy A572-50 Steel, Add	11.24	
		For High Strength Low Alloy A588 Steel, Add	24.97	
		For Each Additional Top Copes >2, Add	0.71	
		For Structural Tees, WT, MT Or ST, Deduct	-35.68	
		For Skewed Or Sloped Connections, Add	14.98	
05 12 23 00-0289	LF	W24 x 62 A992/A36 Structural Beam Or Girder	120.81	49.82
		For High Strength Low Alloy A572-50 Steel, Add	10.87	
		For High Strength Low Alloy A588 Steel, Add	24.16	
		For Each Additional Top Copes >2, Add	0.68	
		For Structural Tees, WT, MT Or ST, Deduct	-34.31	
		For Skewed Or Sloped Connections, Add	14.50	
05 12 23 00-0290	LF	W24 x 55 A992/A36 Structural Beam Or Girder	115.32	49.63
		For High Strength Low Alloy A572-50 Steel, Add	10.38	
		For High Strength Low Alloy A588 Steel, Add	23.06	
		For Each Additional Top Copes >2, Add	0.62	
		For Structural Tees, WT, MT Or ST, Deduct	-32.43	
		For Skewed Or Sloped Connections, Add	13.84	
05 12 23 00-0291	LF	W21 x 147 A992/A36 Structural Beam Or Girder	199.73	55.76
		For High Strength Low Alloy A572-50 Steel, Add	17.98	
		For High Strength Low Alloy A588 Steel, Add	39.95	
		For Each Additional Top Copes >2, Add	1.40	
		For Structural Tees, WT, MT Or ST, Deduct	-60.98	
		For Skewed Or Sloped Connections, Add	23.97	
05 12 23 00-0292	LF	W21 x 132 A992/A36 Structural Beam Or Girder	182.76	53.27
		For High Strength Low Alloy A572-50 Steel, Add	16.45	
		For High Strength Low Alloy A588 Steel, Add	36.55	
		For Each Additional Top Copes >2, Add	1.26	
		For Structural Tees, WT, MT Or ST, Deduct	-55.44	
		For Skewed Or Sloped Connections, Add	21.93	
05 12 23 00-0293	LF	W21 x 122 A992/A36 Structural Beam Or Girder	172.27	52.38
		For High Strength Low Alloy A572-50 Steel, Add	15.50	
		For High Strength Low Alloy A588 Steel, Add	34.45	
		For Each Additional Top Copes >2, Add	1.16	
		For Structural Tees, WT, MT Or ST, Deduct	-51.91	
		For Skewed Or Sloped Connections, Add	20.67	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0294 LF W21 x 111 A992/A36 Structural Beam Or Girder.....	159.98	50.70
For High Strength Low Alloy A572-50 Steel, Add	14.40	
For High Strength Low Alloy A588 Steel, Add	32.00	
For Each Additional Top Copes >2, Add	1.06	
For Structural Tees, WT, MT Or ST, Deduct	-47.88	
For Skewed Or Sloped Connections, Add	19.20	
05 12 23 00-0295 LF W21 x 101 A992/A36 Structural Beam Or Girder.....	148.71	49.08
For High Strength Low Alloy A572-50 Steel, Add	13.38	
For High Strength Low Alloy A588 Steel, Add	29.74	
For Each Additional Top Copes >2, Add	0.96	
For Structural Tees, WT, MT Or ST, Deduct	-44.20	
For Skewed Or Sloped Connections, Add	17.85	
05 12 23 00-0296 LF W21 x 93 A992/A36 Structural Beam Or Girder	143.53	51.35
For High Strength Low Alloy A572-50 Steel, Add	12.92	
For High Strength Low Alloy A588 Steel, Add	28.71	
For Each Additional Top Copes >2, Add	0.89	
For Structural Tees, WT, MT Or ST, Deduct	-42.02	
For Skewed Or Sloped Connections, Add	17.22	
05 12 23 00-0297 LF W21 x 83 A992/A36 Structural Beam Or Girder	136.30	50.78
For High Strength Low Alloy A572-50 Steel, Add	12.27	
For High Strength Low Alloy A588 Steel, Add	27.26	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-39.57	
For Skewed Or Sloped Connections, Add	16.36	
05 12 23 00-0298 LF W21 x 73 A992/A36 Structural Beam Or Girder	127.51	50.39
For High Strength Low Alloy A572-50 Steel, Add	11.48	
For High Strength Low Alloy A588 Steel, Add	25.50	
For Each Additional Top Copes >2, Add	0.74	
For Structural Tees, WT, MT Or ST, Deduct	-36.57	
For Skewed Or Sloped Connections, Add	15.30	
05 12 23 00-0299 LF W21 x 68 A992/A36 Structural Beam Or Girder	123.07	50.11
For High Strength Low Alloy A572-50 Steel, Add	11.08	
For High Strength Low Alloy A588 Steel, Add	24.61	
For Each Additional Top Copes >2, Add	0.70	
For Structural Tees, WT, MT Or ST, Deduct	-35.06	
For Skewed Or Sloped Connections, Add	14.77	
05 12 23 00-0300 LF W21 x 62 A992/A36 Structural Beam Or Girder	119.04	49.82
For High Strength Low Alloy A572-50 Steel, Add	10.71	
For High Strength Low Alloy A588 Steel, Add	23.81	
For Each Additional Top Copes >2, Add	0.66	
For Structural Tees, WT, MT Or ST, Deduct	-33.69	
For Skewed Or Sloped Connections, Add	14.28	
05 12 23 00-0301 LF W21 x 57 A992/A36 Structural Beam Or Girder	115.42	49.73
For High Strength Low Alloy A572-50 Steel, Add	10.39	
For High Strength Low Alloy A588 Steel, Add	23.08	
For Each Additional Top Copes >2, Add	0.62	
For Structural Tees, WT, MT Or ST, Deduct	-32.45	
For Skewed Or Sloped Connections, Add	13.85	
05 12 23 00-0302 LF W21 x 50 A992/A36 Structural Beam Or Girder	102.09	43.13
For High Strength Low Alloy A572-50 Steel, Add	9.19	
For High Strength Low Alloy A588 Steel, Add	20.42	
For Each Additional Top Copes >2, Add	0.56	
For Structural Tees, WT, MT Or ST, Deduct	-28.82	
For Skewed Or Sloped Connections, Add	12.25	
05 12 23 00-0303 LF W21 x 44 A992/A36 Structural Beam Or Girder	97.85	42.94
For High Strength Low Alloy A572-50 Steel, Add	8.81	
For High Strength Low Alloy A588 Steel, Add	19.57	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-27.38	
For Skewed Or Sloped Connections, Add	11.74	
05 12 23 00-0304 LF W18 x 119 A992/A36 Structural Beam Or Girder.....	167.98	52.19
For High Strength Low Alloy A572-50 Steel, Add	15.12	
For High Strength Low Alloy A588 Steel, Add	33.60	
For Each Additional Top Copes >2, Add	1.12	
For Structural Tees, WT, MT Or ST, Deduct	-50.44	
For Skewed Or Sloped Connections, Add	20.16	
05 12 23 00-0305 LF W18 x 106 A992/A36 Structural Beam Or Girder.....	152.79	49.47
For High Strength Low Alloy A572-50 Steel, Add	13.75	
For High Strength Low Alloy A588 Steel, Add	30.56	
For Each Additional Top Copes >2, Add	1.00	
For Structural Tees, WT, MT Or ST, Deduct	-45.56	
For Skewed Or Sloped Connections, Add	18.33	
05 12 23 00-0306 LF W18 x 97 A992/A36 Structural Beam Or Girder	146.43	51.35
For High Strength Low Alloy A572-50 Steel, Add	13.18	
For High Strength Low Alloy A588 Steel, Add	29.29	
For Each Additional Top Copes >2, Add	0.92	
For Structural Tees, WT, MT Or ST, Deduct	-43.02	
For Skewed Or Sloped Connections, Add	17.57	
05 12 23 00-0307 LF W18 x 86 A992/A36 Structural Beam Or Girder	138.17	50.87
For High Strength Low Alloy A572-50 Steel, Add	12.44	
For High Strength Low Alloy A588 Steel, Add	27.63	
For Each Additional Top Copes >2, Add	0.84	
For Structural Tees, WT, MT Or ST, Deduct	-40.21	
For Skewed Or Sloped Connections, Add	16.58	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0308	LF		W18 x 76 A992/A36 Structural Beam Or Girder	130.73	50.39
			For High Strength Low Alloy A572-50 Steel, Add	11.77	
			For High Strength Low Alloy A588 Steel, Add	26.15	
			For Each Additional Top Copes >2, Add	0.77	
			For Structural Tees, WT, MT Or ST, Deduct	-37.68	
			For Skewed Or Sloped Connections, Add	15.69	
05 12 23 00-0309	LF		W18 x 71 A992/A36 Structural Beam Or Girder	125.34	50.30
			For High Strength Low Alloy A572-50 Steel, Add	11.28	
			For High Strength Low Alloy A588 Steel, Add	25.07	
			For Each Additional Top Copes >2, Add	0.72	
			For Structural Tees, WT, MT Or ST, Deduct	-35.82	
			For Skewed Or Sloped Connections, Add	15.04	
05 12 23 00-0310	LF		W18 x 65 A992/A36 Structural Beam Or Girder	120.06	50.11
			For High Strength Low Alloy A572-50 Steel, Add	10.81	
			For High Strength Low Alloy A588 Steel, Add	24.01	
			For Each Additional Top Copes >2, Add	0.67	
			For Structural Tees, WT, MT Or ST, Deduct	-34.02	
			For Skewed Or Sloped Connections, Add	14.41	
05 12 23 00-0311	LF		W18 x 60 A992/A36 Structural Beam Or Girder	115.31	49.73
			For High Strength Low Alloy A572-50 Steel, Add	10.38	
			For High Strength Low Alloy A588 Steel, Add	23.06	
			For Each Additional Top Copes >2, Add	0.62	
			For Structural Tees, WT, MT Or ST, Deduct	-32.40	
			For Skewed Or Sloped Connections, Add	13.84	
05 12 23 00-0312	LF		W18 x 55 A992/A36 Structural Beam Or Girder	110.54	49.63
			For High Strength Low Alloy A572-50 Steel, Add	9.95	
			For High Strength Low Alloy A588 Steel, Add	22.11	
			For Each Additional Top Copes >2, Add	0.58	
			For Structural Tees, WT, MT Or ST, Deduct	-30.76	
			For Skewed Or Sloped Connections, Add	13.26	
05 12 23 00-0313	LF		W18 x 50 A992/A36 Structural Beam Or Girder	99.18	43.13
			For High Strength Low Alloy A572-50 Steel, Add	8.93	
			For High Strength Low Alloy A588 Steel, Add	19.84	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-27.80	
			For Skewed Or Sloped Connections, Add	11.90	
05 12 23 00-0314	LF		W18 x 46 A992/A36 Structural Beam Or Girder	95.46	43.04
			For High Strength Low Alloy A572-50 Steel, Add	8.59	
			For High Strength Low Alloy A588 Steel, Add	19.09	
			For Each Additional Top Copes >2, Add	0.50	
			For Structural Tees, WT, MT Or ST, Deduct	-26.53	
			For Skewed Or Sloped Connections, Add	11.46	
05 12 23 00-0315	LF		W18 x 40 A992/A36 Structural Beam Or Girder	83.26	36.72
			For High Strength Low Alloy A572-50 Steel, Add	7.49	
			For High Strength Low Alloy A588 Steel, Add	16.65	
			For Each Additional Top Copes >2, Add	0.44	
			For Structural Tees, WT, MT Or ST, Deduct	-23.26	
			For Skewed Or Sloped Connections, Add	9.99	
05 12 23 00-0316	LF		W18 x 35 A992/A36 Structural Beam Or Girder	78.61	36.62
			For High Strength Low Alloy A572-50 Steel, Add	7.07	
			For High Strength Low Alloy A588 Steel, Add	15.72	
			For Each Additional Top Copes >2, Add	0.40	
			For Structural Tees, WT, MT Or ST, Deduct	-21.66	
			For Skewed Or Sloped Connections, Add	9.43	
05 12 23 00-0317	LF		W16 x 100 A992/A36 Structural Beam Or Girder	133.96	33.38
			For High Strength Low Alloy A572-50 Steel, Add	12.06	
			For High Strength Low Alloy A588 Steel, Add	26.79	
			For Each Additional Top Copes >2, Add	0.98	
			For Structural Tees, WT, MT Or ST, Deduct	-41.55	
			For Skewed Or Sloped Connections, Add	16.08	
05 12 23 00-0318	LF		W16 x 89 A992/A36 Structural Beam Or Girder	123.42	32.80
			For High Strength Low Alloy A572-50 Steel, Add	11.11	
			For High Strength Low Alloy A588 Steel, Add	24.68	
			For Each Additional Top Copes >2, Add	0.88	
			For Structural Tees, WT, MT Or ST, Deduct	-37.95	
			For Skewed Or Sloped Connections, Add	14.81	
05 12 23 00-0319	LF		W16 x 77 A992/A36 Structural Beam Or Girder	112.13	32.42
			For High Strength Low Alloy A572-50 Steel, Add	10.09	
			For High Strength Low Alloy A588 Steel, Add	22.43	
			For Each Additional Top Copes >2, Add	0.78	
			For Structural Tees, WT, MT Or ST, Deduct	-34.07	
			For Skewed Or Sloped Connections, Add	13.46	
05 12 23 00-0320	LF		W16 x 67 A992/A36 Structural Beam Or Girder	102.51	31.94
			For High Strength Low Alloy A572-50 Steel, Add	9.23	
			For High Strength Low Alloy A588 Steel, Add	20.50	
			For Each Additional Top Copes >2, Add	0.68	
			For Structural Tees, WT, MT Or ST, Deduct	-30.77	
			For Skewed Or Sloped Connections, Add	12.30	
05 12 23 00-0321	LF		W16 x 57 A992/A36 Structural Beam Or Girder	92.99	31.46
			For High Strength Low Alloy A572-50 Steel, Add	8.37	
			For High Strength Low Alloy A588 Steel, Add	18.60	
			For Each Additional Top Copes >2, Add	0.59	
			For Structural Tees, WT, MT Or ST, Deduct	-27.51	
			For Skewed Or Sloped Connections, Add	11.16	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0322	LF		W16 x 50 A992/A36 Structural Beam Or Girder	86.37	31.17
			For High Strength Low Alloy A572-50 Steel, Add	7.77	
			For High Strength Low Alloy A588 Steel, Add	17.27	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-25.24	
			For Skewed Or Sloped Connections, Add	10.36	
05 12 23 00-0323	LF		W16 x 45 A992/A36 Structural Beam Or Girder	81.72	30.98
			For High Strength Low Alloy A572-50 Steel, Add	7.35	
			For High Strength Low Alloy A588 Steel, Add	16.34	
			For Each Additional Top Copes >2, Add	0.49	
			For Structural Tees, WT, MT Or ST, Deduct	-23.64	
			For Skewed Or Sloped Connections, Add	9.81	
05 12 23 00-0324	LF		W16 x 40 A992/A36 Structural Beam Or Girder	76.85	30.70
			For High Strength Low Alloy A572-50 Steel, Add	6.92	
			For High Strength Low Alloy A588 Steel, Add	15.37	
			For Each Additional Top Copes >2, Add	0.44	
			For Structural Tees, WT, MT Or ST, Deduct	-21.98	
			For Skewed Or Sloped Connections, Add	9.22	
05 12 23 00-0325	LF		W16 x 36 A992/A36 Structural Beam Or Girder	73.03	30.50
			For High Strength Low Alloy A572-50 Steel, Add	6.57	
			For High Strength Low Alloy A588 Steel, Add	14.61	
			For Each Additional Top Copes >2, Add	0.41	
			For Structural Tees, WT, MT Or ST, Deduct	-20.68	
			For Skewed Or Sloped Connections, Add	8.76	
05 12 23 00-0326	LF		W16 x 31 A992/A36 Structural Beam Or Girder	61.86	24.29
			For High Strength Low Alloy A572-50 Steel, Add	5.57	
			For High Strength Low Alloy A588 Steel, Add	12.37	
			For Each Additional Top Copes >2, Add	0.36	
			For Structural Tees, WT, MT Or ST, Deduct	-17.76	
			For Skewed Or Sloped Connections, Add	7.42	
05 12 23 00-0327	LF		W16 x 26 A992/A36 Structural Beam Or Girder	55.77	24.00
			For High Strength Low Alloy A572-50 Steel, Add	5.02	
			For High Strength Low Alloy A588 Steel, Add	11.15	
			For Each Additional Top Copes >2, Add	0.30	
			For Structural Tees, WT, MT Or ST, Deduct	-15.68	
			For Skewed Or Sloped Connections, Add	6.69	
05 12 23 00-0328	LF		W14 x 99 A992/A36 Structural Beam Or Girder	126.62	27.35
			For High Strength Low Alloy A572-50 Steel, Add	11.40	
			For High Strength Low Alloy A588 Steel, Add	25.32	
			For Each Additional Top Copes >2, Add	0.97	
			For Structural Tees, WT, MT Or ST, Deduct	-39.94	
			For Skewed Or Sloped Connections, Add	15.19	
05 12 23 00-0329	LF		W14 x 90 A992/A36 Structural Beam Or Girder	118.03	26.87
			For High Strength Low Alloy A572-50 Steel, Add	10.62	
			For High Strength Low Alloy A588 Steel, Add	23.61	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-37.01	
			For Skewed Or Sloped Connections, Add	14.16	
05 12 23 00-0330	LF		W14 x 82 A992/A36 Structural Beam Or Girder	110.39	26.58
			For High Strength Low Alloy A572-50 Steel, Add	9.94	
			For High Strength Low Alloy A588 Steel, Add	22.08	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-34.39	
			For Skewed Or Sloped Connections, Add	13.25	
05 12 23 00-0331	LF		W14 x 74 A992/A36 Structural Beam Or Girder	102.74	26.21
			For High Strength Low Alloy A572-50 Steel, Add	9.25	
			For High Strength Low Alloy A588 Steel, Add	20.55	
			For Each Additional Top Copes >2, Add	0.75	
			For Structural Tees, WT, MT Or ST, Deduct	-31.77	
			For Skewed Or Sloped Connections, Add	12.33	
05 12 23 00-0332	LF		W14 x 68 A992/A36 Structural Beam Or Girder	97.04	25.91
			For High Strength Low Alloy A572-50 Steel, Add	8.73	
			For High Strength Low Alloy A588 Steel, Add	19.41	
			For Each Additional Top Copes >2, Add	0.69	
			For Structural Tees, WT, MT Or ST, Deduct	-29.82	
			For Skewed Or Sloped Connections, Add	11.64	
05 12 23 00-0333	LF		W14 x 61 A992/A36 Structural Beam Or Girder	90.42	25.63
			For High Strength Low Alloy A572-50 Steel, Add	8.14	
			For High Strength Low Alloy A588 Steel, Add	18.08	
			For Each Additional Top Copes >2, Add	0.63	
			For Structural Tees, WT, MT Or ST, Deduct	-27.54	
			For Skewed Or Sloped Connections, Add	10.85	
05 12 23 00-0334	LF		W14 x 53 A992/A36 Structural Beam Or Girder	82.87	25.25
			For High Strength Low Alloy A572-50 Steel, Add	7.46	
			For High Strength Low Alloy A588 Steel, Add	16.57	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-24.96	
			For Skewed Or Sloped Connections, Add	9.94	
05 12 23 00-0335	LF		W14 x 48 A992/A36 Structural Beam Or Girder	78.01	24.96
			For High Strength Low Alloy A572-50 Steel, Add	7.02	
			For High Strength Low Alloy A588 Steel, Add	15.60	
			For Each Additional Top Copes >2, Add	0.51	
			For Structural Tees, WT, MT Or ST, Deduct	-23.30	
			For Skewed Or Sloped Connections, Add	9.36	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0336	LF		W14 x 43 A992/A36 Structural Beam Or Girder	73.24	24.86
			For High Strength Low Alloy A572-50 Steel, Add	6.59	
			For High Strength Low Alloy A588 Steel, Add	14.65	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-21.66	
			For Skewed Or Sloped Connections, Add	8.79	
05 12 23 00-0337	LF		W14 x 38 A992/A36 Structural Beam Or Girder	68.50	24.68
			For High Strength Low Alloy A572-50 Steel, Add	6.17	
			For High Strength Low Alloy A588 Steel, Add	13.70	
			For Each Additional Top Copes >2, Add	0.42	
			For Structural Tees, WT, MT Or ST, Deduct	-20.04	
			For Skewed Or Sloped Connections, Add	8.22	
05 12 23 00-0338	LF		W14 x 34 A992/A36 Structural Beam Or Girder	64.66	24.38
			For High Strength Low Alloy A572-50 Steel, Add	5.82	
			For High Strength Low Alloy A588 Steel, Add	12.93	
			For Each Additional Top Copes >2, Add	0.39	
			For Structural Tees, WT, MT Or ST, Deduct	-18.73	
			For Skewed Or Sloped Connections, Add	7.76	
05 12 23 00-0339	LF		W14 x 30 A992/A36 Structural Beam Or Girder	60.83	24.29
			For High Strength Low Alloy A572-50 Steel, Add	5.47	
			For High Strength Low Alloy A588 Steel, Add	12.17	
			For Each Additional Top Copes >2, Add	0.35	
			For Structural Tees, WT, MT Or ST, Deduct	-17.42	
			For Skewed Or Sloped Connections, Add	7.30	
05 12 23 00-0340	LF		W14 x 26 A992/A36 Structural Beam Or Girder	57.01	24.00
			For High Strength Low Alloy A572-50 Steel, Add	5.13	
			For High Strength Low Alloy A588 Steel, Add	11.40	
			For Each Additional Top Copes >2, Add	0.31	
			For Structural Tees, WT, MT Or ST, Deduct	-16.11	
			For Skewed Or Sloped Connections, Add	6.84	
05 12 23 00-0341	LF		W14 x 22 A992/A36 Structural Beam Or Girder	53.29	23.91
			For High Strength Low Alloy A572-50 Steel, Add	4.80	
			For High Strength Low Alloy A588 Steel, Add	10.66	
			For Each Additional Top Copes >2, Add	0.28	
			For Structural Tees, WT, MT Or ST, Deduct	-14.84	
			For Skewed Or Sloped Connections, Add	6.39	
05 12 23 00-0342	LF		W12 x 87 A992/A36 Structural Beam Or Girder	115.24	26.78
			For High Strength Low Alloy A572-50 Steel, Add	10.37	
			For High Strength Low Alloy A588 Steel, Add	23.05	
			For Each Additional Top Copes >2, Add	0.87	
			For Structural Tees, WT, MT Or ST, Deduct	-36.05	
			For Skewed Or Sloped Connections, Add	13.83	
05 12 23 00-0343	LF		W12 x 79 A992/A36 Structural Beam Or Girder	107.59	26.39
			For High Strength Low Alloy A572-50 Steel, Add	9.68	
			For High Strength Low Alloy A588 Steel, Add	21.52	
			For Each Additional Top Copes >2, Add	0.79	
			For Structural Tees, WT, MT Or ST, Deduct	-33.43	
			For Skewed Or Sloped Connections, Add	12.91	
05 12 23 00-0344	LF		W12 x 72 A992/A36 Structural Beam Or Girder	100.87	26.10
			For High Strength Low Alloy A572-50 Steel, Add	9.08	
			For High Strength Low Alloy A588 Steel, Add	20.17	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-31.13	
			For Skewed Or Sloped Connections, Add	12.10	
05 12 23 00-0345	LF		W12 x 65 A992/A36 Structural Beam Or Girder	94.24	25.82
			For High Strength Low Alloy A572-50 Steel, Add	8.48	
			For High Strength Low Alloy A588 Steel, Add	18.85	
			For Each Additional Top Copes >2, Add	0.67	
			For Structural Tees, WT, MT Or ST, Deduct	-28.85	
			For Skewed Or Sloped Connections, Add	11.31	
05 12 23 00-0346	LF		W12 x 58 A992/A36 Structural Beam Or Girder	87.53	25.44
			For High Strength Low Alloy A572-50 Steel, Add	7.88	
			For High Strength Low Alloy A588 Steel, Add	17.51	
			For Each Additional Top Copes >2, Add	0.60	
			For Structural Tees, WT, MT Or ST, Deduct	-26.56	
			For Skewed Or Sloped Connections, Add	10.50	
05 12 23 00-0347	LF		W12 x 53 A992/A36 Structural Beam Or Girder	82.87	25.25
			For High Strength Low Alloy A572-50 Steel, Add	7.46	
			For High Strength Low Alloy A588 Steel, Add	16.57	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-24.96	
			For Skewed Or Sloped Connections, Add	9.94	
05 12 23 00-0348	LF		W12 x 50 A992/A36 Structural Beam Or Girder	79.87	25.15
			For High Strength Low Alloy A572-50 Steel, Add	7.19	
			For High Strength Low Alloy A588 Steel, Add	15.97	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-23.94	
			For Skewed Or Sloped Connections, Add	9.58	
05 12 23 00-0349	LF		W12 x 45 A992/A36 Structural Beam Or Girder	75.21	24.96
			For High Strength Low Alloy A572-50 Steel, Add	6.77	
			For High Strength Low Alloy A588 Steel, Add	15.04	
			For Each Additional Top Copes >2, Add	0.49	
			For Structural Tees, WT, MT Or ST, Deduct	-22.34	
			For Skewed Or Sloped Connections, Add	9.03	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0350	LF		W12 x 40 A992/A36 Structural Beam Or Girder	63.85	18.56
			For High Strength Low Alloy A572-50 Steel, Add	5.75	
			For High Strength Low Alloy A588 Steel, Add	12.77	
			For Each Additional Top Copes >2, Add	0.44	
			For Structural Tees, WT, MT Or ST, Deduct	-19.38	
			For Skewed Or Sloped Connections, Add	7.66	
05 12 23 00-0351	LF		W12 x 35 A992/A36 Structural Beam Or Girder	59.20	18.45
			For High Strength Low Alloy A572-50 Steel, Add	5.33	
			For High Strength Low Alloy A588 Steel, Add	11.84	
			For Each Additional Top Copes >2, Add	0.40	
			For Structural Tees, WT, MT Or ST, Deduct	-17.78	
			For Skewed Or Sloped Connections, Add	7.10	
05 12 23 00-0352	LF		W12 x 30 A992/A36 Structural Beam Or Girder	54.33	18.17
			For High Strength Low Alloy A572-50 Steel, Add	4.89	
			For High Strength Low Alloy A588 Steel, Add	10.87	
			For Each Additional Top Copes >2, Add	0.35	
			For Structural Tees, WT, MT Or ST, Deduct	-16.12	
			For Skewed Or Sloped Connections, Add	6.52	
05 12 23 00-0353	LF		W12 x 26 A992/A36 Structural Beam Or Girder	50.51	17.97
			For High Strength Low Alloy A572-50 Steel, Add	4.55	
			For High Strength Low Alloy A588 Steel, Add	10.10	
			For Each Additional Top Copes >2, Add	0.31	
			For Structural Tees, WT, MT Or ST, Deduct	-14.81	
			For Skewed Or Sloped Connections, Add	6.06	
05 12 23 00-0354	LF		W12 x 22 A992/A36 Structural Beam Or Girder	46.78	17.79
			For High Strength Low Alloy A572-50 Steel, Add	4.21	
			For High Strength Low Alloy A588 Steel, Add	9.36	
			For Each Additional Top Copes >2, Add	0.28	
			For Structural Tees, WT, MT Or ST, Deduct	-13.53	
			For Skewed Or Sloped Connections, Add	5.61	
05 12 23 00-0355	LF		W12 x 19 A992/A36 Structural Beam Or Girder	43.88	17.69
			For High Strength Low Alloy A572-50 Steel, Add	3.95	
			For High Strength Low Alloy A588 Steel, Add	8.78	
			For Each Additional Top Copes >2, Add	0.25	
			For Structural Tees, WT, MT Or ST, Deduct	-12.53	
			For Skewed Or Sloped Connections, Add	5.27	
05 12 23 00-0356	LF		W12 x 16 A992/A36 Structural Beam Or Girder	40.99	17.40
			For High Strength Low Alloy A572-50 Steel, Add	3.69	
			For High Strength Low Alloy A588 Steel, Add	8.20	
			For Each Additional Top Copes >2, Add	0.22	
			For Structural Tees, WT, MT Or ST, Deduct	-11.55	
			For Skewed Or Sloped Connections, Add	4.92	
05 12 23 00-0357	LF		W12 x 14 A992/A36 Structural Beam Or Girder	39.13	17.40
			For High Strength Low Alloy A572-50 Steel, Add	3.52	
			For High Strength Low Alloy A588 Steel, Add	7.83	
			For Each Additional Top Copes >2, Add	0.21	
			For Structural Tees, WT, MT Or ST, Deduct	-10.91	
			For Skewed Or Sloped Connections, Add	4.70	
05 12 23 00-0358	LF		W10 x 68 A992/A36 Structural Beam Or Girder	90.84	19.98
			For High Strength Low Alloy A572-50 Steel, Add	8.18	
			For High Strength Low Alloy A588 Steel, Add	18.17	
			For Each Additional Top Copes >2, Add	0.70	
			For Structural Tees, WT, MT Or ST, Deduct	-28.61	
			For Skewed Or Sloped Connections, Add	10.90	
05 12 23 00-0359	LF		W10 x 60 A992/A36 Structural Beam Or Girder	83.29	19.61
			For High Strength Low Alloy A572-50 Steel, Add	7.50	
			For High Strength Low Alloy A588 Steel, Add	16.66	
			For Each Additional Top Copes >2, Add	0.62	
			For Structural Tees, WT, MT Or ST, Deduct	-26.02	
			For Skewed Or Sloped Connections, Add	9.99	
05 12 23 00-0360	LF		W10 x 54 A992/A36 Structural Beam Or Girder	77.51	19.22
			For High Strength Low Alloy A572-50 Steel, Add	6.98	
			For High Strength Low Alloy A588 Steel, Add	15.50	
			For Each Additional Top Copes >2, Add	0.57	
			For Structural Tees, WT, MT Or ST, Deduct	-24.04	
			For Skewed Or Sloped Connections, Add	9.30	
05 12 23 00-0361	LF		W10 x 49 A992/A36 Structural Beam Or Girder	72.74	19.04
			For High Strength Low Alloy A572-50 Steel, Add	6.55	
			For High Strength Low Alloy A588 Steel, Add	14.55	
			For Each Additional Top Copes >2, Add	0.52	
			For Structural Tees, WT, MT Or ST, Deduct	-22.42	
			For Skewed Or Sloped Connections, Add	8.73	
05 12 23 00-0362	LF		W10 x 45 A992/A36 Structural Beam Or Girder	68.92	18.93
			For High Strength Low Alloy A572-50 Steel, Add	6.20	
			For High Strength Low Alloy A588 Steel, Add	13.78	
			For Each Additional Top Copes >2, Add	0.49	
			For Structural Tees, WT, MT Or ST, Deduct	-21.11	
			For Skewed Or Sloped Connections, Add	8.27	
05 12 23 00-0363	LF		W10 x 39 A992/A36 Structural Beam Or Girder	63.23	18.56
			For High Strength Low Alloy A572-50 Steel, Add	5.69	
			For High Strength Low Alloy A588 Steel, Add	12.65	
			For Each Additional Top Copes >2, Add	0.43	
			For Structural Tees, WT, MT Or ST, Deduct	-19.16	
			For Skewed Or Sloped Connections, Add	7.59	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0364	LF	W10 x 33 A992/A36 Structural Beam Or Girder	57.53	18.27
		For High Strength Low Alloy A572-50 Steel, Add	5.18	
		For High Strength Low Alloy A588 Steel, Add	11.51	
		For Each Additional Top Copes >2, Add	0.38	
		For Structural Tees, WT, MT Or ST, Deduct	-17.21	
		For Skewed Or Sloped Connections, Add	6.90	
05 12 23 00-0365	LF	W10 x 30 A992/A36 Structural Beam Or Girder	54.63	18.17
		For High Strength Low Alloy A572-50 Steel, Add	4.92	
		For High Strength Low Alloy A588 Steel, Add	10.93	
		For Each Additional Top Copes >2, Add	0.35	
		For Structural Tees, WT, MT Or ST, Deduct	-16.21	
		For Skewed Or Sloped Connections, Add	6.56	
05 12 23 00-0366	LF	W10 x 26 A992/A36 Structural Beam Or Girder	50.91	18.08
		For High Strength Low Alloy A572-50 Steel, Add	4.58	
		For High Strength Low Alloy A588 Steel, Add	10.18	
		For Each Additional Top Copes >2, Add	0.32	
		For Structural Tees, WT, MT Or ST, Deduct	-14.94	
		For Skewed Or Sloped Connections, Add	6.11	
05 12 23 00-0367	LF	W10 x 22 A992/A36 Structural Beam Or Girder	46.98	17.79
		For High Strength Low Alloy A572-50 Steel, Add	4.23	
		For High Strength Low Alloy A588 Steel, Add	9.40	
		For Each Additional Top Copes >2, Add	0.28	
		For Structural Tees, WT, MT Or ST, Deduct	-13.60	
		For Skewed Or Sloped Connections, Add	5.64	
05 12 23 00-0368	LF	W10 x 19 A992/A36 Structural Beam Or Girder	44.19	17.69
		For High Strength Low Alloy A572-50 Steel, Add	3.98	
		For High Strength Low Alloy A588 Steel, Add	8.84	
		For Each Additional Top Copes >2, Add	0.25	
		For Structural Tees, WT, MT Or ST, Deduct	-12.64	
		For Skewed Or Sloped Connections, Add	5.30	
05 12 23 00-0369	LF	W10 x 17 A992/A36 Structural Beam Or Girder	42.22	17.60
		For High Strength Low Alloy A572-50 Steel, Add	3.80	
		For High Strength Low Alloy A588 Steel, Add	8.44	
		For Each Additional Top Copes >2, Add	0.23	
		For Structural Tees, WT, MT Or ST, Deduct	-11.97	
		For Skewed Or Sloped Connections, Add	5.07	
05 12 23 00-0370	LF	W10 x 15 A992/A36 Structural Beam Or Girder	40.37	17.40
		For High Strength Low Alloy A572-50 Steel, Add	3.63	
		For High Strength Low Alloy A588 Steel, Add	8.07	
		For Each Additional Top Copes >2, Add	0.22	
		For Structural Tees, WT, MT Or ST, Deduct	-11.33	
		For Skewed Or Sloped Connections, Add	4.84	
05 12 23 00-0371	LF	W10 x 12 A992/A36 Structural Beam Or Girder	37.57	17.40
		For High Strength Low Alloy A572-50 Steel, Add	3.38	
		For High Strength Low Alloy A588 Steel, Add	7.51	
		For Each Additional Top Copes >2, Add	0.19	
		For Structural Tees, WT, MT Or ST, Deduct	-10.37	
		For Skewed Or Sloped Connections, Add	4.51	
05 12 23 00-0372	LF	W8 x 35 A992/A36 Structural Beam Or Girder	59.40	18.45
		For High Strength Low Alloy A572-50 Steel, Add	5.35	
		For High Strength Low Alloy A588 Steel, Add	11.88	
		For Each Additional Top Copes >2, Add	0.40	
		For Structural Tees, WT, MT Or ST, Deduct	-17.85	
		For Skewed Or Sloped Connections, Add	7.13	
05 12 23 00-0373	LF	W8 x 31 A992/A36 Structural Beam Or Girder	55.57	18.17
		For High Strength Low Alloy A572-50 Steel, Add	5.00	
		For High Strength Low Alloy A588 Steel, Add	11.11	
		For Each Additional Top Copes >2, Add	0.36	
		For Structural Tees, WT, MT Or ST, Deduct	-16.54	
		For Skewed Or Sloped Connections, Add	6.67	
05 12 23 00-0374	LF	W8 x 28 A992/A36 Structural Beam Or Girder	51.72	17.12
		For High Strength Low Alloy A572-50 Steel, Add	4.65	
		For High Strength Low Alloy A588 Steel, Add	10.34	
		For Each Additional Top Copes >2, Add	0.33	
		For Structural Tees, WT, MT Or ST, Deduct	-15.36	
		For Skewed Or Sloped Connections, Add	6.21	
05 12 23 00-0375	LF	W8 x 24 A992/A36 Structural Beam Or Girder	47.26	16.07
		For High Strength Low Alloy A572-50 Steel, Add	4.25	
		For High Strength Low Alloy A588 Steel, Add	9.45	
		For Each Additional Top Copes >2, Add	0.30	
		For Structural Tees, WT, MT Or ST, Deduct	-13.97	
		For Skewed Or Sloped Connections, Add	5.67	
05 12 23 00-0376	LF	W8 x 21 A992/A36 Structural Beam Or Girder	43.99	14.91
		For High Strength Low Alloy A572-50 Steel, Add	3.96	
		For High Strength Low Alloy A588 Steel, Add	8.80	
		For Each Additional Top Copes >2, Add	0.28	
		For Structural Tees, WT, MT Or ST, Deduct	-13.00	
		For Skewed Or Sloped Connections, Add	5.28	
05 12 23 00-0377	LF	W8 x 18 A992/A36 Structural Beam Or Girder	38.67	13.86
		For High Strength Low Alloy A572-50 Steel, Add	3.48	
		For High Strength Low Alloy A588 Steel, Add	7.73	
		For Each Additional Top Copes >2, Add	0.24	
		For Structural Tees, WT, MT Or ST, Deduct	-11.31	
		For Skewed Or Sloped Connections, Add	4.64	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0378 LF W8 x 10 A992/A36 Structural Beam Or Girder	23.26	9.95
For High Strength Low Alloy A572-50 Steel, Add	2.09	
For High Strength Low Alloy A588 Steel, Add	4.65	
For Each Additional Top Copes >2, Add	0.13	
For Structural Tees, WT, MT Or ST, Deduct	-6.56	
For Skewed Or Sloped Connections, Add	2.79	
05 12 23 00-0379 LF W6 x 9 A992/A36 Structural Beam Or Girder	21.18	8.13
For High Strength Low Alloy A572-50 Steel, Add	1.91	
For High Strength Low Alloy A588 Steel, Add	4.24	
For Each Additional Top Copes >2, Add	0.13	
For Structural Tees, WT, MT Or ST, Deduct	-6.12	
For Skewed Or Sloped Connections, Add	2.54	
05 12 23 00-0380 A992/A36 Structural Steel, M Shapes (05 12 23 00-0162)		
Note: Includes material delivery and erection.		
05 12 23 00-0381 LF M14 x 18 A992/A36 Structural Steel	43.59	13.76
For High Strength Low Alloy A572-50 Steel, Add	3.92	
For High Strength Low Alloy A588 Grade B Steel, Add	8.72	
05 12 23 00-0382 LF M12 x 11.8 A992/A36 Structural Steel	31.93	12.17
For High Strength Low Alloy A572-50 Steel, Add	2.87	
For High Strength Low Alloy A588 Grade B Steel, Add	6.39	
05 12 23 00-0383 LF M10 x 9 A992/A36 Structural Steel	24.86	9.76
For High Strength Low Alloy A572-50 Steel, Add	2.24	
For High Strength Low Alloy A588 Grade B Steel, Add	4.97	
05 12 23 00-0384 LF M8 x 6.5 A992/A36 Structural Steel	17.97	7.05
For High Strength Low Alloy A572-50 Steel, Add	1.62	
For High Strength Low Alloy A588 Grade B Steel, Add	3.59	
05 12 23 00-0385 LF M6 x 20 A992/A36 Structural Steel	48.40	15.39
For High Strength Low Alloy A572-50 Steel, Add	4.36	
For High Strength Low Alloy A588 Grade B Steel, Add	9.68	
05 12 23 00-0386 LF M6 x 4.4 A992/A36 Structural Steel	12.15	4.77
For High Strength Low Alloy A572-50 Steel, Add	1.09	
For High Strength Low Alloy A588 Grade B Steel, Add	2.43	
05 12 23 00-0387 LF M5 x 18.9 A992/A36 Structural Steel	46.76	15.39
For High Strength Low Alloy A572-50 Steel, Add	4.21	
For High Strength Low Alloy A588 Grade B Steel, Add	9.35	
05 12 23 00-0388 LF M4 x 13 A992/A36 Structural Steel	38.93	15.11
For High Strength Low Alloy A572-50 Steel, Add	3.50	
For High Strength Low Alloy A588 Grade B Steel, Add	7.79	
05 12 23 00-0389 A992/A36 Structural Steel, S Shapes (05 12 23 00-0162)		
Note: Includes material delivery and erection.		
05 12 23 00-0390 LF S24 x 121 A992/A36 Structural Steel	258.45	69.65
For High Strength Low Alloy A572-50 Steel, Add	23.26	
For High Strength Low Alloy A588 Grade B Steel, Add	51.69	
05 12 23 00-0391 LF S24 x 106 A992/A36 Structural Steel	229.85	64.23
For High Strength Low Alloy A572-50 Steel, Add	20.69	
For High Strength Low Alloy A588 Grade B Steel, Add	45.97	
05 12 23 00-0392 LF S24 x 100 A992/A36 Structural Steel	220.23	63.79
For High Strength Low Alloy A572-50 Steel, Add	19.82	
For High Strength Low Alloy A588 Grade B Steel, Add	44.05	
05 12 23 00-0393 LF S24 x 90 A992/A36 Structural Steel	201.43	60.43
For High Strength Low Alloy A572-50 Steel, Add	18.13	
For High Strength Low Alloy A588 Grade B Steel, Add	40.29	
05 12 23 00-0394 LF S24 x 80 A992/A36 Structural Steel	182.05	56.55
For High Strength Low Alloy A572-50 Steel, Add	16.38	
For High Strength Low Alloy A588 Grade B Steel, Add	36.41	
05 12 23 00-0395 LF S20 x 96 A992/A36 Structural Steel	211.42	61.24
For High Strength Low Alloy A572-50 Steel, Add	19.03	
For High Strength Low Alloy A588 Grade B Steel, Add	42.28	
05 12 23 00-0396 LF S20 x 86 A992/A36 Structural Steel	192.47	57.75
For High Strength Low Alloy A572-50 Steel, Add	17.32	
For High Strength Low Alloy A588 Grade B Steel, Add	38.49	
05 12 23 00-0397 LF S20 x 75 A992/A36 Structural Steel	170.68	53.01
For High Strength Low Alloy A572-50 Steel, Add	15.36	
For High Strength Low Alloy A588 Grade B Steel, Add	34.14	
05 12 23 00-0398 LF S20 x 66 A992/A36 Structural Steel	152.82	49.11
For High Strength Low Alloy A572-50 Steel, Add	13.75	
For High Strength Low Alloy A588 Grade B Steel, Add	30.56	
05 12 23 00-0399 LF S18 x 70 A992/A36 Structural Steel	162.09	52.08
For High Strength Low Alloy A572-50 Steel, Add	14.59	
For High Strength Low Alloy A588 Grade B Steel, Add	32.42	
05 12 23 00-0400 LF S18 x 54.7 A992/A36 Structural Steel	128.94	42.84
For High Strength Low Alloy A572-50 Steel, Add	11.60	
For High Strength Low Alloy A588 Grade B Steel, Add	25.79	
05 12 23 00-0401 LF S15 x 50 A992/A36 Structural Steel	120.05	41.22
For High Strength Low Alloy A572-50 Steel, Add	10.80	
For High Strength Low Alloy A588 Grade B Steel, Add	24.01	
05 12 23 00-0402 LF S15 x 42.9 A992/A36 Structural Steel	104.99	37.23
For High Strength Low Alloy A572-50 Steel, Add	9.45	
For High Strength Low Alloy A588 Grade B Steel, Add	21.00	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0403 LF S12 x 50 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	117.86 10.61 23.57	39.16
05 12 23 00-0404 LF S12 x 40.8 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	97.96 8.82 19.59	33.64
05 12 23 00-0405 LF S12 x 35 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	85.66 7.71 17.13	30.37
05 12 23 00-0406 LF S12 x 31.8 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	79.38 7.14 15.88	29.05
05 12 23 00-0407 LF S10 x 35 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	87.36 7.86 17.47	31.97
05 12 23 00-0408 LF S10 x 25.4 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	64.70 5.82 12.94	24.42
05 12 23 00-0409 LF S8 x 23 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	58.59 5.27 11.72	22.11
05 12 23 00-0410 LF S8 x 18.4 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	47.86 4.31 9.57	18.63
05 12 23 00-0411 LF S7 x 20 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	52.02 4.68 10.40	20.25
05 12 23 00-0412 LF S7 x 15.3 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	40.67 3.66 8.13	16.30
05 12 23 00-0413 LF S6 x 17.25 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	43.49 3.91 8.70	16.15
05 12 23 00-0414 LF S6 x 12.5 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	37.52 3.38 7.50	14.91
05 12 23 00-0415 LF S5 x 14.75 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	39.77 3.58 7.95	15.21
05 12 23 00-0416 LF S5 x 10 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	34.19 3.08 6.84	14.82
05 12 23 00-0417 LF S4 x 9.5 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	33.34 3.00 6.67	14.82
05 12 23 00-0418 LF S4 x 7.7 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	31.36 2.82 6.27	14.82
05 12 23 00-0419 LF S3 x 7.5 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	31.18 2.81 6.24	14.82
05 12 23 00-0420 LF S3 x 5.7 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	28.81 2.59 5.76	14.73
05 12 23 00-0421 A992/A36 Structural Steel, HP Shapes (05 12 23 00-0162) Note: Includes material delivery and erection.		
05 12 23 00-0422 LF HP14 x 117 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	152.82 13.75 30.56	20.64
05 12 23 00-0423 LF HP14 x 102 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	134.05 12.06 26.81	19.20
05 12 23 00-0424 LF HP14 x 89 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	119.69 10.77 23.94	18.01
05 12 23 00-0425 LF HP14 x 73 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	99.68 8.97 19.94	16.98
05 12 23 00-0426 LF HP13 x 100 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	131.42 11.83 26.28	18.83
05 12 23 00-0427 LF HP13 x 87 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	117.01 10.53 23.40	17.61
05 12 23 00-0428 LF HP13 x 73 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	99.68 8.97 19.94	16.98
05 12 23 00-0429 LF HP13 x 60 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	84.99 7.65 17.00	16.27
05 12 23 00-0430 LF HP12 x 84 A992/A36 Structural Steel For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	110.93 9.98 22.19	18.57

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0431	LF		HP12 x 74 A992/A36 Structural Steel.....	98.33	17.51
			For High Strength Low Alloy A572-50 Steel, Add	8.85	
			For High Strength Low Alloy A588 Grade B Steel, Add	19.67	
05 12 23 00-0432	LF		HP12 x 63 A992/A36 Structural Steel.....	84.95	16.11
			For High Strength Low Alloy A572-50 Steel, Add	7.65	
			For High Strength Low Alloy A588 Grade B Steel, Add	16.99	
05 12 23 00-0433	LF		HP12 x 53 A992/A36 Structural Steel.....	78.04	15.32
			For High Strength Low Alloy A572-50 Steel, Add	7.02	
			For High Strength Low Alloy A588 Grade B Steel, Add	15.61	
05 12 23 00-0434	LF		HP10 x 57 A992/A36 Structural Steel.....	82.09	15.72
			For High Strength Low Alloy A572-50 Steel, Add	7.39	
			For High Strength Low Alloy A588 Grade B Steel, Add	16.42	
05 12 23 00-0435	LF		HP10 x 42 A992/A36 Structural Steel.....	68.17	14.73
			For High Strength Low Alloy A572-50 Steel, Add	6.14	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.63	
05 12 23 00-0436	LF		HP8 x 36 A992/A36 Structural Steel.....	59.58	13.89
			For High Strength Low Alloy A572-50 Steel, Add	5.36	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.92	
05 12 23 00-0437			Lightweight Framing Steel Shapes (05 12 23)		
05 12 23 00-0438			Angle Iron - L (05 12 23 00-0437)		
05 12 23 00-0439			1/8" Thick (05 12 23 00-0438)		
05 12 23 00-0440	LF		1/2" x 1/2" x 1/8" Angle Iron.....	2.15	1.41
			For >100 To 250, Deduct	-0.14	
			For >250 To 500, Deduct	-0.19	
			For >500 To 1,000, Deduct	-0.30	
			For >1,000, Deduct	-0.40	
			For Galvanized Steel, Add	0.17	
			For 304 Stainless Steel, Add	0.77	
			For High Strength Steel (HSS), Add	0.43	
05 12 23 00-0441	LF		3/4" x 1/2" x 1/8" Angle Iron.....	2.47	1.60
			For >100 To 250, Deduct	-0.16	
			For >250 To 500, Deduct	-0.22	
			For >500 To 1,000, Deduct	-0.34	
			For >1,000, Deduct	-0.45	
			For Galvanized Steel, Add	0.21	
			For 304 Stainless Steel, Add	0.97	
			For High Strength Steel (HSS), Add	0.49	
05 12 23 00-0442	LF		3/4" x 3/4" x 1/8" Angle Iron.....	2.76	1.76
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.37	
			For >1,000, Deduct	-0.50	
			For Galvanized Steel, Add	0.26	
			For 304 Stainless Steel, Add	1.20	
			For High Strength Steel (HSS), Add	0.55	
05 12 23 00-0443	LF		1" x 3/4" x 1/8" Angle Iron.....	3.11	1.96
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.27	
			For >500 To 1,000, Deduct	-0.42	
			For >1,000, Deduct	-0.56	
			For Galvanized Steel, Add	0.30	
			For 304 Stainless Steel, Add	1.40	
			For High Strength Steel (HSS), Add	0.62	
05 12 23 00-0444	LF		1" x 1" x 1/8" Angle Iron.....	3.39	2.11
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.30	
			For >500 To 1,000, Deduct	-0.45	
			For >1,000, Deduct	-0.61	
			For Galvanized Steel, Add	0.35	
			For 304 Stainless Steel, Add	1.62	
			For High Strength Steel (HSS), Add	0.68	
05 12 23 00-0445	LF		1-1/4" x 1-1/4" x 1/8" Angle Iron.....	4.04	2.49
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.35	
			For >500 To 1,000, Deduct	-0.53	
			For >1,000, Deduct	-0.72	
			For Galvanized Steel, Add	0.45	
			For 304 Stainless Steel, Add	2.05	
			For High Strength Steel (HSS), Add	0.81	
05 12 23 00-0446	LF		1-1/2" x 1" x 1/8" Angle Iron.....	4.04	2.49
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.35	
			For >500 To 1,000, Deduct	-0.53	
			For >1,000, Deduct	-0.72	
			For Galvanized Steel, Add	0.45	
			For 304 Stainless Steel, Add	2.05	
			For High Strength Steel (HSS), Add	0.81	



	Metals	05	
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0447 LF 1-1/2" x 1-1/2" x 1/8" Angle Iron.....	4.84	2.98
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.64	
For >1,000, Deduct	-0.86	
For Galvanized Steel, Add	0.54	
For 304 Stainless Steel, Add	2.48	
For High Strength Steel (HSS), Add	0.97	
05 12 23 00-0448 LF 2" x 2" x 1/8" Angle Iron.....	6.58	4.05
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.87	
For >1,000, Deduct	-1.17	
For Galvanized Steel, Add	0.73	
For 304 Stainless Steel, Add	3.36	
For High Strength Steel (HSS), Add	1.32	
05 12 23 00-0449 3/16" Thick (05 12 23 00-0438)		
05 12 23 00-0450 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron.....	4.56	2.63
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.58	
For >1,000, Deduct	-0.78	
For Galvanized Steel, Add	0.65	
For 304 Stainless Steel, Add	2.99	
For High Strength Steel (HSS), Add	0.91	
05 12 23 00-0451 LF 1-1/2" x 1" x 3/16" Angle Iron.....	4.56	2.63
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-0.58	
For >1,000, Deduct	-0.78	
For Galvanized Steel, Add	0.65	
For 304 Stainless Steel, Add	2.99	
For High Strength Steel (HSS), Add	0.91	
05 12 23 00-0452 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron.....	5.04	2.82
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.63	
For >1,000, Deduct	-0.85	
For Galvanized Steel, Add	0.79	
For 304 Stainless Steel, Add	3.65	
For High Strength Steel (HSS), Add	1.01	
05 12 23 00-0453 LF 2" x 2" x 3/16" Angle Iron.....	5.76	3.02
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.69	
For >1,000, Deduct	-0.93	
For Galvanized Steel, Add	1.08	
For 304 Stainless Steel, Add	4.96	
For High Strength Steel (HSS), Add	1.15	
05 12 23 00-0454 LF 2-1/2" x 2" x 3/16" Angle Iron.....	6.28	3.24
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.75	
For >1,000, Deduct	-1.01	
For Galvanized Steel, Add	1.22	
For 304 Stainless Steel, Add	5.59	
For High Strength Steel (HSS), Add	1.26	
05 12 23 00-0455 LF 2-1/2" x 2-1/2" x 3/16" Angle Iron.....	6.82	3.47
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-0.80	
For >1,000, Deduct	-1.09	
For Galvanized Steel, Add	1.36	
For 304 Stainless Steel, Add	6.27	
For High Strength Steel (HSS), Add	1.36	
05 12 23 00-0456 LF 3" x 2" x 3/16" Angle Iron.....	6.81	3.47
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-0.80	
For >1,000, Deduct	-1.09	
For Galvanized Steel, Add	1.36	
For 304 Stainless Steel, Add	6.24	
For High Strength Steel (HSS), Add	1.36	
05 12 23 00-0457 LF 3" x 2-1/2" x 3/16" Angle Iron.....	7.52	3.83
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.20	
For Galvanized Steel, Add	1.50	
For 304 Stainless Steel, Add	6.90	
For High Strength Steel (HSS), Add	1.50	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0458	LF	3" x 3" x 3/16" Angle Iron	8.23	4.19
		For >100 To 250, Deduct	-0.42	
		For >250 To 500, Deduct	-0.62	
		For >500 To 1,000, Deduct	-0.97	
		For >1,000, Deduct	-1.31	
		For Galvanized Steel, Add	1.64	
		For 304 Stainless Steel, Add	7.55	
		For High Strength Steel (HSS), Add	1.65	
05 12 23 00-0459 1/4" Thick (05 12 23 00-0438)				
05 12 23 00-0460	LF	1-1/2" x 1" x 1/4" Angle Iron	5.06	2.78
		For >100 To 250, Deduct	-0.28	
		For >250 To 500, Deduct	-0.40	
		For >500 To 1,000, Deduct	-0.62	
		For >1,000, Deduct	-0.84	
		For Galvanized Steel, Add	0.84	
		For 304 Stainless Steel, Add	3.85	
		For High Strength Steel (HSS), Add	1.01	
05 12 23 00-0461	LF	1-1/2" x 1-1/2" x 1/4" Angle Iron	5.61	2.98
		For >100 To 250, Deduct	-0.30	
		For >250 To 500, Deduct	-0.44	
		For >500 To 1,000, Deduct	-0.68	
		For >1,000, Deduct	-0.92	
		For Galvanized Steel, Add	1.02	
		For 304 Stainless Steel, Add	4.70	
		For High Strength Steel (HSS), Add	1.12	
05 12 23 00-0462	LF	2" x 2" x 1/4" Angle Iron	6.50	3.17
		For >100 To 250, Deduct	-0.32	
		For >250 To 500, Deduct	-0.48	
		For >500 To 1,000, Deduct	-0.75	
		For >1,000, Deduct	-1.02	
		For Galvanized Steel, Add	1.41	
		For 304 Stainless Steel, Add	6.47	
		For High Strength Steel (HSS), Add	1.30	
05 12 23 00-0463	LF	2-1/2" x 2" x 1/4" Angle Iron	7.27	3.51
		For >100 To 250, Deduct	-0.35	
		For >250 To 500, Deduct	-0.53	
		For >500 To 1,000, Deduct	-0.83	
		For >1,000, Deduct	-1.13	
		For Galvanized Steel, Add	1.60	
		For 304 Stainless Steel, Add	7.35	
		For High Strength Steel (HSS), Add	1.45	
05 12 23 00-0464	LF	2-1/2" x 2-1/2" x 1/4" Angle Iron	8.05	3.85
		For >100 To 250, Deduct	-0.38	
		For >250 To 500, Deduct	-0.59	
		For >500 To 1,000, Deduct	-0.92	
		For >1,000, Deduct	-1.25	
		For Galvanized Steel, Add	1.81	
		For 304 Stainless Steel, Add	8.32	
		For High Strength Steel (HSS), Add	1.61	
05 12 23 00-0465	LF	3" x 2" x 1/4" Angle Iron	8.05	3.85
		For >100 To 250, Deduct	-0.38	
		For >250 To 500, Deduct	-0.59	
		For >500 To 1,000, Deduct	-0.92	
		For >1,000, Deduct	-1.25	
		For Galvanized Steel, Add	1.81	
		For 304 Stainless Steel, Add	8.32	
		For High Strength Steel (HSS), Add	1.61	
05 12 23 00-0466	LF	3" x 2-1/2" x 1/4" Angle Iron	8.91	4.28
		For >100 To 250, Deduct	-0.43	
		For >250 To 500, Deduct	-0.65	
		For >500 To 1,000, Deduct	-1.02	
		For >1,000, Deduct	-1.38	
		For Galvanized Steel, Add	1.99	
		For 304 Stainless Steel, Add	9.15	
		For High Strength Steel (HSS), Add	1.78	
05 12 23 00-0467	LF	3" x 3" x 1/4" Angle Iron	9.76	4.70
		For >100 To 250, Deduct	-0.47	
		For >250 To 500, Deduct	-0.71	
		For >500 To 1,000, Deduct	-1.12	
		For >1,000, Deduct	-1.52	
		For Galvanized Steel, Add	2.16	
		For 304 Stainless Steel, Add	9.95	
		For High Strength Steel (HSS), Add	1.95	
05 12 23 00-0468	LF	3-1/2" x 3" x 1/4" Angle Iron	10.57	5.05
		For >100 To 250, Deduct	-0.50	
		For >250 To 500, Deduct	-0.77	
		For >500 To 1,000, Deduct	-1.20	
		For >1,000, Deduct	-1.63	
		For Galvanized Steel, Add	2.38	
		For 304 Stainless Steel, Add	10.94	
		For High Strength Steel (HSS), Add	2.11	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0469	LF	3-1/2" x 3-1/2" x 1/4" Angle Iron	.....	11.17	0.52
		For >100 To 250, Deduct	.....	-0.53	
		For >250 To 500, Deduct	.....	-0.81	
		For >500 To 1,000, Deduct	.....	-1.26	
		For >1,000, Deduct	.....	-1.72	
		For Galvanized Steel, Add	.....	2.57	
		For 304 Stainless Steel, Add	.....	11.80	
		For High Strength Steel (HSS), Add	.....	2.23	
05 12 23 00-0470	LF	4" x 3" x 1/4" Angle Iron	.....	11.17	5.27
		For >100 To 250, Deduct	.....	-0.53	
		For >250 To 500, Deduct	.....	-0.81	
		For >500 To 1,000, Deduct	.....	-1.26	
		For >1,000, Deduct	.....	-1.72	
		For Galvanized Steel, Add	.....	2.57	
		For 304 Stainless Steel, Add	.....	11.80	
		For High Strength Steel (HSS), Add	.....	2.23	
05 12 23 00-0471	LF	4" x 3-1/2" x 1/4" Angle Iron	.....	11.74	5.49
		For >100 To 250, Deduct	.....	-0.55	
		For >250 To 500, Deduct	.....	-0.84	
		For >500 To 1,000, Deduct	.....	-1.32	
		For >1,000, Deduct	.....	-1.80	
		For Galvanized Steel, Add	.....	2.73	
		For 304 Stainless Steel, Add	.....	12.57	
		For High Strength Steel (HSS), Add	.....	2.35	
05 12 23 00-0472	LF	4" x 4" x 1/4" Angle Iron	.....	12.35	5.74
		For >100 To 250, Deduct	.....	-0.57	
		For >250 To 500, Deduct	.....	-0.88	
		For >500 To 1,000, Deduct	.....	-1.38	
		For >1,000, Deduct	.....	-1.88	
		For Galvanized Steel, Add	.....	2.92	
		For 304 Stainless Steel, Add	.....	13.42	
		For High Strength Steel (HSS), Add	.....	2.47	
05 12 23 00-0473	LF	5" x 3" x 1/4" Angle Iron	.....	12.35	5.74
		For >100 To 250, Deduct	.....	-0.57	
		For >250 To 500, Deduct	.....	-0.88	
		For >500 To 1,000, Deduct	.....	-1.38	
		For >1,000, Deduct	.....	-1.88	
		For Galvanized Steel, Add	.....	2.92	
		For 304 Stainless Steel, Add	.....	13.42	
		For High Strength Steel (HSS), Add	.....	2.47	
05 12 23 00-0474	LF	5" x 3-1/2" x 1/4" Angle Iron	.....	13.03	6.04
		For >100 To 250, Deduct	.....	-0.60	
		For >250 To 500, Deduct	.....	-0.93	
		For >500 To 1,000, Deduct	.....	-1.46	
		For >1,000, Deduct	.....	-1.98	
		For Galvanized Steel, Add	.....	3.09	
		For 304 Stainless Steel, Add	.....	14.19	
		For High Strength Steel (HSS), Add	.....	2.61	
05 12 23 00-0475		5/16" Thick	(05 12 23 00-0438)		
05 12 23 00-0476	LF	2-1/2" x 2" x 5/16" Angle Iron	.....	8.65	4.09
		For >100 To 250, Deduct	.....	-0.41	
		For >250 To 500, Deduct	.....	-0.62	
		For >500 To 1,000, Deduct	.....	-0.98	
		For >1,000, Deduct	.....	-1.33	
		For Galvanized Steel, Add	.....	1.99	
		For 304 Stainless Steel, Add	.....	9.15	
		For High Strength Steel (HSS), Add	.....	1.73	
05 12 23 00-0477	LF	2-1/2" x 2-1/2" x 5/16" Angle Iron	.....	9.35	4.33
		For >100 To 250, Deduct	.....	-0.43	
		For >250 To 500, Deduct	.....	-0.67	
		For >500 To 1,000, Deduct	.....	-1.05	
		For >1,000, Deduct	.....	-1.42	
		For Galvanized Steel, Add	.....	2.21	
		For 304 Stainless Steel, Add	.....	10.17	
		For High Strength Steel (HSS), Add	.....	1.87	
05 12 23 00-0478	LF	3" x 2" x 5/16" Angle Iron	.....	9.35	4.33
		For >100 To 250, Deduct	.....	-0.43	
		For >250 To 500, Deduct	.....	-0.67	
		For >500 To 1,000, Deduct	.....	-1.05	
		For >1,000, Deduct	.....	-1.42	
		For Galvanized Steel, Add	.....	2.21	
		For 304 Stainless Steel, Add	.....	10.17	
		For High Strength Steel (HSS), Add	.....	1.87	
05 12 23 00-0479	LF	3" x 2-1/2" x 5/16" Angle Iron	.....	10.33	4.75
		For >100 To 250, Deduct	.....	-0.47	
		For >250 To 500, Deduct	.....	-0.73	
		For >500 To 1,000, Deduct	.....	-1.15	
		For >1,000, Deduct	.....	-1.57	
		For Galvanized Steel, Add	.....	2.48	
		For 304 Stainless Steel, Add	.....	11.40	
		For High Strength Steel (HSS), Add	.....	2.07	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0480 LF 3" x 3" x 5/16" Angle Iron	11.23	5.16
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.25	
For >1,000, Deduct	-1.70	
For Galvanized Steel, Add	2.70	
For 304 Stainless Steel, Add	12.40	
For High Strength Steel (HSS), Add	2.25	
05 12 23 00-0481 LF 3-1/2" x 3" x 5/16" Angle Iron	11.93	5.42
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-0.84	
For >500 To 1,000, Deduct	-1.32	
For >1,000, Deduct	-1.80	
For Galvanized Steel, Add	2.92	
For 304 Stainless Steel, Add	13.42	
For High Strength Steel (HSS), Add	2.39	
05 12 23 00-0482 LF 3-1/2" x 3-1/2" x 5/16" Angle Iron	12.71	5.69
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.90	
For Galvanized Steel, Add	3.17	
For 304 Stainless Steel, Add	14.59	
For High Strength Steel (HSS), Add	2.54	
05 12 23 00-0483 LF 4" x 3" x 5/16" Angle Iron	12.71	5.69
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.90	
For Galvanized Steel, Add	3.17	
For 304 Stainless Steel, Add	14.59	
For High Strength Steel (HSS), Add	2.54	
05 12 23 00-0484 LF 4" x 3-1/2" x 5/16" Angle Iron	13.50	6.02
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.48	
For >1,000, Deduct	-2.02	
For Galvanized Steel, Add	3.40	
For 304 Stainless Steel, Add	15.62	
For High Strength Steel (HSS), Add	2.70	
05 12 23 00-0485 LF 4" x 4" x 5/16" Angle Iron	14.22	6.28
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-0.98	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.11	
For Galvanized Steel, Add	3.63	
For 304 Stainless Steel, Add	16.67	
For High Strength Steel (HSS), Add	2.84	
05 12 23 00-0486 LF 5" x 3" x 5/16" Angle Iron	14.22	6.28
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-0.98	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.11	
For Galvanized Steel, Add	3.63	
For 304 Stainless Steel, Add	16.67	
For High Strength Steel (HSS), Add	2.84	
05 12 23 00-0487 LF 5" x 3-1/2" x 5/16" Angle Iron	14.91	6.54
For >100 To 250, Deduct	-0.65	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.62	
For >1,000, Deduct	-2.21	
For Galvanized Steel, Add	3.84	
For 304 Stainless Steel, Add	17.64	
For High Strength Steel (HSS), Add	2.98	
05 12 23 00-0488 LF 5" x 5" x 5/16" Angle Iron	16.45	6.82
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.09	
For >500 To 1,000, Deduct	-1.73	
For >1,000, Deduct	-2.37	
For Galvanized Steel, Add	4.56	
For 304 Stainless Steel, Add	20.95	
For High Strength Steel (HSS), Add	3.29	
05 12 23 00-0489 LF 6" x 3-1/2" x 5/16" Angle Iron	16.45	7.10
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.77	
For >1,000, Deduct	-2.42	
For Galvanized Steel, Add	4.32	
For 304 Stainless Steel, Add	19.86	
For High Strength Steel (HSS), Add	3.29	

05 12 23 00-0490 3/8" Thick (05 12 23 00-0438)



	Metals	05	
	Structural Metal Framing	05 10	05
	Structural Steel Framing	05 12	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0491	LF	3" x 2" x 3/8" Angle Iron	10.24	4.53
		For >100 To 250, Deduct	-0.45	
		For >250 To 500, Deduct	-0.71	
		For >500 To 1,000, Deduct	-1.12	
		For >1,000, Deduct	-1.52	
		For Galvanized Steel, Add	2.60	
		For 304 Stainless Steel, Add	11.97	
		For High Strength Steel (HSS), Add	2.05	
05 12 23 00-0492	LF	3" x 2-1/2" x 3/8" Angle Iron	11.25	4.91
		For >100 To 250, Deduct	-0.49	
		For >250 To 500, Deduct	-0.77	
		For >500 To 1,000, Deduct	-1.22	
		For >1,000, Deduct	-1.66	
		For Galvanized Steel, Add	2.92	
		For 304 Stainless Steel, Add	13.42	
		For High Strength Steel (HSS), Add	2.25	
05 12 23 00-0493	LF	3" x 3" x 3/8" Angle Iron	12.16	5.28
		For >100 To 250, Deduct	-0.53	
		For >250 To 500, Deduct	-0.83	
		For >500 To 1,000, Deduct	-1.31	
		For >1,000, Deduct	-1.79	
		For Galvanized Steel, Add	3.17	
		For 304 Stainless Steel, Add	14.59	
		For High Strength Steel (HSS), Add	2.43	
05 12 23 00-0494	LF	3-1/2" x 3" x 3/8" Angle Iron	12.88	5.43
		For >100 To 250, Deduct	-0.54	
		For >250 To 500, Deduct	-0.87	
		For >500 To 1,000, Deduct	-1.37	
		For >1,000, Deduct	-1.87	
		For Galvanized Steel, Add	3.50	
		For 304 Stainless Steel, Add	16.07	
		For High Strength Steel (HSS), Add	2.58	
05 12 23 00-0495	LF	3-1/2" x 3-1/2" x 3/8" Angle Iron	13.69	5.73
		For >100 To 250, Deduct	-0.57	
		For >250 To 500, Deduct	-0.92	
		For >500 To 1,000, Deduct	-1.45	
		For >1,000, Deduct	-1.98	
		For Galvanized Steel, Add	3.75	
		For 304 Stainless Steel, Add	17.24	
		For High Strength Steel (HSS), Add	2.74	
05 12 23 00-0496	LF	4" x 3" x 3/8" Angle Iron	13.69	5.73
		For >100 To 250, Deduct	-0.57	
		For >250 To 500, Deduct	-0.92	
		For >500 To 1,000, Deduct	-1.45	
		For >1,000, Deduct	-1.98	
		For Galvanized Steel, Add	3.75	
		For 304 Stainless Steel, Add	17.24	
		For High Strength Steel (HSS), Add	2.74	
05 12 23 00-0497	LF	4" x 3-1/2" x 3/8" Angle Iron	14.80	6.24
		For >100 To 250, Deduct	-0.62	
		For >250 To 500, Deduct	-0.99	
		For >500 To 1,000, Deduct	-1.57	
		For >1,000, Deduct	-2.15	
		For Galvanized Steel, Add	4.02	
		For 304 Stainless Steel, Add	18.47	
		For High Strength Steel (HSS), Add	2.96	
05 12 23 00-0498	LF	4" x 4" x 3/8" Angle Iron	15.53	6.42
		For >100 To 250, Deduct	-0.64	
		For >250 To 500, Deduct	-1.03	
		For >500 To 1,000, Deduct	-1.63	
		For >1,000, Deduct	-2.23	
		For Galvanized Steel, Add	4.32	
		For 304 Stainless Steel, Add	19.86	
		For High Strength Steel (HSS), Add	3.11	
05 12 23 00-0499	LF	5" x 3" x 3/8" Angle Iron	15.88	6.68
		For >100 To 250, Deduct	-0.67	
		For >250 To 500, Deduct	-1.07	
		For >500 To 1,000, Deduct	-1.69	
		For >1,000, Deduct	-2.30	
		For Galvanized Steel, Add	4.32	
		For 304 Stainless Steel, Add	19.86	
		For High Strength Steel (HSS), Add	3.18	
05 12 23 00-0500	LF	5" x 3-1/2" x 3/8" Angle Iron	17.00	7.19
		For >100 To 250, Deduct	-0.72	
		For >250 To 500, Deduct	-1.15	
		For >500 To 1,000, Deduct	-1.81	
		For >1,000, Deduct	-2.48	
		For Galvanized Steel, Add	4.59	
		For 304 Stainless Steel, Add	21.09	
		For High Strength Steel (HSS), Add	3.40	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0501	LF		5" x 5" x 3/8" Angle Iron	19.96	8.38
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.34	
			For >500 To 1,000, Deduct	-2.12	
			For >1,000, Deduct	-2.89	
			For Galvanized Steel, Add	5.44	
			For 304 Stainless Steel, Add	25.02	
			For High Strength Steel (HSS), Add	3.99	
05 12 23 00-0502	LF		6" x 3-1/2" x 3/8" Angle Iron	18.72	7.80
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.25	
			For >500 To 1,000, Deduct	-1.98	
			For >1,000, Deduct	-2.70	
			For Galvanized Steel, Add	5.16	
			For 304 Stainless Steel, Add	23.74	
			For High Strength Steel (HSS), Add	3.74	
05 12 23 00-0503	LF		6" x 4" x 3/8" Angle Iron	19.96	8.38
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.34	
			For >500 To 1,000, Deduct	-2.12	
			For >1,000, Deduct	-2.89	
			For Galvanized Steel, Add	5.44	
			For 304 Stainless Steel, Add	25.02	
			For High Strength Steel (HSS), Add	3.99	
05 12 23 00-0504	LF		6" x 6" x 3/8" Angle Iron	24.04	10.06
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.61	
			For >500 To 1,000, Deduct	-2.54	
			For >1,000, Deduct	-3.48	
			For Galvanized Steel, Add	6.59	
			For 304 Stainless Steel, Add	30.30	
			For High Strength Steel (HSS), Add	4.81	
05 12 23 00-0505	LF		7" x 4" x 3/8" Angle Iron	22.01	9.23
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.47	
			For >500 To 1,000, Deduct	-2.33	
			For >1,000, Deduct	-3.19	
			For Galvanized Steel, Add	6.01	
			For 304 Stainless Steel, Add	27.65	
			For High Strength Steel (HSS), Add	4.40	
05 12 23 00-0506			1/2" Thick (05 12 23 00-0438)		
05 12 23 00-0507	LF		3" x 3" x 1/2" Angle Iron	13.91	5.40
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.42	
			For >1,000, Deduct	-1.94	
			For Galvanized Steel, Add	4.16	
			For 304 Stainless Steel, Add	19.12	
			For High Strength Steel (HSS), Add	2.78	
05 12 23 00-0508	LF		4" x 3" x 1/2" Angle Iron	16.42	6.38
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.05	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.29	
			For Galvanized Steel, Add	4.91	
			For 304 Stainless Steel, Add	22.57	
			For High Strength Steel (HSS), Add	3.28	
05 12 23 00-0509	LF		4" x 3-1/2" x 1/2" Angle Iron	17.61	6.83
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.12	
			For >500 To 1,000, Deduct	-1.79	
			For >1,000, Deduct	-2.46	
			For Galvanized Steel, Add	5.26	
			For 304 Stainless Steel, Add	24.20	
			For High Strength Steel (HSS), Add	3.52	
05 12 23 00-0510	LF		4" x 4" x 1/2" Angle Iron	18.93	7.36
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.93	
			For >1,000, Deduct	-2.64	
			For Galvanized Steel, Add	5.66	
			For 304 Stainless Steel, Add	26.02	
			For High Strength Steel (HSS), Add	3.79	
05 12 23 00-0511	LF		5" x 3" x 1/2" Angle Iron	18.93	7.36
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.93	
			For >1,000, Deduct	-2.64	
			For Galvanized Steel, Add	5.66	
			For 304 Stainless Steel, Add	26.02	
			For High Strength Steel (HSS), Add	3.79	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0512	LF	5" x 3-1/2" x 1/2" Angle Iron.....		20.11	7.81
		For >100 To 250, Deduct		-0.78	
		For >250 To 500, Deduct		-1.28	
		For >500 To 1,000, Deduct		-2.05	
		For >1,000, Deduct		-2.81	
		For Galvanized Steel, Add		6.01	
		For 304 Stainless Steel, Add		27.65	
		For High Strength Steel (HSS), Add		4.02	
05 12 23 00-0513	LF	5" x 5" x 1/2" Angle Iron.....		23.97	9.31
		For >100 To 250, Deduct		-0.93	
		For >250 To 500, Deduct		-1.53	
		For >500 To 1,000, Deduct		-2.44	
		For >1,000, Deduct		-3.35	
		For Galvanized Steel, Add		7.17	
		For 304 Stainless Steel, Add		32.95	
		For High Strength Steel (HSS), Add		4.79	
05 12 23 00-0514	LF	6" x 4" x 1/2" Angle Iron.....		23.97	9.31
		For >100 To 250, Deduct		-0.93	
		For >250 To 500, Deduct		-1.53	
		For >500 To 1,000, Deduct		-2.44	
		For >1,000, Deduct		-3.35	
		For Galvanized Steel, Add		7.17	
		For 304 Stainless Steel, Add		32.95	
		For High Strength Steel (HSS), Add		4.79	
05 12 23 00-0515	LF	6" x 6" x 1/2" Angle Iron.....		28.99	11.26
		For >100 To 250, Deduct		-1.13	
		For >250 To 500, Deduct		-1.85	
		For >500 To 1,000, Deduct		-2.95	
		For >1,000, Deduct		-4.05	
		For Galvanized Steel, Add		8.67	
		For 304 Stainless Steel, Add		39.84	
		For High Strength Steel (HSS), Add		5.80	
05 12 23 00-0516	LF	7" x 4" x 1/2" Angle Iron.....		26.48	10.28
		For >100 To 250, Deduct		-1.03	
		For >250 To 500, Deduct		-1.69	
		For >500 To 1,000, Deduct		-2.70	
		For >1,000, Deduct		-3.70	
		For Galvanized Steel, Add		7.92	
		For 304 Stainless Steel, Add		36.39	
		For High Strength Steel (HSS), Add		5.30	
05 12 23 00-0517	LF	8" x 4" x 1/2" Angle Iron.....		28.99	11.26
		For >100 To 250, Deduct		-1.13	
		For >250 To 500, Deduct		-1.85	
		For >500 To 1,000, Deduct		-2.95	
		For >1,000, Deduct		-4.05	
		For Galvanized Steel, Add		8.67	
		For 304 Stainless Steel, Add		39.84	
		For High Strength Steel (HSS), Add		5.80	
05 12 23 00-0518	LF	8" x 6" x 1/2" Angle Iron.....		34.03	13.22
		For >100 To 250, Deduct		-1.32	
		For >250 To 500, Deduct		-2.17	
		For >500 To 1,000, Deduct		-3.46	
		For >1,000, Deduct		-4.75	
		For Galvanized Steel, Add		10.17	
		For 304 Stainless Steel, Add		46.77	
		For High Strength Steel (HSS), Add		6.81	
05 12 23 00-0519	LF	8" x 8" x 1/2" Angle Iron.....		39.06	15.16
		For >100 To 250, Deduct		-1.52	
		For >250 To 500, Deduct		-2.49	
		For >500 To 1,000, Deduct		-3.98	
		For >1,000, Deduct		-5.46	
		For Galvanized Steel, Add		11.67	
		For 304 Stainless Steel, Add		53.67	
		For High Strength Steel (HSS), Add		7.81	
05 12 23 00-0520		5/8" Thick ^(05 12 23 00-0438)			
05 12 23 00-0521	LF	4" x 4" x 5/8" Angle Iron.....		22.44	8.43
		For >100 To 250, Deduct		-0.84	
		For >250 To 500, Deduct		-1.40	
		For >500 To 1,000, Deduct		-2.25	
		For >1,000, Deduct		-3.09	
		For Galvanized Steel, Add		6.94	
		For High Strength Steel (HSS), Add		4.49	
05 12 23 00-0522	LF	5" x 3-1/2" x 5/8" Angle Iron.....		24.01	9.02
		For >100 To 250, Deduct		-0.90	
		For >250 To 500, Deduct		-1.50	
		For >500 To 1,000, Deduct		-2.40	
		For >1,000, Deduct		-3.30	
		For Galvanized Steel, Add		7.43	
		For High Strength Steel (HSS), Add		4.80	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0523	LF		5" x 5" x 5/8" Angle Iron	28.59	10.74
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.79	
			For >500 To 1,000, Deduct	-2.86	
			For >1,000, Deduct	-3.93	
			For Galvanized Steel, Add	8.85	
			For High Strength Steel (HSS), Add	5.72	
05 12 23 00-0524	LF		6" x 4" x 5/8" Angle Iron	28.59	10.74
			For >100 To 250, Deduct	-1.07	
			For >250 To 500, Deduct	-1.79	
			For >500 To 1,000, Deduct	-2.86	
			For >1,000, Deduct	-3.93	
			For Galvanized Steel, Add	8.85	
			For High Strength Steel (HSS), Add	5.72	
05 12 23 00-0525	LF		6" x 6" x 5/8" Angle Iron	34.60	12.99
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-2.16	
			For >500 To 1,000, Deduct	-3.46	
			For >1,000, Deduct	-4.76	
			For Galvanized Steel, Add	10.71	
			For High Strength Steel (HSS), Add	6.92	
05 12 23 00-0526	LF		7" x 4" x 5/8" Angle Iron	31.59	11.86
			For >100 To 250, Deduct	-1.19	
			For >250 To 500, Deduct	-1.98	
			For >500 To 1,000, Deduct	-3.16	
			For >1,000, Deduct	-4.35	
			For Galvanized Steel, Add	9.78	
			For High Strength Steel (HSS), Add	6.32	
05 12 23 00-0527	LF		8" x 6" x 5/8" Angle Iron	40.74	15.31
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-2.55	
			For >500 To 1,000, Deduct	-4.08	
			For >1,000, Deduct	-5.61	
			For Galvanized Steel, Add	12.60	
			For High Strength Steel (HSS), Add	8.15	
05 12 23 00-0528	LF		8" x 8" x 5/8" Angle Iron	46.74	17.56
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.68	
			For >1,000, Deduct	-6.43	
			For Galvanized Steel, Add	14.46	
			For High Strength Steel (HSS), Add	9.35	
05 12 23 00-0529			3/4" Thick (05 12 23 00-0438)		
05 12 23 00-0530	LF		4" x 4" x 3/4" Angle Iron	25.62	9.32
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.57	
			For >500 To 1,000, Deduct	-2.52	
			For >1,000, Deduct	-3.47	
			For Galvanized Steel, Add	8.18	
			For High Strength Steel (HSS), Add	5.12	
05 12 23 00-0531	LF		5" x 3-1/2" x 3/4" Angle Iron	27.41	9.97
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.68	
			For >500 To 1,000, Deduct	-2.70	
			For >1,000, Deduct	-3.72	
			For Galvanized Steel, Add	8.75	
			For High Strength Steel (HSS), Add	5.48	
05 12 23 00-0532	LF		5" x 5" x 3/4" Angle Iron	32.68	11.88
			For >100 To 250, Deduct	-1.19	
			For >250 To 500, Deduct	-2.01	
			For >500 To 1,000, Deduct	-3.22	
			For >1,000, Deduct	-4.43	
			For Galvanized Steel, Add	10.44	
			For High Strength Steel (HSS), Add	6.54	
05 12 23 00-0533	LF		6" x 4" x 3/4" Angle Iron	32.68	11.88
			For >100 To 250, Deduct	-1.19	
			For >250 To 500, Deduct	-2.01	
			For >500 To 1,000, Deduct	-3.22	
			For >1,000, Deduct	-4.43	
			For Galvanized Steel, Add	10.44	
			For High Strength Steel (HSS), Add	6.54	
05 12 23 00-0534	LF		6" x 6" x 3/4" Angle Iron	39.74	14.44
			For >100 To 250, Deduct	-1.45	
			For >250 To 500, Deduct	-2.44	
			For >500 To 1,000, Deduct	-3.91	
			For >1,000, Deduct	-5.39	
			For Galvanized Steel, Add	12.69	
			For High Strength Steel (HSS), Add	7.95	
05 12 23 00-0535	LF		7" x 4" x 3/4" Angle Iron	36.27	13.19
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.23	
			For >500 To 1,000, Deduct	-3.57	
			For >1,000, Deduct	-4.92	
			For Galvanized Steel, Add	11.59	
			For High Strength Steel (HSS), Add	7.25	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0536	LF	8" x 4" x 3/4" Angle Iron	.....	39.74	14.44
		For >100 To 250, Deduct	.....	-1.45	
		For >250 To 500, Deduct	.....	-2.44	
		For >500 To 1,000, Deduct	.....	-3.91	
		For >1,000, Deduct	.....	-5.39	
		For Galvanized Steel, Add	.....	12.69	
		For High Strength Steel (HSS), Add	.....	7.95	
05 12 23 00-0537	LF	8" x 6" x 3/4" Angle Iron	.....	46.80	17.02
		For >100 To 250, Deduct	.....	-1.70	
		For >250 To 500, Deduct	.....	-2.87	
		For >500 To 1,000, Deduct	.....	-4.61	
		For >1,000, Deduct	.....	-6.35	
		For Galvanized Steel, Add	.....	14.95	
		For High Strength Steel (HSS), Add	.....	9.36	
05 12 23 00-0538	LF	8" x 8" x 3/4" Angle Iron	.....	53.87	19.58
		For >100 To 250, Deduct	.....	-1.96	
		For >250 To 500, Deduct	.....	-3.31	
		For >500 To 1,000, Deduct	.....	-5.30	
		For >1,000, Deduct	.....	-7.30	
		For Galvanized Steel, Add	.....	17.21	
		For High Strength Steel (HSS), Add	.....	10.77	
05 12 23 00-0539 7/8" Thick (05 12 23 00-0438)					
05 12 23 00-0540	LF	5" x 5" x 7/8" Angle Iron	.....	36.44	12.78
		For >100 To 250, Deduct	.....	-1.28	
		For >250 To 500, Deduct	.....	-2.19	
		For >500 To 1,000, Deduct	.....	-3.53	
		For >1,000, Deduct	.....	-4.86	
		For Galvanized Steel, Add	.....	12.03	
		For High Strength Steel (HSS), Add	.....	7.29	
05 12 23 00-0541	LF	6" x 4" x 7/8" Angle Iron	.....	36.44	12.78
		For >100 To 250, Deduct	.....	-1.28	
		For >250 To 500, Deduct	.....	-2.19	
		For >500 To 1,000, Deduct	.....	-3.53	
		For >1,000, Deduct	.....	-4.86	
		For Galvanized Steel, Add	.....	12.03	
		For High Strength Steel (HSS), Add	.....	7.29	
05 12 23 00-0542	LF	6" x 6" x 7/8" Angle Iron	.....	44.36	15.56
		For >100 To 250, Deduct	.....	-1.56	
		For >250 To 500, Deduct	.....	-2.66	
		For >500 To 1,000, Deduct	.....	-4.29	
		For >1,000, Deduct	.....	-5.92	
		For Galvanized Steel, Add	.....	14.64	
		For High Strength Steel (HSS), Add	.....	8.87	
05 12 23 00-0543	LF	8" x 6" x 7/8" Angle Iron	.....	52.39	18.37
		For >100 To 250, Deduct	.....	-1.84	
		For >250 To 500, Deduct	.....	-3.15	
		For >500 To 1,000, Deduct	.....	-5.07	
		For >1,000, Deduct	.....	-6.99	
		For Galvanized Steel, Add	.....	17.30	
		For High Strength Steel (HSS), Add	.....	10.48	
05 12 23 00-0544	LF	8" x 8" x 7/8" Angle Iron	.....	60.29	21.14
		For >100 To 250, Deduct	.....	-2.11	
		For >250 To 500, Deduct	.....	-3.62	
		For >500 To 1,000, Deduct	.....	-5.83	
		For >1,000, Deduct	.....	-8.05	
		For Galvanized Steel, Add	.....	19.90	
		For High Strength Steel (HSS), Add	.....	12.06	
05 12 23 00-0545 Bar Channel (05 12 23 00-0437)					
05 12 23 00-0546	LF	1" x 1/2" x 1/8" Thick Bar Channel	.....	3.60	
		For 316 Stainless Steel, Add	.....	2.50	
		For Aluminum, Add	.....	0.14	
		For Galvanized Steel, Add	.....	0.48	
		For 304 Stainless Steel, Add	.....	2.22	
		For High Strength Steel (HSS), Add	.....	0.72	
05 12 23 00-0547	LF	1-1/4" x 1/2" x 1/8" Thick Bar Channel	.....	4.00	
		For 316 Stainless Steel, Add	.....	2.98	
		For Aluminum, Add	.....	0.17	
		For Galvanized Steel, Add	.....	0.58	
		For 304 Stainless Steel, Add	.....	2.65	
		For High Strength Steel (HSS), Add	.....	0.80	
05 12 23 00-0548	LF	1-1/2" x 1/2" x 1/8" Thick Bar Channel	.....	4.35	
		For 316 Stainless Steel, Add	.....	3.30	
		For Aluminum, Add	.....	0.19	
		For Galvanized Steel, Add	.....	0.64	
		For 304 Stainless Steel, Add	.....	2.94	
		For High Strength Steel (HSS), Add	.....	0.87	
05 12 23 00-0549	LF	1-1/2" x 3/4" x 1/8" Thick Bar Channel	.....	5.04	
		For 316 Stainless Steel, Add	.....	3.42	
		For Aluminum, Add	.....	0.19	
		For Galvanized Steel, Add	.....	0.66	
		For 304 Stainless Steel, Add	.....	3.05	
		For High Strength Steel (HSS), Add	.....	1.01	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0550	LF		2" x 1/2" x 1/8" Thick Bar Channel	5.28	
			For 316 Stainless Steel, Add	4.19	
			For Aluminum, Add	0.24	
			For Galvanized Steel, Add	0.81	
			For 304 Stainless Steel, Add	3.73	
05 12 23 00-0551	LF		2" x 1" x 1/8" Thick Bar Channel	7.15	
			For 316 Stainless Steel, Add	4.70	
			For Aluminum, Add	0.26	
			For Galvanized Steel, Add	0.91	
			For 304 Stainless Steel, Add	4.19	
05 12 23 00-0552 Channels - C (05 12 23 00-0437)					
05 12 23 00-0553	LF		C2 x 1.78 - 2" Wide Channel.....	5.92	3.50
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.50	
			For >500 To 1,000, Deduct	-0.76	
			For >1,000, Deduct	-1.03	
			For 316 Stainless Steel, Add	4.00	
			For Aluminum, Add	0.23	
			For Galvanized Steel, Add	0.78	
			For 304 Stainless Steel, Add	3.56	
05 12 23 00-0554	LF		C3 x 4.1 - 3" Wide Channel.....	9.63	5.03
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.74	
			For >500 To 1,000, Deduct	-1.15	
			For >1,000, Deduct	-1.56	
			For 316 Stainless Steel, Add	9.34	
			For Aluminum, Add	0.53	
			For Galvanized Steel, Add	1.81	
			For 304 Stainless Steel, Add	8.32	
05 12 23 00-0555	LF		C3 x 5 - 3" Wide Channel.....	11.76	6.14
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-0.91	
			For >500 To 1,000, Deduct	-1.41	
			For >1,000, Deduct	-1.91	
			For 316 Stainless Steel, Add	11.42	
			For Aluminum, Add	0.64	
			For Galvanized Steel, Add	2.21	
			For 304 Stainless Steel, Add	10.17	
05 12 23 00-0556	LF		C3 x 6 - 3" Wide Channel.....	14.10	7.37
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.09	
			For >500 To 1,000, Deduct	-1.69	
			For >1,000, Deduct	-2.29	
			For 316 Stainless Steel, Add	13.70	
			For Aluminum, Add	0.77	
			For Galvanized Steel, Add	2.65	
			For 304 Stainless Steel, Add	12.20	
05 12 23 00-0557	LF		C4 x 5.4 - 4" Wide Channel.....	11.90	6.04
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-0.90	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.90	
			For 316 Stainless Steel, Add	12.32	
			For Aluminum, Add	0.69	
			For Galvanized Steel, Add	2.39	
			For 304 Stainless Steel, Add	10.97	
05 12 23 00-0558	LF		C4 x 7.25 - 4" Wide Channel.....	15.98	8.11
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.88	
			For >1,000, Deduct	-2.55	
			For 316 Stainless Steel, Add	16.54	
			For Aluminum, Add	0.93	
			For Galvanized Steel, Add	3.21	
			For 304 Stainless Steel, Add	14.73	
05 12 23 00-0559	LF		C5 x 6.7 - 5" Wide Channel.....	14.18	7.04
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.06	
			For >500 To 1,000, Deduct	-1.65	
			For >1,000, Deduct	-2.24	
			For 316 Stainless Steel, Add	15.30	
			For Aluminum, Add	0.86	
			For Galvanized Steel, Add	2.96	
			For 304 Stainless Steel, Add	13.62	
05 12 23 00-0560	LF		C5 x 9 - 5" Wide Channel.....	19.04	9.47
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.42	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-3.01	
			For 316 Stainless Steel, Add	20.54	
			For Aluminum, Add	1.16	
			For Galvanized Steel, Add	3.98	
			For 304 Stainless Steel, Add	18.30	



	Metals	05	
	Structural Metal Framing	05 10	05
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0561	LF		C6 x 8.2 - 6" Wide Channel	17.13	8.45
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.27	
			For >500 To 1,000, Deduct	-1.98	
			For >1,000, Deduct	-2.69	
			For 316 Stainless Steel, Add	18.72	
			For Aluminum, Add	1.05	
			For Galvanized Steel, Add	3.63	
			For 304 Stainless Steel, Add	16.67	
05 12 23 00-0562	LF		C6 x 10.5 - 6" Wide Channel	21.92	10.83
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.63	
			For >500 To 1,000, Deduct	-2.54	
			For >1,000, Deduct	-3.45	
			For 316 Stainless Steel, Add	23.97	
			For Aluminum, Add	1.35	
			For Galvanized Steel, Add	4.64	
			For 304 Stainless Steel, Add	21.35	
05 12 23 00-0563	LF		C6 x 13 - 6" Wide Channel	27.15	13.40
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.02	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-4.27	
			For 316 Stainless Steel, Add	29.66	
			For Aluminum, Add	1.67	
			For Galvanized Steel, Add	5.75	
			For 304 Stainless Steel, Add	26.42	
05 12 23 00-0564	LF		C7 x 9.8 - 7" Wide Channel	20.41	10.06
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.36	
			For >1,000, Deduct	-3.21	
			For 316 Stainless Steel, Add	22.37	
			For Aluminum, Add	1.26	
			For Galvanized Steel, Add	4.33	
			For 304 Stainless Steel, Add	19.92	
05 12 23 00-0565	LF		C7 x 12.25 - 7" Wide Channel	25.51	12.58
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-1.90	
			For >500 To 1,000, Deduct	-2.95	
			For >1,000, Deduct	-4.01	
			For 316 Stainless Steel, Add	27.97	
			For Aluminum, Add	1.57	
			For Galvanized Steel, Add	5.42	
			For 304 Stainless Steel, Add	24.91	
05 12 23 00-0566	LF		C7 x 14.75 - 7" Wide Channel	30.73	15.15
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-2.28	
			For >500 To 1,000, Deduct	-3.56	
			For >1,000, Deduct	-4.83	
			For 316 Stainless Steel, Add	33.66	
			For Aluminum, Add	1.89	
			For Galvanized Steel, Add	6.52	
			For 304 Stainless Steel, Add	29.98	
05 12 23 00-0567	LF		C8 x 11.5 - 8" Wide Channel	22.97	11.08
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-1.68	
			For >500 To 1,000, Deduct	-2.63	
			For >1,000, Deduct	-3.57	
			For 316 Stainless Steel, Add	26.24	
			For Aluminum, Add	1.48	
			For Galvanized Steel, Add	5.08	
			For 304 Stainless Steel, Add	23.37	
05 12 23 00-0568	LF		C8 x 13.75 - 8" Wide Channel	27.47	13.24
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.01	
			For >500 To 1,000, Deduct	-3.14	
			For >1,000, Deduct	-4.27	
			For 316 Stainless Steel, Add	31.39	
			For Aluminum, Add	1.77	
			For Galvanized Steel, Add	6.08	
			For 304 Stainless Steel, Add	27.96	
05 12 23 00-0569	LF		C8 x 18.75 - 8" Wide Channel	37.45	18.06
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.74	
			For >500 To 1,000, Deduct	-4.28	
			For >1,000, Deduct	-5.82	
			For 316 Stainless Steel, Add	42.82	
			For Aluminum, Add	2.41	
			For Galvanized Steel, Add	8.30	
			For 304 Stainless Steel, Add	38.13	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0570	LF		C9 x 13.4 - 9" Wide Channel.....	26.77	12.90
			For >100 To 250, Deduct	-1.29	
			For >250 To 500, Deduct	-1.96	
			For >500 To 1,000, Deduct	-3.06	
			For >1,000, Deduct	-4.16	
			For 316 Stainless Steel, Add	30.59	
			For Aluminum, Add	1.72	
			For Galvanized Steel, Add	5.93	
			For 304 Stainless Steel, Add	27.25	
05 12 23 00-0571	LF		C9 x 15 - 9" Wide Channel.....	29.96	14.44
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.19	
			For >500 To 1,000, Deduct	-3.42	
			For >1,000, Deduct	-4.65	
			For 316 Stainless Steel, Add	34.24	
			For Aluminum, Add	1.93	
			For Galvanized Steel, Add	6.63	
			For 304 Stainless Steel, Add	30.50	
05 12 23 00-0572	LF		C9 x 20 - 9" Wide Channel.....	39.95	19.26
			For >100 To 250, Deduct	-1.93	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.57	
			For >1,000, Deduct	-6.21	
			For 316 Stainless Steel, Add	45.66	
			For Aluminum, Add	2.57	
			For Galvanized Steel, Add	8.85	
			For 304 Stainless Steel, Add	40.67	
05 12 23 00-0573	LF		C10 x 15.3 - 10" Wide Channel.....	30.55	14.73
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-2.24	
			For >500 To 1,000, Deduct	-3.49	
			For >1,000, Deduct	-4.75	
			For 316 Stainless Steel, Add	34.91	
			For Aluminum, Add	1.96	
			For Galvanized Steel, Add	6.76	
			For 304 Stainless Steel, Add	31.09	
05 12 23 00-0574	LF		C10 x 20 - 10" Wide Channel.....	39.95	19.26
			For >100 To 250, Deduct	-1.93	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.57	
			For >1,000, Deduct	-6.21	
			For 316 Stainless Steel, Add	45.66	
			For Aluminum, Add	2.57	
			For Galvanized Steel, Add	8.85	
			For 304 Stainless Steel, Add	40.67	
05 12 23 00-0575	LF		C10 x 25 - 10" Wide Channel.....	49.93	24.07
			For >100 To 250, Deduct	-2.41	
			For >250 To 500, Deduct	-3.66	
			For >500 To 1,000, Deduct	-5.71	
			For >1,000, Deduct	-7.76	
			For 316 Stainless Steel, Add	57.06	
			For Aluminum, Add	3.21	
			For Galvanized Steel, Add	11.05	
			For 304 Stainless Steel, Add	50.82	
05 12 23 00-0576	LF		C10 x 30 - 10" Wide Channel.....	59.92	28.89
			For >100 To 250, Deduct	-2.89	
			For >250 To 500, Deduct	-4.39	
			For >500 To 1,000, Deduct	-6.85	
			For >1,000, Deduct	-9.31	
			For 316 Stainless Steel, Add	68.48	
			For Aluminum, Add	3.85	
			For Galvanized Steel, Add	13.27	
			For 304 Stainless Steel, Add	60.99	
05 12 23 00-0577	LF		C12 x 20.7 - 12" Wide Channel.....	41.35	19.93
			For >100 To 250, Deduct	-1.99	
			For >250 To 500, Deduct	-3.03	
			For >500 To 1,000, Deduct	-4.73	
			For >1,000, Deduct	-6.42	
			For 316 Stainless Steel, Add	47.26	
			For Aluminum, Add	2.66	
			For Galvanized Steel, Add	9.16	
			For 304 Stainless Steel, Add	42.09	
05 12 23 00-0578	LF		C12 x 25 - 12" Wide Channel.....	49.93	24.07
			For >100 To 250, Deduct	-2.41	
			For >250 To 500, Deduct	-3.66	
			For >500 To 1,000, Deduct	-5.71	
			For >1,000, Deduct	-7.76	
			For 316 Stainless Steel, Add	57.06	
			For Aluminum, Add	3.21	
			For Galvanized Steel, Add	11.05	
			For 304 Stainless Steel, Add	50.82	



	Metals	05	
	Structural Metal Framing	05 10	05
	Structural Steel Framing	05 12	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0579	LF	C12 x 30 - 12" Wide Channel	59.92	28.89
		For >100 To 250, Deduct	-2.89	
		For >250 To 500, Deduct	-4.39	
		For >500 To 1,000, Deduct	-6.85	
		For >1,000, Deduct	-9.31	
		For 316 Stainless Steel, Add	68.48	
		For Aluminum, Add	3.85	
		For Galvanized Steel, Add	13.27	
		For 304 Stainless Steel, Add	60.99	
05 12 23 00-0580	LF	C15 x 33.9 - 15" Wide Channel	67.71	32.64
		For >100 To 250, Deduct	-3.26	
		For >250 To 500, Deduct	-4.96	
		For >500 To 1,000, Deduct	-7.74	
		For >1,000, Deduct	-10.52	
		For 316 Stainless Steel, Add	77.38	
		For Aluminum, Add	4.35	
		For Galvanized Steel, Add	14.99	
		For 304 Stainless Steel, Add	68.91	
05 12 23 00-0581	LF	C15 x 40 - 15" Wide Channel	79.89	38.52
		For >100 To 250, Deduct	-3.85	
		For >250 To 500, Deduct	-5.85	
		For >500 To 1,000, Deduct	-9.13	
		For >1,000, Deduct	-12.41	
		For 316 Stainless Steel, Add	91.30	
		For Aluminum, Add	5.14	
		For Galvanized Steel, Add	17.69	
		For 304 Stainless Steel, Add	81.31	
05 12 23 00-0582	LF	C15 x 50 - 15" Wide Channel	99.87	48.14
		For >100 To 250, Deduct	-4.82	
		For >250 To 500, Deduct	-7.31	
		For >500 To 1,000, Deduct	-11.41	
		For >1,000, Deduct	-15.52	
		For 316 Stainless Steel, Add	114.14	
		For Aluminum, Add	6.42	
		For Galvanized Steel, Add	22.12	
		For 304 Stainless Steel, Add	101.66	
05 12 23 00-0583 Miscellaneous Channels - MC (05 12 23 00-0437)				
05 12 23 00-0584	LF	MC6 x 12 - 6" Wide Channel	25.06	12.38
		For >100 To 250, Deduct	-1.24	
		For >250 To 500, Deduct	-1.86	
		For >500 To 1,000, Deduct	-2.90	
		For >1,000, Deduct	-3.94	
		For 316 Stainless Steel, Add	27.39	
		For Aluminum, Add	1.54	
		For Galvanized Steel, Add	5.31	
		For 304 Stainless Steel, Add	24.40	
05 12 23 00-0585	LF	MC6 x 15.1 - 6" Wide Channel	31.53	15.57
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-2.35	
		For >500 To 1,000, Deduct	-3.65	
		For >1,000, Deduct	-4.96	
		For 316 Stainless Steel, Add	34.46	
		For Aluminum, Add	1.94	
		For Galvanized Steel, Add	6.68	
		For 304 Stainless Steel, Add	30.69	
05 12 23 00-0586	LF	MC6 x 15.3 - 6" Wide Channel	31.95	15.78
		For >100 To 250, Deduct	-1.58	
		For >250 To 500, Deduct	-2.38	
		For >500 To 1,000, Deduct	-3.70	
		For >1,000, Deduct	-5.03	
		For 316 Stainless Steel, Add	34.91	
		For Aluminum, Add	1.96	
		For Galvanized Steel, Add	6.76	
		For 304 Stainless Steel, Add	31.09	
05 12 23 00-0587	LF	MC6 x 16.3 - 6" Wide Channel	34.05	16.80
		For >100 To 250, Deduct	-1.68	
		For >250 To 500, Deduct	-2.53	
		For >500 To 1,000, Deduct	-3.94	
		For >1,000, Deduct	-5.36	
		For 316 Stainless Steel, Add	37.22	
		For Aluminum, Add	2.09	
		For Galvanized Steel, Add	7.21	
		For 304 Stainless Steel, Add	33.15	
05 12 23 00-0588	LF	MC6 x 18 - 6" Wide Channel	37.59	18.56
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.80	
		For >500 To 1,000, Deduct	-4.35	
		For >1,000, Deduct	-5.91	
		For 316 Stainless Steel, Add	41.09	
		For Aluminum, Add	2.31	
		For Galvanized Steel, Add	7.96	
		For 304 Stainless Steel, Add	36.59	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0589	LF		MC7 x 17.6 - 7" Wide Channel.....	36.66	18.08
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.72	
			For >500 To 1,000, Deduct	-4.24	
			For >1,000, Deduct	-5.76	
			For 316 Stainless Steel, Add	40.16	
			For Aluminum, Add	2.26	
			For Galvanized Steel, Add	7.78	
			For 304 Stainless Steel, Add	35.77	
05 12 23 00-0590	LF		MC7 x 19.1 - 7" Wide Channel.....	39.78	19.62
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.96	
			For >500 To 1,000, Deduct	-4.61	
			For >1,000, Deduct	-6.25	
			For 316 Stainless Steel, Add	43.58	
			For Aluminum, Add	2.45	
			For Galvanized Steel, Add	8.44	
			For 304 Stainless Steel, Add	38.82	
05 12 23 00-0591	LF		MC7 x 22.7 - 7" Wide Channel.....	47.28	23.32
			For >100 To 250, Deduct	-2.33	
			For >250 To 500, Deduct	-3.51	
			For >500 To 1,000, Deduct	-5.47	
			For >1,000, Deduct	-7.43	
			For 316 Stainless Steel, Add	51.81	
			For Aluminum, Add	2.91	
			For Galvanized Steel, Add	10.04	
			For 304 Stainless Steel, Add	46.14	
05 12 23 00-0592	LF		MC8 x 8.5 - 8" Wide Channel.....	16.98	8.19
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.24	
			For >500 To 1,000, Deduct	-1.94	
			For >1,000, Deduct	-2.64	
			For 316 Stainless Steel, Add	19.39	
			For Aluminum, Add	1.09	
			For Galvanized Steel, Add	3.76	
			For 304 Stainless Steel, Add	17.27	
05 12 23 00-0593	LF		MC8 x 18.7 - 8" Wide Channel.....	37.35	18.00
			For >100 To 250, Deduct	-1.80	
			For >250 To 500, Deduct	-2.73	
			For >500 To 1,000, Deduct	-4.27	
			For >1,000, Deduct	-5.80	
			For 316 Stainless Steel, Add	42.69	
			For Aluminum, Add	2.40	
			For Galvanized Steel, Add	8.27	
			For 304 Stainless Steel, Add	38.02	
05 12 23 00-0594	LF		MC8 x 20 - 8" Wide Channel.....	39.95	19.26
			For >100 To 250, Deduct	-1.93	
			For >250 To 500, Deduct	-2.92	
			For >500 To 1,000, Deduct	-4.57	
			For >1,000, Deduct	-6.21	
			For 316 Stainless Steel, Add	45.66	
			For Aluminum, Add	2.57	
			For Galvanized Steel, Add	8.85	
			For 304 Stainless Steel, Add	40.67	
05 12 23 00-0595	LF		MC8 x 21.4 - 8" Wide Channel.....	42.75	20.61
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-3.13	
			For >500 To 1,000, Deduct	-4.89	
			For >1,000, Deduct	-6.64	
			For 316 Stainless Steel, Add	48.86	
			For Aluminum, Add	2.75	
			For Galvanized Steel, Add	9.47	
			For 304 Stainless Steel, Add	43.52	
05 12 23 00-0596	LF		MC8 x 22.8 - 8" Wide Channel.....	45.53	21.96
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-3.33	
			For >500 To 1,000, Deduct	-5.20	
			For >1,000, Deduct	-7.07	
			For 316 Stainless Steel, Add	52.03	
			For Aluminum, Add	2.93	
			For Galvanized Steel, Add	10.08	
			For 304 Stainless Steel, Add	46.34	
05 12 23 00-0597	LF		MC9 x 23.9 - 9" Wide Channel.....	47.73	23.01
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-3.49	
			For >500 To 1,000, Deduct	-5.45	
			For >1,000, Deduct	-7.41	
			For 316 Stainless Steel, Add	54.56	
			For Aluminum, Add	3.07	
			For Galvanized Steel, Add	10.57	
			For 304 Stainless Steel, Add	48.59	



	Metals	05	
	Structural Metal Framing	05 10	05
	Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0598 LF MC9 x 25.4 - 9" Wide Channel	50.73	24.45
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.71	
For >500 To 1,000, Deduct	-5.80	
For >1,000, Deduct	-7.88	
For 316 Stainless Steel, Add	57.98	
For Aluminum, Add	3.26	
For Galvanized Steel, Add	11.23	
For 304 Stainless Steel, Add	51.64	
05 12 23 00-0599 LF MC10 x 6.5 - 10" Wide Channel.....	12.99	6.26
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.48	
For >1,000, Deduct	-2.02	
For 316 Stainless Steel, Add	14.85	
For Aluminum, Add	0.84	
For Galvanized Steel, Add	2.88	
For 304 Stainless Steel, Add	13.22	
05 12 23 00-0600 LF MC10 x 8.4 - 10" Wide Channel.....	16.78	8.09
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.61	
For 316 Stainless Steel, Add	19.17	
For Aluminum, Add	1.08	
For Galvanized Steel, Add	3.71	
For 304 Stainless Steel, Add	17.07	
05 12 23 00-0601 LF MC10 x 21.9 - 10" Wide Channel.....	43.73	21.09
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-3.20	
For >500 To 1,000, Deduct	-5.00	
For >1,000, Deduct	-6.79	
For 316 Stainless Steel, Add	49.98	
For Aluminum, Add	2.81	
For Galvanized Steel, Add	9.68	
For 304 Stainless Steel, Add	44.52	
05 12 23 00-0602 LF MC10 x 24.9 - 10" Wide Channel.....	49.73	23.98
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.64	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.73	
For 316 Stainless Steel, Add	56.83	
For Aluminum, Add	3.20	
For Galvanized Steel, Add	11.01	
For 304 Stainless Steel, Add	50.62	
05 12 23 00-0603 LF MC10 x 25.3 - 10" Wide Channel.....	50.53	24.37
For >100 To 250, Deduct	-2.44	
For >250 To 500, Deduct	-3.70	
For >500 To 1,000, Deduct	-5.77	
For >1,000, Deduct	-7.85	
For 316 Stainless Steel, Add	57.76	
For Aluminum, Add	3.25	
For Galvanized Steel, Add	11.19	
For 304 Stainless Steel, Add	51.44	
05 12 23 00-0604 LF MC10 x 28.3 - 10" Wide Channel.....	56.53	27.25
For >100 To 250, Deduct	-2.73	
For >250 To 500, Deduct	-4.14	
For >500 To 1,000, Deduct	-6.46	
For >1,000, Deduct	-8.78	
For 316 Stainless Steel, Add	64.61	
For Aluminum, Add	3.63	
For Galvanized Steel, Add	12.52	
For 304 Stainless Steel, Add	57.54	
05 12 23 00-0605 LF MC10 x 28.5 - 10" Wide Channel.....	56.92	27.45
For >100 To 250, Deduct	-2.74	
For >250 To 500, Deduct	-4.17	
For >500 To 1,000, Deduct	-6.51	
For >1,000, Deduct	-8.84	
For 316 Stainless Steel, Add	65.06	
For Aluminum, Add	3.66	
For Galvanized Steel, Add	12.60	
For 304 Stainless Steel, Add	57.94	
05 12 23 00-0606 LF MC10 x 33.6 - 10" Wide Channel.....	67.11	32.36
For >100 To 250, Deduct	-3.24	
For >250 To 500, Deduct	-4.91	
For >500 To 1,000, Deduct	-7.67	
For >1,000, Deduct	-10.43	
For 316 Stainless Steel, Add	76.70	
For Aluminum, Add	4.31	
For Galvanized Steel, Add	14.86	
For 304 Stainless Steel, Add	68.31	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0607	LF		MC10 x 41.1 - 10" Wide Channel.....	82.09	39.58
			For >100 To 250, Deduct	-3.96	
			For >250 To 500, Deduct	-6.01	
			For >500 To 1,000, Deduct	-9.38	
			For >1,000, Deduct	-12.75	
			For 316 Stainless Steel, Add	93.82	
			For Aluminum, Add	5.28	
			For Galvanized Steel, Add	18.18	
			For 304 Stainless Steel, Add	83.56	
05 12 23 00-0608	LF		MC12 x 30.9 - 12" Wide Channel.....	61.72	29.75
			For >100 To 250, Deduct	-2.98	
			For >250 To 500, Deduct	-4.52	
			For >500 To 1,000, Deduct	-7.05	
			For >1,000, Deduct	-9.59	
			For 316 Stainless Steel, Add	70.53	
			For Aluminum, Add	3.97	
			For Galvanized Steel, Add	13.66	
			For 304 Stainless Steel, Add	62.81	
05 12 23 00-0609	LF		MC12 x 32.9 - 12" Wide Channel.....	65.71	31.68
			For >100 To 250, Deduct	-3.17	
			For >250 To 500, Deduct	-4.81	
			For >500 To 1,000, Deduct	-7.51	
			For >1,000, Deduct	-10.21	
			For 316 Stainless Steel, Add	75.10	
			For Aluminum, Add	4.22	
			For Galvanized Steel, Add	14.55	
			For 304 Stainless Steel, Add	66.89	
05 12 23 00-0610	LF		MC12 x 35 - 12" Wide Channel.....	69.91	33.70
			For >100 To 250, Deduct	-3.37	
			For >250 To 500, Deduct	-5.12	
			For >500 To 1,000, Deduct	-7.99	
			For >1,000, Deduct	-10.86	
			For 316 Stainless Steel, Add	79.90	
			For Aluminum, Add	4.49	
			For Galvanized Steel, Add	15.48	
			For 304 Stainless Steel, Add	71.16	
05 12 23 00-0611	LF		MC12 x 37 - 12" Wide Channel.....	73.90	35.63
			For >100 To 250, Deduct	-3.56	
			For >250 To 500, Deduct	-5.41	
			For >500 To 1,000, Deduct	-8.45	
			For >1,000, Deduct	-11.48	
			For 316 Stainless Steel, Add	84.45	
			For Aluminum, Add	4.75	
			For Galvanized Steel, Add	16.36	
			For 304 Stainless Steel, Add	75.21	
05 12 23 00-0612	LF		MC12 x 40 - 12" Wide Channel.....	79.89	38.52
			For >100 To 250, Deduct	-3.85	
			For >250 To 500, Deduct	-5.85	
			For >500 To 1,000, Deduct	-9.13	
			For >1,000, Deduct	-12.41	
			For 316 Stainless Steel, Add	91.30	
			For Aluminum, Add	5.14	
			For Galvanized Steel, Add	17.69	
			For 304 Stainless Steel, Add	81.31	
05 12 23 00-0613	LF		MC12 x 45 - 12" Wide Channel.....	89.88	43.34
			For >100 To 250, Deduct	-4.33	
			For >250 To 500, Deduct	-6.58	
			For >500 To 1,000, Deduct	-10.27	
			For >1,000, Deduct	-13.96	
			For 316 Stainless Steel, Add	102.72	
			For Aluminum, Add	5.78	
			For Galvanized Steel, Add	19.90	
			For 304 Stainless Steel, Add	91.49	
05 12 23 00-0614	LF		MC12 x 50 - 12" Wide Channel.....	99.87	48.15
			For >100 To 250, Deduct	-4.82	
			For >250 To 500, Deduct	-7.31	
			For >500 To 1,000, Deduct	-11.41	
			For >1,000, Deduct	-15.52	
			For 316 Stainless Steel, Add	114.14	
			For Aluminum, Add	6.42	
			For Galvanized Steel, Add	22.12	
			For 304 Stainless Steel, Add	101.66	
05 12 23 00-0615	LF		MC13 x 31.8 - 13" Wide Channel.....	63.51	30.62
			For >100 To 250, Deduct	-3.06	
			For >250 To 500, Deduct	-4.65	
			For >500 To 1,000, Deduct	-7.26	
			For >1,000, Deduct	-9.87	
			For 316 Stainless Steel, Add	72.58	
			For Aluminum, Add	4.08	
			For Galvanized Steel, Add	14.06	
			For 304 Stainless Steel, Add	64.64	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0616	LF		MC13 x 35 - 13" Wide Channel	69.91	33.70
			For >100 To 250, Deduct	-3.37	
			For >250 To 500, Deduct	-5.12	
			For >500 To 1,000, Deduct	-7.99	
			For >1,000, Deduct	-10.86	
			For 316 Stainless Steel, Add	79.90	
			For Aluminum, Add	4.49	
			For Galvanized Steel, Add	15.48	
			For 304 Stainless Steel, Add	71.16	
05 12 23 00-0617	LF		MC13 x 40 - 13" Wide Channel	79.89	38.52
			For >100 To 250, Deduct	-3.85	
			For >250 To 500, Deduct	-5.85	
			For >500 To 1,000, Deduct	-9.13	
			For >1,000, Deduct	-12.41	
			For 316 Stainless Steel, Add	91.30	
			For Aluminum, Add	5.14	
			For Galvanized Steel, Add	17.69	
			For 304 Stainless Steel, Add	81.31	
05 12 23 00-0618	LF		MC13 x 50 - 13" Wide Channel	99.87	48.15
			For >100 To 250, Deduct	-4.82	
			For >250 To 500, Deduct	-7.31	
			For >500 To 1,000, Deduct	-11.41	
			For >1,000, Deduct	-15.52	
			For 316 Stainless Steel, Add	114.14	
			For Aluminum, Add	6.42	
			For Galvanized Steel, Add	22.12	
			For 304 Stainless Steel, Add	101.66	
05 12 23 00-0619	LF		MC18 x 42.7 - 18" Wide Channel.....	85.29	41.12
			For >100 To 250, Deduct	-4.11	
			For >250 To 500, Deduct	-6.24	
			For >500 To 1,000, Deduct	-9.75	
			For >1,000, Deduct	-13.25	
			For 316 Stainless Steel, Add	97.47	
			For Aluminum, Add	5.48	
			For Galvanized Steel, Add	18.89	
			For 304 Stainless Steel, Add	86.81	
05 12 23 00-0620	LF		MC18 x 45.8 - 18" Wide Channel.....	91.48	44.10
			For >100 To 250, Deduct	-4.41	
			For >250 To 500, Deduct	-6.70	
			For >500 To 1,000, Deduct	-10.46	
			For >1,000, Deduct	-14.21	
			For 316 Stainless Steel, Add	104.54	
			For Aluminum, Add	5.88	
			For Galvanized Steel, Add	20.26	
			For 304 Stainless Steel, Add	93.11	
05 12 23 00-0621	LF		MC18 x 51.9 - 18" Wide Channel.....	103.66	49.98
			For >100 To 250, Deduct	-5.00	
			For >250 To 500, Deduct	-7.59	
			For >500 To 1,000, Deduct	-11.85	
			For >1,000, Deduct	-16.10	
			For 316 Stainless Steel, Add	118.46	
			For Aluminum, Add	6.66	
			For Galvanized Steel, Add	22.95	
			For 304 Stainless Steel, Add	105.51	
05 12 23 00-0622	LF		MC18 x 58 - 18" Wide Channel	115.84	55.85
			For >100 To 250, Deduct	-5.59	
			For >250 To 500, Deduct	-8.48	
			For >500 To 1,000, Deduct	-13.24	
			For >1,000, Deduct	-18.00	
			For 316 Stainless Steel, Add	132.38	
			For Aluminum, Add	7.45	
			For Galvanized Steel, Add	25.65	
			For 304 Stainless Steel, Add	117.90	
05 12 23 00-0623 Structural Bar Tees (05 12 23 00-0437)					
05 12 23 00-0624	LF		3/4" x 3/4" x 1/8" Structural Bar Tee	3.99	2.57
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.36	
			For >500 To 1,000, Deduct	-0.54	
			For >1,000, Deduct	-0.73	
			For 316 Stainless Steel, Add	1.86	
			For Aluminum, Add	0.10	
			For Galvanized Steel, Add	0.36	
			For 304 Stainless Steel, Add	1.65	
05 12 23 00-0625	LF		1" x 1" x 1/8" Structural Bar Tee	4.81	3.02
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.42	
			For >500 To 1,000, Deduct	-0.64	
			For >1,000, Deduct	-0.86	
			For 316 Stainless Steel, Add	2.53	
			For Aluminum, Add	0.14	
			For Galvanized Steel, Add	0.49	
			For 304 Stainless Steel, Add	2.25	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0626	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	6.91	3.49
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.52	
			For >500 To 1,000, Deduct	-0.81	
			For >1,000, Deduct	-1.10	
			For 316 Stainless Steel, Add	7.23	
			For Aluminum, Add	0.41	
			For Galvanized Steel, Add	1.40	
			For 304 Stainless Steel, Add	6.44	
05 12 23 00-0627	LF		2" x 2" x 1/4" Structural Bar Tee	9.46	4.56
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.69	
			For >500 To 1,000, Deduct	-1.08	
			For >1,000, Deduct	-1.47	
			For 316 Stainless Steel, Add	10.78	
			For Aluminum, Add	0.61	
			For Galvanized Steel, Add	2.09	
			For 304 Stainless Steel, Add	9.60	
05 12 23 00-0628	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	13.39	5.50
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.92	
			For 316 Stainless Steel, Add	19.36	
			For Aluminum, Add	1.09	
			For Galvanized Steel, Add	3.75	
			For 304 Stainless Steel, Add	17.24	
05 12 23 00-0629	LF		3" x 3" x 3/8" Structural Bar Tee	16.66	7.04
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.12	
			For >500 To 1,000, Deduct	-1.77	
			For >1,000, Deduct	-2.42	
			For 316 Stainless Steel, Add	23.23	
			For Aluminum, Add	1.31	
			For Galvanized Steel, Add	4.50	
			For 304 Stainless Steel, Add	20.69	
05 12 23 00-0630 Structural Zees (05 12 23 00-0437)					
05 12 23 00-0631	LF		1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee.....	8.02	3.49
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.55	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000, Deduct	-1.18	
			For 316 Stainless Steel, Add	10.78	
			For Aluminum, Add	0.61	
			For Galvanized Steel, Add	2.09	
			For 304 Stainless Steel, Add	9.60	
05 12 23 00-0632	LF		2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	13.61	4.16
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000, Deduct	-1.71	
			For 316 Stainless Steel, Add	25.82	
			For Aluminum, Add	1.45	
			For Galvanized Steel, Add	5.00	
			For 304 Stainless Steel, Add	23.00	
05 12 23 00-0633	LF		3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	16.14	4.70
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.87	
			For >500 To 1,000, Deduct	-1.43	
			For >1,000, Deduct	-1.99	
			For 316 Stainless Steel, Add	31.62	
			For Aluminum, Add	1.78	
			For Galvanized Steel, Add	6.13	
			For 304 Stainless Steel, Add	28.16	
05 12 23 00-0634	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	21.12	5.36
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.06	
			For >500 To 1,000, Deduct	-1.77	
			For >1,000, Deduct	-2.48	
			For 316 Stainless Steel, Add	44.70	
			For Aluminum, Add	2.51	
			For Galvanized Steel, Add	8.66	
			For 304 Stainless Steel, Add	39.81	
05 12 23 00-0635	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	26.70	5.84
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-1.25	
			For >500 To 1,000, Deduct	-2.11	
			For >1,000, Deduct	-2.98	
			For 316 Stainless Steel, Add	60.51	
			For Aluminum, Add	3.40	
			For Galvanized Steel, Add	11.72	
			For 304 Stainless Steel, Add	53.89	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0636			Junior I-Beams (05 12 23 00-0437)		
05 12 23 00-0637	LF		3" Junior I-Beam, 2.9 LB/LF.....	11.16	5.03
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.78	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000, Deduct	-1.68	
			For 316 Stainless Steel, Add	14.24	
			For Aluminum, Add	0.80	
			For Galvanized Steel, Add	2.76	
			For 304 Stainless Steel, Add	12.68	
05 12 23 00-0638	LF		4" Junior I-Beam, 3.2 LB/LF.....	12.25	5.50
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.86	
			For >500 To 1,000, Deduct	-1.35	
			For >1,000, Deduct	-1.84	
			For 316 Stainless Steel, Add	15.71	
			For Aluminum, Add	0.88	
			For Galvanized Steel, Add	3.04	
			For 304 Stainless Steel, Add	13.99	
05 12 23 00-0639	LF		5" Junior I-Beam, 3.8 LB/LF.....	13.87	6.04
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-0.95	
			For >500 To 1,000, Deduct	-1.50	
			For >1,000, Deduct	-2.05	
			For 316 Stainless Steel, Add	18.62	
			For Aluminum, Add	1.05	
			For Galvanized Steel, Add	3.61	
			For 304 Stainless Steel, Add	16.59	
05 12 23 00-0640	LF		6" Junior I-Beam, 4.4 LB/LF.....	15.51	6.58
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.05	
			For >500 To 1,000, Deduct	-1.65	
			For >1,000, Deduct	-2.26	
			For 316 Stainless Steel, Add	21.57	
			For Aluminum, Add	1.21	
			For Galvanized Steel, Add	4.18	
			For 304 Stainless Steel, Add	19.21	
05 12 23 00-0641	LF		7" Junior I-Beam, 5.5 LB/LF.....	17.83	7.04
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.83	
			For >1,000, Deduct	-2.51	
			For 316 Stainless Steel, Add	26.98	
			For Aluminum, Add	1.52	
			For Galvanized Steel, Add	5.23	
			For 304 Stainless Steel, Add	24.03	
05 12 23 00-0642	LF		8" Junior I-Beam, 6.5 LB/LF.....	19.98	7.52
			For >100 To 250, Deduct	-0.75	
			For >250 To 500, Deduct	-1.25	
			For >500 To 1,000, Deduct	-2.00	
			For >1,000, Deduct	-2.75	
			For 316 Stainless Steel, Add	31.87	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.18	
			For 304 Stainless Steel, Add	28.39	
05 12 23 00-0643	LF		10" Junior I-Beam, 9 LB/LF.....	25.25	8.59
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.49	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000, Deduct	-3.33	
			For 316 Stainless Steel, Add	44.16	
			For Aluminum, Add	2.48	
			For Galvanized Steel, Add	8.56	
			For 304 Stainless Steel, Add	39.33	
05 12 23 00-0644	LF		12" Junior I-Beam, 11.8 LB/LF.....	31.69	10.20
			For >100 To 250, Deduct	-1.02	
			For >250 To 500, Deduct	-1.81	
			For >500 To 1,000, Deduct	-2.94	
			For >1,000, Deduct	-4.08	
			For 316 Stainless Steel, Add	57.89	
			For Aluminum, Add	3.26	
			For Galvanized Steel, Add	11.22	
			For 304 Stainless Steel, Add	51.56	
05 12 23 00-0645			Round Stock (05 12 23 00-0437)		
05 12 23 00-0646	LF		1/4" Carbon Steel Rounds, ASTM A108.....	1.57	
			For 316 Stainless Steel, Add	2.14	
			For Aluminum, Add	0.12	
			For Galvanized Steel, Add	0.42	
			For 304 Stainless Steel, Add	1.91	
05 12 23 00-0647	LF		3/8" Carbon Steel Rounds, ASTM A108.....	2.34	
			For 316 Stainless Steel, Add	4.22	
			For Aluminum, Add	0.24	
			For Galvanized Steel, Add	0.82	
			For 304 Stainless Steel, Add	3.76	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0648 LF 1/2" Carbon Steel Rounds, ASTM A108	3.13	
For 316 Stainless Steel, Add	6.43	
For Aluminum, Add	0.36	
For Galvanized Steel, Add	1.25	
For 304 Stainless Steel, Add	5.73	
05 12 23 00-0649 LF 5/8" Carbon Steel Rounds, ASTM A108	4.61	
For 316 Stainless Steel, Add	10.75	
For Aluminum, Add	0.60	
For Galvanized Steel, Add	2.08	
For 304 Stainless Steel, Add	9.58	
05 12 23 00-0650 LF 3/4" Carbon Steel Rounds, ASTM A108	5.48	
For 316 Stainless Steel, Add	12.77	
For Aluminum, Add	0.72	
For Galvanized Steel, Add	2.47	
For 304 Stainless Steel, Add	11.37	
05 12 23 00-0651 LF 7/8" Carbon Steel Rounds, ASTM A108	6.38	
For 316 Stainless Steel, Add	14.91	
For Aluminum, Add	0.84	
For Galvanized Steel, Add	2.89	
For 304 Stainless Steel, Add	13.28	
05 12 23 00-0652 LF 1" Carbon Steel Rounds, ASTM A108	9.13	
For 316 Stainless Steel, Add	22.72	
For Aluminum, Add	1.28	
For Galvanized Steel, Add	4.40	
For 304 Stainless Steel, Add	20.24	
05 12 23 00-0653 LF 1-1/8" Carbon Steel Rounds, ASTM A108	11.12	
For 316 Stainless Steel, Add	27.62	
For Aluminum, Add	1.55	
For Galvanized Steel, Add	5.35	
For 304 Stainless Steel, Add	24.60	
05 12 23 00-0654 LF 1-1/4" Carbon Steel Rounds, ASTM A108	13.35	
For 316 Stainless Steel, Add	32.48	
For Aluminum, Add	1.83	
For Galvanized Steel, Add	6.29	
For 304 Stainless Steel, Add	28.93	
05 12 23 00-0655 LF 1-3/8" Carbon Steel Rounds, ASTM A108	16.12	
For 316 Stainless Steel, Add	39.65	
For Aluminum, Add	2.23	
For Galvanized Steel, Add	7.68	
For 304 Stainless Steel, Add	35.31	
05 12 23 00-0656 LF 1-1/2" Carbon Steel Rounds, ASTM A108	18.07	
For 316 Stainless Steel, Add	43.49	
For Aluminum, Add	2.45	
For Galvanized Steel, Add	8.43	
For 304 Stainless Steel, Add	38.73	
05 12 23 00-0657 LF 1-5/8" Carbon Steel Rounds, ASTM A108	20.99	
For 316 Stainless Steel, Add	49.28	
For Aluminum, Add	2.77	
For Galvanized Steel, Add	9.55	
For 304 Stainless Steel, Add	43.89	
05 12 23 00-0658 LF 1-3/4" Carbon Steel Rounds, ASTM A108	25.38	
For 316 Stainless Steel, Add	57.34	
For Aluminum, Add	3.23	
For Galvanized Steel, Add	11.11	
For 304 Stainless Steel, Add	51.07	
05 12 23 00-0659 LF 1-7/8" Carbon Steel Rounds, ASTM A108	30.83	
For 316 Stainless Steel, Add	67.17	
For Aluminum, Add	3.78	
For Galvanized Steel, Add	13.01	
For 304 Stainless Steel, Add	59.82	
05 12 23 00-0660 LF 2" Carbon Steel Rounds, ASTM A108	35.44	
For 316 Stainless Steel, Add	74.72	
For Aluminum, Add	4.20	
For Galvanized Steel, Add	14.48	
For 304 Stainless Steel, Add	66.55	
05 12 23 00-0661 LF 2-1/8" Carbon Steel Rounds, ASTM A108	41.69	
For 316 Stainless Steel, Add	85.34	
For Aluminum, Add	4.80	
For Galvanized Steel, Add	16.54	
For 304 Stainless Steel, Add	76.01	
05 12 23 00-0662 LF 2-1/4" Carbon Steel Rounds, ASTM A108	47.26	
For 316 Stainless Steel, Add	95.97	
For Aluminum, Add	5.40	
For Galvanized Steel, Add	18.59	
For 304 Stainless Steel, Add	85.47	
05 12 23 00-0663 LF 2-3/8" Carbon Steel Rounds, ASTM A108	54.15	
For 316 Stainless Steel, Add	109.76	
For Aluminum, Add	6.17	
For Galvanized Steel, Add	21.27	
For 304 Stainless Steel, Add	97.76	
05 12 23 00-0664 LF 2-1/2" Carbon Steel Rounds, ASTM A108	60.28	
For 316 Stainless Steel, Add	118.27	
For Aluminum, Add	6.65	
For Galvanized Steel, Add	22.92	
For 304 Stainless Steel, Add	105.34	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0665	LF		2-5/8" Carbon Steel Rounds, ASTM A108.....	72.85	
			For 316 Stainless Steel, Add	150.24	
			For Aluminum, Add	8.45	
			For Galvanized Steel, Add	29.11	
			For 304 Stainless Steel, Add	133.81	
05 12 23 00-0666	LF		2-3/4" Carbon Steel Rounds, ASTM A108.....	82.90	
			For 316 Stainless Steel, Add	171.33	
			For Aluminum, Add	9.64	
			For Galvanized Steel, Add	33.19	
			For 304 Stainless Steel, Add	152.59	
05 12 23 00-0667	LF		2-7/8 Carbon Steel Rounds, ASTM A108.....	92.49	
			For 316 Stainless Steel, Add	190.94	
			For Aluminum, Add	10.74	
			For Galvanized Steel, Add	37.00	
			For 304 Stainless Steel, Add	170.06	
05 12 23 00-0668	LF		3" Carbon Steel Rounds, ASTM A108.....	97.74	
			For 316 Stainless Steel, Add	196.67	
			For Aluminum, Add	11.06	
			For Galvanized Steel, Add	38.11	
			For 304 Stainless Steel, Add	175.16	
05 12 23 00-0669	LF		3-1/8" Carbon Steel Rounds, ASTM A108.....	102.55	
			For 316 Stainless Steel, Add	201.02	
			For Aluminum, Add	11.31	
			For Galvanized Steel, Add	38.95	
			For 304 Stainless Steel, Add	179.04	
05 12 23 00-0670	LF		3-1/4" Carbon Steel Rounds, ASTM A108.....	108.56	
			For 316 Stainless Steel, Add	209.22	
			For Aluminum, Add	11.77	
			For Galvanized Steel, Add	40.54	
			For 304 Stainless Steel, Add	186.33	
05 12 23 00-0671	LF		3-1/2" Carbon Steel Rounds, ASTM A108.....	130.46	
			For 316 Stainless Steel, Add	265.47	
			For Aluminum, Add	14.93	
			For Galvanized Steel, Add	51.44	
			For 304 Stainless Steel, Add	236.44	
05 12 23 00-0672	LF		3-5/8" Carbon Steel Rounds, ASTM A108.....	144.62	
			For 316 Stainless Steel, Add	296.96	
			For Aluminum, Add	16.70	
			For Galvanized Steel, Add	57.54	
			For 304 Stainless Steel, Add	264.48	
05 12 23 00-0673	LF		3-3/4" Carbon Steel Rounds, ASTM A108.....	155.40	
			For 316 Stainless Steel, Add	317.66	
			For Aluminum, Add	17.87	
			For Galvanized Steel, Add	61.55	
			For 304 Stainless Steel, Add	282.92	
05 12 23 00-0674	LF		4" Carbon Steel Rounds, ASTM A108.....	173.48	
			For 316 Stainless Steel, Add	361.70	
			For Aluminum, Add	20.35	
			For Galvanized Steel, Add	70.08	
			For 304 Stainless Steel, Add	322.14	
05 12 23 00-0675			Square Stock (05 12 23 00-0437)		
05 12 23 00-0676	LF		3/8" Square Bar Stock.....	1.36	
			For 316 Stainless Steel, Add	1.09	
			For Aluminum, Add	0.06	
			For Galvanized Steel, Add	0.21	
			For 304 Stainless Steel, Add	0.97	
05 12 23 00-0677	LF		1/2" Square Bar Stock.....	1.72	
			For 316 Stainless Steel, Add	1.92	
			For Aluminum, Add	0.11	
			For Galvanized Steel, Add	0.37	
			For 304 Stainless Steel, Add	1.71	
05 12 23 00-0678	LF		5/8" Square Bar Stock.....	2.19	
			For 316 Stainless Steel, Add	3.01	
			For Aluminum, Add	0.17	
			For Galvanized Steel, Add	0.58	
			For 304 Stainless Steel, Add	2.68	
05 12 23 00-0679	LF		3/4" Square Bar Stock.....	2.85	
			For 316 Stainless Steel, Add	4.35	
			For Aluminum, Add	0.24	
			For Galvanized Steel, Add	0.84	
			For 304 Stainless Steel, Add	3.88	
05 12 23 00-0680	LF		7/8" Square Bar Stock.....	3.61	
			For 316 Stainless Steel, Add	6.05	
			For Aluminum, Add	0.34	
			For Galvanized Steel, Add	1.17	
			For 304 Stainless Steel, Add	5.39	
05 12 23 00-0681	LF		1" Square Bar Stock.....	4.45	
			For 316 Stainless Steel, Add	7.74	
			For Aluminum, Add	0.44	
			For Galvanized Steel, Add	1.50	
			For 304 Stainless Steel, Add	6.90	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0682 LF 1-1/4" Square Bar Stock	6.98	
For 316 Stainless Steel, Add	12.10	
For Aluminum, Add	0.68	
For Galvanized Steel, Add	2.34	
For 304 Stainless Steel, Add	10.77	
05 12 23 00-0683 LF 1-1/2" Square Bar Stock	9.92	
For 316 Stainless Steel, Add	17.41	
For Aluminum, Add	0.98	
For Galvanized Steel, Add	3.37	
For 304 Stainless Steel, Add	15.50	
05 12 23 00-0684 LF 1-3/4" Square Bar Stock	15.03	
For 316 Stainless Steel, Add	24.22	
For Aluminum, Add	1.36	
For Galvanized Steel, Add	4.69	
For 304 Stainless Steel, Add	21.57	
05 12 23 00-0685 LF 2" Square Bar Stock	22.21	
For 316 Stainless Steel, Add	30.98	
For Aluminum, Add	1.74	
For Galvanized Steel, Add	6.00	
For 304 Stainless Steel, Add	27.59	
05 12 23 00-0686 Steel Tubing (05 12 23 00-0437)		
Note: General purpose low-carbon steel.		
05 12 23 00-0687 Square Steel Tubing (05 12 23 00-0686)		
05 12 23 00-0688 0.06" Wall Thickness (05 12 23 00-0687)		
05 12 23 00-0689 LF 1/2" x 1/2" x 0.06" Square Steel Tubing	1.53	0.48
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.14	
For >1,000, Deduct	-0.19	
For Galvanized Steel, Add	0.55	
05 12 23 00-0690 LF 3/4" x 3/4" x 0.06" Square Steel Tubing	2.36	0.75
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.22	
For >1,000, Deduct	-0.30	
For Galvanized Steel, Add	0.84	
05 12 23 00-0691 LF 1" x 1" x 0.06" Square Steel Tubing	3.19	1.38
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.30	
For >1,000, Deduct	-0.41	
For Galvanized Steel, Add	1.12	
05 12 23 00-0692 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	4.18	1.31
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.38	
For >1,000, Deduct	-0.53	
For Galvanized Steel, Add	1.51	
05 12 23 00-0693 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	4.97	1.58
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.46	
For >1,000, Deduct	-0.64	
For Galvanized Steel, Add	1.78	
05 12 23 00-0694 0.083" Wall Thickness (05 12 23 00-0687)		
05 12 23 00-0695 LF 3/4" x 3/4" x 0.083" Square Steel Tubing	2.75	0.89
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.26	
For >1,000, Deduct	-0.35	
For Galvanized Steel, Add	0.97	
05 12 23 00-0696 LF 1" x 1" x 0.083" Square Steel Tubing	3.97	1.22
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.50	
For Galvanized Steel, Add	1.46	
05 12 23 00-0697 LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	4.83	1.55
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.62	
For Galvanized Steel, Add	1.72	
05 12 23 00-0698 LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	5.86	1.88
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.54	
For >1,000, Deduct	-0.75	
For Galvanized Steel, Add	2.08	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0699	LF	2" x 2" x 0.083" Square Steel Tubing.....		7.55	2.51
		For >100 To 250, Deduct		-0.25	
		For >250 To 500, Deduct		-0.44	
		For >500 To 1,000, Deduct		-0.71	
		For >1,000, Deduct		-0.98	
		For Galvanized Steel, Add		2.61	
05 12 23 00-0700 0.12" Wall Thickness (05 12 23 00-0687)					
05 12 23 00-0701	LF	1" x 1" x 0.12" Square Steel Tubing.....		4.43	1.45
		For >100 To 250, Deduct		-0.14	
		For >250 To 500, Deduct		-0.26	
		For >500 To 1,000, Deduct		-0.41	
		For >1,000, Deduct		-0.57	
		For Galvanized Steel, Add		1.55	
05 12 23 00-0702	LF	1-1/4" x 1-1/4" x 0.12" Square Steel Tubing		5.71	1.86
		For >100 To 250, Deduct		-0.19	
		For >250 To 500, Deduct		-0.33	
		For >500 To 1,000, Deduct		-0.53	
		For >1,000, Deduct		-0.74	
		For Galvanized Steel, Add		2.00	
05 12 23 00-0703	LF	1-1/2" x 1-1/2" x 0.12" Square Steel Tubing		7.01	2.27
		For >100 To 250, Deduct		-0.23	
		For >250 To 500, Deduct		-0.40	
		For >500 To 1,000, Deduct		-0.65	
		For >1,000, Deduct		-0.90	
		For Galvanized Steel, Add		2.47	
05 12 23 00-0704	LF	2" x 2" x 0.12" Square Steel Tubing.....		9.50	3.09
		For >100 To 250, Deduct		-0.31	
		For >250 To 500, Deduct		-0.55	
		For >500 To 1,000, Deduct		-0.89	
		For >1,000, Deduct		-1.23	
		For Galvanized Steel, Add		3.33	
05 12 23 00-0705 1/8" Wall Thickness (05 12 23 00-0687)					
05 12 23 00-0706	LF	2" x 2" x 1/8" Square Steel Tubing.....		8.76	3.21
		For >100 To 250, Deduct		-0.32	
		For >250 To 500, Deduct		-0.54	
		For >500 To 1,000, Deduct		-0.87	
		For >1,000, Deduct		-1.19	
		For Galvanized Steel, Add		2.77	
05 12 23 00-0707	LF	2-1/2" x 2-1/2" x 1/8" Square Steel Tubing		11.46	4.07
		For >100 To 250, Deduct		-0.41	
		For >250 To 500, Deduct		-0.69	
		For >500 To 1,000, Deduct		-1.12	
		For >1,000, Deduct		-1.54	
		For Galvanized Steel, Add		3.74	
05 12 23 00-0708	LF	3" x 3" x 1/8" Square Steel Tubing.....		13.52	4.92
		For >100 To 250, Deduct		-0.49	
		For >250 To 500, Deduct		-0.83	
		For >500 To 1,000, Deduct		-1.33	
		For >1,000, Deduct		-1.84	
		For Galvanized Steel, Add		4.31	
05 12 23 00-0709	LF	3-1/2" x 3-1/2" x 1/8" Square Steel Tubing		15.70	5.79
		For >100 To 250, Deduct		-0.58	
		For >250 To 500, Deduct		-0.97	
		For >500 To 1,000, Deduct		-1.56	
		For >1,000, Deduct		-2.14	
		For Galvanized Steel, Add		4.95	
05 12 23 00-0710	LF	4" x 4" x 1/8" Square Steel Tubing.....		17.44	6.64
		For >100 To 250, Deduct		-0.66	
		For >250 To 500, Deduct		-1.10	
		For >500 To 1,000, Deduct		-1.76	
		For >1,000, Deduct		-2.42	
		For Galvanized Steel, Add		5.32	
05 12 23 00-0711 3/16" Wall Thickness (05 12 23 00-0687)					
05 12 23 00-0712	LF	2" x 2" x 3/16" Square Steel Tubing.....		9.92	3.62
		For >100 To 250, Deduct		-0.36	
		For >250 To 500, Deduct		-0.61	
		For >500 To 1,000, Deduct		-0.98	
		For >1,000, Deduct		-1.35	
		For Galvanized Steel, Add		3.16	
05 12 23 00-0713	LF	2-1/2" x 2-1/2" x 3/16" Square Steel Tubing		12.84	4.69
		For >100 To 250, Deduct		-0.47	
		For >250 To 500, Deduct		-0.79	
		For >500 To 1,000, Deduct		-1.27	
		For >1,000, Deduct		-1.74	
		For Galvanized Steel, Add		4.09	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0714	LF		3" x 3" x 3/16" Square Steel Tubing.....	15.79	5.77
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.97	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.15	
			For Galvanized Steel, Add	5.02	
05 12 23 00-0715	LF		3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	18.73	6.83
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.85	
			For >1,000, Deduct	-2.54	
			For Galvanized Steel, Add	5.96	
05 12 23 00-0716	LF		4" x 4" x 3/16" Square Steel Tubing.....	21.64	7.90
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.14	
			For >1,000, Deduct	-2.94	
			For Galvanized Steel, Add	6.88	
05 12 23 00-0717	LF		4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	24.57	8.98
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.51	
			For >500 To 1,000, Deduct	-2.42	
			For >1,000, Deduct	-3.34	
			For Galvanized Steel, Add	7.82	
05 12 23 00-0718	LF		5" x 5" x 3/16" Square Steel Tubing.....	27.50	10.04
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.69	
			For >500 To 1,000, Deduct	-2.71	
			For >1,000, Deduct	-3.74	
			For Galvanized Steel, Add	8.75	
05 12 23 00-0719	LF		6" x 6" x 3/16" Square Steel Tubing.....	33.38	12.19
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.05	
			For >500 To 1,000, Deduct	-3.29	
			For >1,000, Deduct	-4.53	
			For Galvanized Steel, Add	10.62	
05 12 23 00-0720			1/4" Wall Thickness (05 12 23 00-0687)		
05 12 23 00-0721	LF		2" x 2" x 1/4" Square Steel Tubing.....	10.47	3.63
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.62	
			For >500 To 1,000, Deduct	-1.01	
			For >1,000, Deduct	-1.39	
			For Galvanized Steel, Add	3.49	
05 12 23 00-0722	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	13.76	4.77
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.82	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000, Deduct	-1.83	
			For Galvanized Steel, Add	4.59	
05 12 23 00-0723	LF		3" x 3" x 1/4" Square Steel Tubing.....	17.04	5.92
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.02	
			For >500 To 1,000, Deduct	-1.64	
			For >1,000, Deduct	-2.26	
			For Galvanized Steel, Add	5.68	
05 12 23 00-0724	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	20.34	7.05
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.70	
			For Galvanized Steel, Add	6.78	
05 12 23 00-0725	LF		4" x 4" x 1/4" Square Steel Tubing.....	23.63	8.19
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.41	
			For >500 To 1,000, Deduct	-2.27	
			For >1,000, Deduct	-3.14	
			For Galvanized Steel, Add	7.87	
05 12 23 00-0726	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	26.92	9.34
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.61	
			For >500 To 1,000, Deduct	-2.59	
			For >1,000, Deduct	-3.58	
			For Galvanized Steel, Add	8.97	
05 12 23 00-0727	LF		5" x 5" x 1/4" Square Steel Tubing.....	30.23	10.49
			For >100 To 250, Deduct	-1.05	
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.91	
			For >1,000, Deduct	-4.01	
			For Galvanized Steel, Add	10.08	



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0728	LF		6" x 6" x 1/4" Square Steel Tubing.....	36.81	12.77
			For >100 To 250, Deduct	-1.28	
			For >250 To 500, Deduct	-2.20	
			For >500 To 1,000, Deduct	-3.54	
			For >1,000, Deduct	-4.89	
			For Galvanized Steel, Add	12.27	
05 12 23 00-0729 Rectangular Steel Tubing (05 12 23 00-0686)					
05 12 23 00-0730 3/16" Wall Thickness (05 12 23 00-0729)					
05 12 23 00-0731	LF		3" x 2" x 3/16" Square Steel Tubing.....	12.84	4.69
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.79	
			For >500 To 1,000, Deduct	-1.27	
			For >1,000, Deduct	-1.74	
			For Galvanized Steel, Add	4.09	
05 12 23 00-0732	LF		4" x 2" x 3/16" Square Steel Tubing.....	15.79	5.77
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.97	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.15	
			For Galvanized Steel, Add	5.02	
05 12 23 00-0733	LF		4" x 3" x 3/16" Square Steel Tubing.....	18.73	6.83
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.85	
			For >1,000, Deduct	-2.54	
			For Galvanized Steel, Add	5.96	
05 12 23 00-0734	LF		5" x 2" x 3/16" Square Steel Tubing.....	18.73	6.83
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.85	
			For >1,000, Deduct	-2.54	
			For Galvanized Steel, Add	5.96	
05 12 23 00-0735	LF		5" x 3" x 3/16" Square Steel Tubing.....	21.64	7.90
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.14	
			For >1,000, Deduct	-2.94	
			For Galvanized Steel, Add	6.88	
05 12 23 00-0736	LF		5" x 4" x 3/16" Square Steel Tubing.....	24.57	8.98
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.51	
			For >500 To 1,000, Deduct	-2.42	
			For >1,000, Deduct	-3.34	
			For Galvanized Steel, Add	7.82	
05 12 23 00-0737	LF		6" x 2" x 3/16" Square Steel Tubing.....	21.64	7.90
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.33	
			For >500 To 1,000, Deduct	-2.14	
			For >1,000, Deduct	-2.94	
			For Galvanized Steel, Add	6.88	
05 12 23 00-0738	LF		6" x 3" x 3/16" Square Steel Tubing.....	24.57	8.98
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.51	
			For >500 To 1,000, Deduct	-2.42	
			For >1,000, Deduct	-3.34	
			For Galvanized Steel, Add	7.82	
05 12 23 00-0739	LF		6" x 4" x 3/16" Square Steel Tubing.....	27.50	10.04
			For >100 To 250, Deduct	-1.00	
			For >250 To 500, Deduct	-1.69	
			For >500 To 1,000, Deduct	-2.71	
			For >1,000, Deduct	-3.74	
			For Galvanized Steel, Add	8.75	
05 12 23 00-0740 1/4" Wall Thickness (05 12 23 00-0729)					
05 12 23 00-0741	LF		3" x 2" x 1/4" Square Steel Tubing.....	13.76	4.77
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.82	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000, Deduct	-1.83	
			For Galvanized Steel, Add	4.59	
05 12 23 00-0742	LF		4" x 2" x 1/4" Square Steel Tubing.....	17.04	5.92
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.02	
			For >500 To 1,000, Deduct	-1.64	
			For >1,000, Deduct	-2.26	
			For Galvanized Steel, Add	5.68	
05 12 23 00-0743	LF		4" x 3" x 1/4" Square Steel Tubing.....	20.34	7.05
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.70	
			For Galvanized Steel, Add	6.78	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0744	LF		5" x 2" x 1/4" Square Steel Tubing	20.34	7.05
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.70	
			For Galvanized Steel, Add	6.78	
05 12 23 00-0745	LF		5" x 3" x 1/4" Square Steel Tubing	23.63	8.19
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.41	
			For >500 To 1,000, Deduct	-2.27	
			For >1,000, Deduct	-3.14	
			For Galvanized Steel, Add	7.87	
05 12 23 00-0746	LF		5" x 4" x 1/4" Square Steel Tubing	26.92	9.34
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.61	
			For >500 To 1,000, Deduct	-2.59	
			For >1,000, Deduct	-3.58	
			For Galvanized Steel, Add	8.97	
05 12 23 00-0747	LF		6" x 2" x 1/4" Square Steel Tubing	23.63	8.19
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.41	
			For >500 To 1,000, Deduct	-2.27	
			For >1,000, Deduct	-3.14	
			For Galvanized Steel, Add	7.87	
05 12 23 00-0748	LF		6" x 3" x 1/4" Square Steel Tubing	26.92	9.34
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.61	
			For >500 To 1,000, Deduct	-2.59	
			For >1,000, Deduct	-3.58	
			For Galvanized Steel, Add	8.97	
05 12 23 00-0749	LF		6" x 4" x 1/4" Square Steel Tubing	30.23	10.49
			For >100 To 250, Deduct	-1.05	
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.91	
			For >1,000, Deduct	-4.01	
			For Galvanized Steel, Add	10.08	
05 12 23 00-0750			Round Steel Tubing (05 12 23 00-0686)		
05 12 23 00-0751			0.065" Wall Thickness (05 12 23 00-0750)		
05 12 23 00-0752	LF		1" Diameter x 0.065" Round Steel Tubing	2.74	0.88
			For >100 To 250, Deduct	-0.09	
			For >250 To 500, Deduct	-0.16	
			For >500 To 1,000, Deduct	-0.25	
			For >1,000, Deduct	-0.35	
			For Galvanized Steel, Add	0.98	
05 12 23 00-0753	LF		1-1/4" Diameter x 0.065" Round Steel Tubing	3.48	1.11
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.20	
			For >500 To 1,000, Deduct	-0.32	
			For >1,000, Deduct	-0.44	
			For Galvanized Steel, Add	1.25	
05 12 23 00-0754	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	4.21	1.34
			For >100 To 250, Deduct	-0.13	
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.39	
			For >1,000, Deduct	-0.54	
			For Galvanized Steel, Add	1.51	
05 12 23 00-0755	LF		2" Diameter x 0.065" Round Steel Tubing	5.67	1.80
			For >100 To 250, Deduct	-0.18	
			For >250 To 500, Deduct	-0.32	
			For >500 To 1,000, Deduct	-0.52	
			For >1,000, Deduct	-0.73	
			For Galvanized Steel, Add	2.03	
05 12 23 00-0756	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	7.15	2.26
			For >100 To 250, Deduct	-0.23	
			For >250 To 500, Deduct	-0.41	
			For >500 To 1,000, Deduct	-0.66	
			For >1,000, Deduct	-0.92	
			For Galvanized Steel, Add	2.55	
05 12 23 00-0757	LF		3" Diameter x 0.065" Round Steel Tubing	8.60	2.74
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.49	
			For >500 To 1,000, Deduct	-0.79	
			For >1,000, Deduct	-1.10	
			For Galvanized Steel, Add	3.08	
05 12 23 00-0758	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	10.08	3.20
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.57	
			For >500 To 1,000, Deduct	-0.93	
			For >1,000, Deduct	-1.29	
			For Galvanized Steel, Add	3.60	



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0759	LF		4" Diameter x 0.065" Round Steel Tubing	11.55	3.66
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.66	
			For >500 To 1,000, Deduct	-1.07	
			For >1,000, Deduct	-1.48	
			For Galvanized Steel, Add	4.13	
05 12 23 00-0760			0.083" Wall Thickness (05 12 23 00-0750)		
05 12 23 00-0761	LF		1" Diameter x 0.083" Round Steel Tubing	2.99	0.96
			For >100 To 250, Deduct	-0.10	
			For >250 To 500, Deduct	-0.17	
			For >500 To 1,000, Deduct	-0.28	
			For >1,000, Deduct	-0.38	
			For Galvanized Steel, Add	1.06	
05 12 23 00-0762	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	3.80	1.22
			For >100 To 250, Deduct	-0.12	
			For >250 To 500, Deduct	-0.22	
			For >500 To 1,000, Deduct	-0.35	
			For >1,000, Deduct	-0.49	
			For Galvanized Steel, Add	1.35	
05 12 23 00-0763	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	4.60	1.48
			For >100 To 250, Deduct	-0.15	
			For >250 To 500, Deduct	-0.26	
			For >500 To 1,000, Deduct	-0.43	
			For >1,000, Deduct	-0.59	
			For Galvanized Steel, Add	1.64	
05 12 23 00-0764	LF		2" Diameter x 0.083" Round Steel Tubing	6.24	1.99
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.36	
			For >500 To 1,000, Deduct	-0.58	
			For >1,000, Deduct	-0.80	
			For Galvanized Steel, Add	2.22	
05 12 23 00-0765	LF		2-1/2" Diameter x 0.083" Round Steel Tubing	7.87	2.52
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.45	
			For >500 To 1,000, Deduct	-0.73	
			For >1,000, Deduct	-1.01	
			For Galvanized Steel, Add	2.80	
05 12 23 00-0766	LF		3" Diameter x 0.083" Round Steel Tubing	9.49	3.04
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.54	
			For >500 To 1,000, Deduct	-0.88	
			For >1,000, Deduct	-1.22	
			For Galvanized Steel, Add	3.37	
05 12 23 00-0767	LF		3-1/2" Diameter x 0.083" Round Steel Tubing	11.12	3.56
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.63	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.43	
			For Galvanized Steel, Add	3.96	
05 12 23 00-0768	LF		4" Diameter x 0.083" Round Steel Tubing	12.74	4.08
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.73	
			For >500 To 1,000, Deduct	-1.18	
			For >1,000, Deduct	-1.63	
			For Galvanized Steel, Add	4.53	
05 12 23 00-0769			0.125" Wall Thickness (05 12 23 00-0750)		
05 12 23 00-0770	LF		2" Diameter x 0.125" Round Steel Tubing	6.87	2.52
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.42	
			For >500 To 1,000, Deduct	-0.68	
			For >1,000, Deduct	-0.94	
			For Galvanized Steel, Add	2.18	
05 12 23 00-0771	LF		2-1/2" Diameter x 0.125" Round Steel Tubing	8.71	3.19
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.54	
			For >500 To 1,000, Deduct	-0.86	
			For >1,000, Deduct	-1.19	
			For Galvanized Steel, Add	2.76	
05 12 23 00-0772	LF		3" Diameter x 0.125" Round Steel Tubing	10.53	3.86
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.65	
			For >500 To 1,000, Deduct	-1.04	
			For >1,000, Deduct	-1.43	
			For Galvanized Steel, Add	3.34	
05 12 23 00-0773	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	12.37	4.54
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.22	
			For >1,000, Deduct	-1.68	
			For Galvanized Steel, Add	3.92	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0774 LF 4" Diameter x 0.125" Round Steel Tubing For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Galvanized Steel, Add	14.19 -0.52 -0.88 -1.40 -1.93 4.50	5.21
05 12 23 00-0775 Flat Steel Bar (05 12 23 00-0437)		
05 12 23 00-0776 1/8" Thick (05 12 23 00-0775)		
05 12 23 00-0777 LF 1/8" Thick x 1" Wide Flat Steel Bar For Galvanized Steel, Add	2.27 0.24	1.25
05 12 23 00-0778 LF 1/8" Thick x 2" Wide Flat Steel Bar For Galvanized Steel, Add	3.47 0.40	1.88
05 12 23 00-0779 LF 1/8" Thick x 4" Wide Flat Steel Bar For Galvanized Steel, Add	5.16 0.74	2.65
05 12 23 00-0780 LF 1/8" Thick x 6" Wide Flat Steel Bar For Galvanized Steel, Add	6.99 0.99	3.60
05 12 23 00-0781 3/16" Thick (05 12 23 00-0775)		
05 12 23 00-0782 LF 3/16" Thick x 1" Wide Flat Steel Bar For Galvanized Steel, Add	2.93 0.37	1.56
05 12 23 00-0783 LF 3/16" Thick x 2" Wide Flat Steel Bar For Galvanized Steel, Add	4.54 0.64	2.33
05 12 23 00-0784 LF 3/16" Thick x 4" Wide Flat Steel Bar For Galvanized Steel, Add	5.76 1.08	2.69
05 12 23 00-0785 LF 3/16" Thick x 6" Wide Flat Steel Bar For Galvanized Steel, Add	7.99 1.49	3.72
05 12 23 00-0786 1/4" Thick (05 12 23 00-0775)		
05 12 23 00-0787 LF 1/4" Thick x 1" Wide Flat Steel Bar For Galvanized Steel, Add	3.06 0.37	1.65
05 12 23 00-0788 LF 1/4" Thick x 2" Wide Flat Steel Bar For Galvanized Steel, Add	4.89 0.74	2.47
05 12 23 00-0789 LF 1/4" Thick x 4" Wide Flat Steel Bar For Galvanized Steel, Add	6.55 1.43	2.82
05 12 23 00-0790 LF 1/4" Thick x 6" Wide Flat Steel Bar For Galvanized Steel, Add	9.55 2.03	4.17
05 12 23 00-0791 3/8" Thick (05 12 23 00-0775)		
05 12 23 00-0792 LF 3/8" Thick x 1" Wide Flat Steel Bar For Galvanized Steel, Add	3.72 0.58	1.85
05 12 23 00-0793 LF 3/8" Thick x 2" Wide Flat Steel Bar For Galvanized Steel, Add	5.88 1.06	2.78
05 12 23 00-0794 LF 3/8" Thick x 4" Wide Flat Steel Bar For Galvanized Steel, Add	8.18 2.12	3.17
05 12 23 00-0795 LF 3/8" Thick x 6" Wide Flat Steel Bar For Galvanized Steel, Add	11.86 2.98	4.69
05 12 23 00-0796 1/2" Thick (05 12 23 00-0775)		
05 12 23 00-0797 LF 1/2" Thick x 1" Wide Flat Steel Bar For Galvanized Steel, Add	4.25 0.74	2.03
05 12 23 00-0798 LF 1/2" Thick x 2" Wide Flat Steel Bar For Galvanized Steel, Add	6.77 1.35	3.06
05 12 23 00-0799 LF 1/2" Thick x 4" Wide Flat Steel Bar For Galvanized Steel, Add	8.95 2.31	3.48
05 12 23 00-0800 LF 1/2" Thick x 6" Wide Flat Steel Bar For Galvanized Steel, Add	15.17 4.60	5.16
05 12 23 00-0801 Flat Steel Plate (05 12 23 00-0437)		
05 12 23 00-0802 SF 1/8" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	10.90 8.96 0.50 1.74 7.98	5.39
05 12 23 00-0803 SF 3/16" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	11.88 11.20 0.63 2.17 9.98	5.58
05 12 23 00-0804 SF 1/4" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	13.86 14.27 0.80 2.77 12.71	6.26



		Metals	05	05
		Structural Metal Framing	05 10	
		Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0805 SF 3/8" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	17.58 22.43 1.26 4.35 19.98	7.04
05 12 23 00-0806 SF 1/2" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	20.35 27.94 1.57 5.41 24.88	7.74
05 12 23 00-0807 SF 3/4" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	30.90 52.38 2.95 10.15 46.65	9.59
05 12 23 00-0808 SF 1" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	40.57 71.71 4.03 13.89 63.87	11.98

05 13 Structural Stainless-Steel Framing (05 10)

05 13 00 00-0001 Stainless Steel Tube (05 13)

05 13 00 00-0002 LF 1" x 1" Stainless Steel Tube.....	24.01	
05 13 00 00-0003 LF 1-1/2" x 1-1/2" Stainless Steel Tube	31.14	
05 13 00 00-0004 LF 2" x 2" Stainless Steel Tube.....	41.20	

05 14 Structural Aluminum Framing (05 10)

05 14 16 Structural Aluminum Framing (05 14)

05 14 16 00-0001 Rolled Or Plate Shapes (05 14 16)

Note: 1" through 10" member.

05 14 16 00-0002 LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	7.75	4.11
05 14 16 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members.....	7.50	2.77

05 14 16 00-0004 Aluminum Extrusions (05 14 16)

05 14 16 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	6.91	2.77
05 14 16 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members.....	7.14	2.77

05 14 16 00-0007 Aluminum Tubing (05 14 16)

05 14 16 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	8.36	3.02
05 14 16 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	11.06	4.92
05 14 16 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness.....	12.44	5.37
05 14 16 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness.....	14.45	6.27
05 14 16 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	15.98	6.71
05 14 16 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	28.81	8.50
05 14 16 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	24.62	7.61

05 14 16 00-0015 Columns (05 14 16)

Note: Baked on paint finish, load bearing.

05 14 16 00-0016 Round Columns (05 14 16 00-0015)

05 14 16 00-0017 LF 6" Diameter Aluminum Column.....	22.39	5.78
05 14 16 00-0018 LF 8" Diameter Aluminum Column.....	29.74	8.29
05 14 16 00-0019 LF 10" Diameter Aluminum Column.....	35.22	9.33
05 14 16 00-0020 LF 12" Diameter Aluminum Column.....	47.26	9.76
05 14 16 00-0021 LF 15" Diameter Aluminum Column.....	58.82	11.31
05 14 16 00-0022 EA 6" Diameter Aluminum Base And Cap	41.67	10.79
05 14 16 00-0023 EA 8" Diameter Aluminum Base And Cap	46.78	11.66
05 14 16 00-0024 EA 10" Diameter Aluminum Base And Cap	56.74	12.96
05 14 16 00-0025 EA 12" Diameter Aluminum Base And Cap	86.89	13.82
05 14 16 00-0026 EA 15" Diameter Aluminum Base And Cap	125.17	15.11

05 14 16 00-0027 Octagonal Columns (05 14 16 00-0015)

05 14 16 00-0028 LF 6" Diameter Aluminum Column.....	23.31	5.78
05 14 16 00-0029 LF 8" Diameter Aluminum Column.....	32.37	8.29
05 14 16 00-0030 LF 10" Diameter Aluminum Column.....	38.53	9.33
05 14 16 00-0031 LF 12" Diameter Aluminum Column.....	52.82	9.76
05 14 16 00-0032 LF 15" Diameter Aluminum Column.....	66.08	11.31
05 14 16 00-0033 EA 6" Diameter Aluminum Base And Cap	45.68	10.79
05 14 16 00-0034 EA 8" Diameter Aluminum Base And Cap	51.48	11.66
05 14 16 00-0035 EA 10" Diameter Aluminum Base And Cap	62.91	12.96
05 14 16 00-0036 EA 12" Diameter Aluminum Base And Cap	98.75	13.82
05 14 16 00-0037 EA 15" Diameter Aluminum Base And Cap	144.16	15.11

05 Metals**05 10 Structural Metal Framing****05 14 Structural Aluminum Framing**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
05 14 16 00-0038	Fluted Columns (05 14 16 00-0015)				
05 14 16 00-0039	LF 6" Diameter Aluminum Column.....	25.08		5.78	
05 14 16 00-0040	LF 8" Diameter Aluminum Column.....	34.73		8.29	
05 14 16 00-0041	LF 10" Diameter Aluminum Column.....	41.52		9.33	
05 14 16 00-0042	LF 12" Diameter Aluminum Column.....	57.83		9.76	
05 14 16 00-0043	LF 15" Diameter Aluminum Column.....	72.61		11.31	
05 14 16 00-0044	EA 6" Diameter Aluminum Base And Cap.....	49.30		10.79	
05 14 16 00-0045	EA 8" Diameter Aluminum Base And Cap.....	55.70		11.66	
05 14 16 00-0046	EA 10" Diameter Aluminum Base And Cap.....	68.46		12.96	
05 14 16 00-0047	EA 12" Diameter Aluminum Base And Cap.....	109.41		13.82	
05 14 16 00-0048	EA 15" Diameter Aluminum Base And Cap.....	161.25		15.11	
05 14 16 00-0049	Square Columns (05 14 16 00-0015)				
05 14 16 00-0050	LF 6" Aluminum Column.....	26.30		5.78	
05 14 16 00-0051	LF 8" Aluminum Column.....	36.34		8.29	
05 14 16 00-0052	LF 10" Aluminum Column.....	43.56		9.33	
05 14 16 00-0053	LF 12" Aluminum Column.....	61.25		9.76	
05 14 16 00-0054	LF 15" Aluminum Column.....	77.08		11.31	
05 14 16 00-0055	EA 6" Aluminum Base And Cap.....	51.77		10.79	
05 14 16 00-0056	EA 8" Aluminum Base And Cap.....	58.59		11.66	
05 14 16 00-0057	EA 10" Aluminum Base And Cap.....	72.26		12.96	
05 14 16 00-0058	EA 12" Aluminum Base And Cap.....	116.71		13.82	
05 14 16 00-0059	EA 15" Aluminum Base And Cap.....	172.94		15.11	
05 14 16 00-0060	Ornamental Or Decorative Cap And Bases (05 14 16 00-0015)				
05 14 16 00-0061	EA 8" Corinthian Capital And Base.....	230.30		12.96	
05 14 16 00-0062	EA 10" Corinthian Capital And Base.....	333.77		15.11	
05 14 16 00-0063	EA 12" Corinthian Capital And Base.....	519.34		17.27	
05 14 16 00-0064	EA 8" Scamozzi Capital And Base.....	122.86		12.96	
05 14 16 00-0065	EA 10" Scamozzi Capital And Base.....	161.69		15.11	
05 14 16 00-0066	EA 12" Scamozzi Capital And Base.....	308.13		17.27	
05 15	Wire Rope Assemblies (05 15)				
05 15 16	Steel Wire Rope Assemblies (05 15)				
Note: IWRC = Independent Wire Rope Center; IPS = Improved Plow Steel; XIP = Extra Improved Plow Steel.					
05 15 16 00-0001	6x7 Class Bright, Improved Plow Steel (IPS), Fiber Core (05 15 16)				
05 15 16 00-0002	LF 1/16" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core.....	0.32		0.06	
	For 7x7 Strand Core, Add.....	0.01			
	For <100, Add.....	0.09			
	For >500 To 1,000, Deduct.....	-0.02			
	For >1,000 To 2,000, Deduct.....	-0.02			
	For >2,000, Deduct.....	-0.03			
05 15 16 00-0003	LF 3/32" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core.....	0.36		0.07	
	For 7x7 Strand Core, Add.....	0.01			
	For <100, Add.....	0.10			
	For >500 To 1,000, Deduct.....	-0.02			
	For >1,000 To 2,000, Deduct.....	-0.03			
	For >2,000, Deduct.....	-0.04			
05 15 16 00-0004	LF 1/8" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core.....	0.47		0.08	
	For 7x7 Strand Core, Add.....	0.02			
	For <100, Add.....	0.13			
	For >500 To 1,000, Deduct.....	-0.02			
	For >1,000 To 2,000, Deduct.....	-0.04			
	For >2,000, Deduct.....	-0.05			
05 15 16 00-0005	LF 5/32" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core.....	0.51		0.09	
	For 7x7 Strand Core, Add.....	0.02			
	For <100, Add.....	0.14			
	For >500 To 1,000, Deduct.....	-0.03			
	For >1,000 To 2,000, Deduct.....	-0.04			
	For >2,000, Deduct.....	-0.05			
05 15 16 00-0006	LF 3/16" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core.....	0.73		0.09	
	For 7x7 Strand Core, Add.....	0.03			
	For <100, Add.....	0.21			
	For >500 To 1,000, Deduct.....	-0.04			
	For >1,000 To 2,000, Deduct.....	-0.05			
	For >2,000, Deduct.....	-0.07			
05 15 16 00-0007	LF 1/4" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core.....	0.95		0.09	
	For 7x7 Strand Core, Add.....	0.04			
	For <100, Add.....	0.29			
	For >500 To 1,000, Deduct.....	-0.05			
	For >1,000 To 2,000, Deduct.....	-0.07			
	For >2,000, Deduct.....	-0.10			



			Metals	05	05
			Structural Metal Framing	05 10	
			Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0008	LF		5/16" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	1.20 0.05 0.37 -0.06 -0.09 -0.12	0.09
05 15 16 00-0009	LF		3/8" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	1.52 0.06 0.46 -0.08 -0.11 -0.15	0.09
05 15 16 00-0010	LF		7/16" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	1.89 0.07 0.56 -0.09 -0.14 -0.19	0.18
05 15 16 00-0011	LF		1/2" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	2.23 0.08 0.65 -0.11 -0.17 -0.22	0.18
05 15 16 00-0012	LF		9/16" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	2.72 0.09 0.78 -0.14 -0.20 -0.27	0.27
05 15 16 00-0013	LF		5/8" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	3.13 0.10 0.88 -0.16 -0.23 -0.31	0.36
05 15 16 00-0014	LF		3/4" Diameter 6x7 Class Bright Wire Rope IPS, Fiber Core For 7x7 Strand Core, Add For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	4.21 0.14 1.17 -0.21 -0.32 -0.42	0.44
05 15 16 00-0015			8x19 Class Bright, Improved Plow Steel (IPS), Fiber Core (05 15 16)		
05 15 16 00-0016	LF		3/16" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	1.05 0.32 -0.05 -0.08 -0.11	0.09
05 15 16 00-0017	LF		1/4" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	1.56 0.50 -0.08 -0.12 -0.16	0.09
05 15 16 00-0018	LF		5/16" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	1.80 0.58 -0.09 -0.14 -0.18	0.09
05 15 16 00-0019	LF		3/8" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	2.11 0.66 -0.11 -0.16 -0.21	0.09
05 15 16 00-0020	LF		7/16" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	2.51 0.77 -0.13 -0.19 -0.25	0.18
05 15 16 00-0021	LF		1/2" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	2.89 0.87 -0.14 -0.22 -0.29	0.18
05 15 16 00-0022	LF		9/16" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	3.42 1.02 -0.17 -0.26 -0.34	0.27
05 15 16 00-0023	LF		5/8" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core For <100, Add For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000, Deduct	4.12 1.22 -0.21 -0.31 -0.41	0.36

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0024	LF		3/4" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core.....	5.77	0.44
			For <100, Add	1.71	
			For >500 To 1,000, Deduct	-0.29	
			For >1,000 To 2,000, Deduct	-0.43	
			For >2,000, Deduct	-0.58	
05 15 16 00-0025	LF		7/8" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core.....	7.67	0.62
			For <100, Add	2.25	
			For >500 To 1,000, Deduct	-0.38	
			For >1,000 To 2,000, Deduct	-0.58	
			For >2,000, Deduct	-0.77	
05 15 16 00-0026	LF		1" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core.....	9.65	0.90
			For <100, Add	2.81	
			For >500 To 1,000, Deduct	-0.48	
			For >1,000 To 2,000, Deduct	-0.72	
			For >2,000, Deduct	-0.97	
05 15 16 00-0027	LF		1-1/8" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core	7.15	1.08
			For <100, Add	1.79	
			For >500 To 1,000, Deduct	-0.36	
			For >1,000 To 2,000, Deduct	-0.54	
			For >2,000, Deduct	-0.72	
05 15 16 00-0028	LF		1-1/4" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core	14.59	1.34
			For <100, Add	4.21	
			For >500 To 1,000, Deduct	-0.73	
			For >1,000 To 2,000, Deduct	-1.09	
			For >2,000, Deduct	-1.46	
05 15 16 00-0029	LF		1-3/8" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core	17.53	1.61
			For <100, Add	5.07	
			For >500 To 1,000, Deduct	-0.88	
			For >1,000 To 2,000, Deduct	-1.31	
			For >2,000, Deduct	-1.75	
05 15 16 00-0030	LF		1-1/2" Diameter 8x19 Bright Class Wire Rope IPS, Fiber Core	20.84	1.97
			For <100, Add	6.02	
			For >500 To 1,000, Deduct	-1.04	
			For >1,000 To 2,000, Deduct	-1.56	
			For >2,000, Deduct	-2.08	

05 15 16 00-0031 6x19 Class Bright, Improved Plow Steel (IPS), Independent Wire Rope Core (IWRC) (05 15 16)

05 15 16 00-0032	LF		1/4" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	1.49	0.09
			For <100, Add	0.48	
			For >500 To 1,000, Deduct	-0.07	
			For >1,000 To 2,000, Deduct	-0.11	
			For >2,000, Deduct	-0.15	
			For 7x19 Strand Core, Add	0.26	
			For Heavy Duty IWRC Rating, Add	0.32	
			For 7x19 Galvanized, Add	0.70	
05 15 16 00-0033	LF		5/16" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	1.76	0.09
			For <100, Add	0.55	
			For >500 To 1,000, Deduct	-0.09	
			For >1,000 To 2,000, Deduct	-0.13	
			For >2,000, Deduct	-0.18	
			For 7x19 Strand Core, Add	0.29	
			For Heavy Duty IWRC Rating, Add	0.36	
			For 7x19 Galvanized, Add	0.79	
05 15 16 00-0034	LF		3/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	2.12	0.18
			For <100, Add	0.65	
			For >500 To 1,000, Deduct	-0.11	
			For >1,000 To 2,000, Deduct	-0.16	
			For >2,000, Deduct	-0.21	
			For 7x19 Strand Core, Add	0.33	
			For Heavy Duty IWRC Rating, Add	0.42	
			For 7x19 Galvanized, Add	0.91	
05 15 16 00-0035	LF		7/16" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	2.50	0.18
			For <100, Add	0.75	
			For >500 To 1,000, Deduct	-0.13	
			For >1,000 To 2,000, Deduct	-0.19	
			For >2,000, Deduct	-0.25	
			For 7x19 Strand Core, Add	0.38	
			For Heavy Duty IWRC Rating, Add	0.47	
			For 7x19 Galvanized, Add	1.03	
05 15 16 00-0036	LF		1/2" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	2.94	0.27
			For <100, Add	0.86	
			For >500 To 1,000, Deduct	-0.15	
			For >1,000 To 2,000, Deduct	-0.22	
			For >2,000, Deduct	-0.29	
			For 7x19 Strand Core, Add	0.42	
			For Heavy Duty IWRC Rating, Add	0.53	
			For 7x19 Galvanized, Add	1.16	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0037 LF 9/16" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	3.48	0.36
For <100, Add	1.01	
For >500 To 1,000, Deduct	-0.17	
For >1,000 To 2,000, Deduct	-0.26	
For >2,000, Deduct	-0.35	
For 7x19 Strand Core, Add	0.48	
For Heavy Duty IWRC Rating, Add	0.61	
For 7x19 Galvanized, Add	1.33	
05 15 16 00-0038 LF 5/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	4.01	0.36
For <100, Add	1.14	
For >500 To 1,000, Deduct	-0.20	
For >1,000 To 2,000, Deduct	-0.30	
For >2,000, Deduct	-0.40	
For 7x19 Strand Core, Add	0.54	
For Heavy Duty IWRC Rating, Add	0.68	
For 7x19 Galvanized, Add	1.49	
05 15 16 00-0039 LF 3/4" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	5.68	0.62
For <100, Add	1.61	
For >500 To 1,000, Deduct	-0.28	
For >1,000 To 2,000, Deduct	-0.43	
For >2,000, Deduct	-0.57	
For 7x19 Strand Core, Add	0.76	
For Heavy Duty IWRC Rating, Add	0.95	
For 7x19 Galvanized, Add	2.09	
05 15 16 00-0040 LF 7/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	7.51	0.71
For <100, Add	2.12	
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 2,000, Deduct	-0.56	
For >2,000, Deduct	-0.75	
For 7x19 Strand Core, Add	0.99	
For Heavy Duty IWRC Rating, Add	1.24	
For 7x19 Galvanized, Add	2.72	
05 15 16 00-0041 LF 1" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	9.47	0.99
For <100, Add	2.64	
For >500 To 1,000, Deduct	-0.47	
For >1,000 To 2,000, Deduct	-0.71	
For >2,000, Deduct	-0.95	
For 7x19 Strand Core, Add	1.22	
For Heavy Duty IWRC Rating, Add	1.52	
For 7x19 Galvanized, Add	3.35	
05 15 16 00-0042 LF 1-1/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	11.73	1.25
For <100, Add	3.27	
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 2,000, Deduct	-0.88	
For >2,000, Deduct	-1.17	
For 7x19 Strand Core, Add	1.51	
For Heavy Duty IWRC Rating, Add	1.88	
For 7x19 Galvanized, Add	4.14	
05 15 16 00-0043 LF 1-1/4" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	13.98	1.52
For <100, Add	3.87	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 2,000, Deduct	-1.05	
For >2,000, Deduct	-1.40	
For 7x19 Strand Core, Add	1.77	
For Heavy Duty IWRC Rating, Add	2.22	
For 7x19 Galvanized, Add	4.88	
05 15 16 00-0044 LF 1-3/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	16.97	1.88
For <100, Add	4.68	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.27	
For >2,000, Deduct	-1.70	
For 7x19 Strand Core, Add	2.14	
For Heavy Duty IWRC Rating, Add	2.67	
For 7x19 Galvanized, Add	5.88	
05 15 16 00-0045 LF 1-1/2" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	20.13	2.23
For <100, Add	5.55	
For >500 To 1,000, Deduct	-1.01	
For >1,000 To 2,000, Deduct	-1.51	
For >2,000, Deduct	-2.01	
For 7x19 Strand Core, Add	2.53	
For Heavy Duty IWRC Rating, Add	3.17	
For 7x19 Galvanized, Add	6.97	
05 15 16 00-0046 LF 1-5/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	23.95	2.60
For <100, Add	6.64	
For >500 To 1,000, Deduct	-1.20	
For >1,000 To 2,000, Deduct	-1.80	
For >2,000, Deduct	-2.40	
For 7x19 Strand Core, Add	3.04	
For Heavy Duty IWRC Rating, Add	3.81	
For 7x19 Galvanized, Add	8.37	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0047 LF 1-3/4" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	32.05	4.31
For <100, Add	8.38	
For >500 To 1,000, Deduct	-1.60	
For >1,000 To 2,000, Deduct	-2.40	
For >2,000, Deduct	-3.21	
For 7x19 Strand Core, Add	3.57	
For Heavy Duty IWRC Rating, Add	4.47	
For 7x19 Galvanized, Add	9.83	
05 15 16 00-0048 LF 1-7/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	36.82	4.87
For <100, Add	9.63	
For >500 To 1,000, Deduct	-1.84	
For >1,000 To 2,000, Deduct	-2.76	
For >2,000, Deduct	-3.68	
For 7x19 Strand Core, Add	4.11	
For Heavy Duty IWRC Rating, Add	5.14	
For 7x19 Galvanized, Add	11.30	
05 15 16 00-0049 LF 2" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	42.29	5.62
For <100, Add	11.06	
For >500 To 1,000, Deduct	-2.11	
For >1,000 To 2,000, Deduct	-3.17	
For >2,000, Deduct	-4.23	
For 7x19 Strand Core, Add	4.72	
For Heavy Duty IWRC Rating, Add	5.90	
For 7x19 Galvanized, Add	12.97	
05 15 16 00-0050 LF 2-1/8" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	47.62	6.27
For <100, Add	12.51	
For >500 To 1,000, Deduct	-2.38	
For >1,000 To 2,000, Deduct	-3.57	
For >2,000, Deduct	-4.76	
For 7x19 Strand Core, Add	5.37	
For Heavy Duty IWRC Rating, Add	6.71	
For 7x19 Galvanized, Add	14.76	
05 15 16 00-0051 LF 2-1/4" Diameter 6x19 Class Bright Wire Rope IPS, IWRC.....	53.99	7.02
For <100, Add	14.22	
For >500 To 1,000, Deduct	-2.70	
For >1,000 To 2,000, Deduct	-4.05	
For >2,000, Deduct	-5.40	
For 7x19 Strand Core, Add	6.12	
For Heavy Duty IWRC Rating, Add	7.65	
For 7x19 Galvanized, Add	16.83	
05 15 16 00-0052 6x37 Class Bright, Improved Plow Steel (IPS), Independent Wire Rope Core (IWRC) (05 15 16)		
05 15 16 00-0053 LF 1/4" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	1.87	0.09
For <100, Add	0.61	
For >500 To 1,000, Deduct	-0.09	
For >1,000 To 2,000, Deduct	-0.14	
For >2,000, Deduct	-0.19	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.05	
05 15 16 00-0054 LF 5/16" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	2.23	0.09
For <100, Add	0.72	
For >500 To 1,000, Deduct	-0.11	
For >1,000 To 2,000, Deduct	-0.17	
For >2,000, Deduct	-0.22	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.05	
05 15 16 00-0055 LF 3/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	2.69	0.18
For <100, Add	0.85	
For >500 To 1,000, Deduct	-0.13	
For >1,000 To 2,000, Deduct	-0.20	
For >2,000, Deduct	-0.27	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.06	
05 15 16 00-0056 LF 7/16" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	3.11	0.18
For <100, Add	0.96	
For >500 To 1,000, Deduct	-0.16	
For >1,000 To 2,000, Deduct	-0.23	
For >2,000, Deduct	-0.31	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.07	
05 15 16 00-0057 LF 1/2" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	3.64	0.27
For <100, Add	1.11	
For >500 To 1,000, Deduct	-0.18	
For >1,000 To 2,000, Deduct	-0.27	
For >2,000, Deduct	-0.36	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.09	
05 15 16 00-0058 LF 9/16" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	4.22	0.36
For <100, Add	1.27	
For >500 To 1,000, Deduct	-0.21	
For >1,000 To 2,000, Deduct	-0.32	
For >2,000, Deduct	-0.42	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.10	
05 15 16 00-0059 LF 5/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	4.81	0.36
For <100, Add	1.42	
For >500 To 1,000, Deduct	-0.24	
For >1,000 To 2,000, Deduct	-0.36	
For >2,000, Deduct	-0.48	
For Extra Improved Plow Steel (XIPS) Wire, Add	0.11	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0060	LF		3/4" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	6.44	0.62
			For <100, Add	1.88	
			For >500 To 1,000, Deduct	-0.32	
			For >1,000 To 2,000, Deduct	-0.48	
			For >2,000, Deduct	-0.64	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.15	
05 15 16 00-0061	LF		7/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	8.33	0.71
			For <100, Add	2.40	
			For >500 To 1,000, Deduct	-0.42	
			For >1,000 To 2,000, Deduct	-0.62	
			For >2,000, Deduct	-0.83	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.20	
05 15 16 00-0062	LF		1" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	10.49	0.99
			For <100, Add	3.01	
			For >500 To 1,000, Deduct	-0.52	
			For >1,000 To 2,000, Deduct	-0.79	
			For >2,000, Deduct	-1.05	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.25	
05 15 16 00-0063	LF		1-1/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	13.03	1.25
			For <100, Add	3.71	
			For >500 To 1,000, Deduct	-0.65	
			For >1,000 To 2,000, Deduct	-0.98	
			For >2,000, Deduct	-1.30	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.30	
05 15 16 00-0064	LF		1-1/4" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	15.54	1.52
			For <100, Add	4.42	
			For >500 To 1,000, Deduct	-0.78	
			For >1,000 To 2,000, Deduct	-1.17	
			For >2,000, Deduct	-1.55	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.36	
05 15 16 00-0065	LF		1-3/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	18.44	1.88
			For <100, Add	5.20	
			For >500 To 1,000, Deduct	-0.92	
			For >1,000 To 2,000, Deduct	-1.38	
			For >2,000, Deduct	-1.84	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.43	
05 15 16 00-0066	LF		1-1/2" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	21.94	2.23
			For <100, Add	6.19	
			For >500 To 1,000, Deduct	-1.10	
			For >1,000 To 2,000, Deduct	-1.65	
			For >2,000, Deduct	-2.19	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.51	
05 15 16 00-0067	LF		1-5/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	26.34	2.69
			For <100, Add	7.43	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000 To 2,000, Deduct	-1.98	
			For >2,000, Deduct	-2.63	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.61	
05 15 16 00-0068	LF		1-3/4" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	35.00	4.31
			For <100, Add	9.37	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000 To 2,000, Deduct	-2.63	
			For >2,000, Deduct	-3.50	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.80	
05 15 16 00-0069	LF		1-7/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	40.45	4.87
			For <100, Add	10.90	
			For >500 To 1,000, Deduct	-2.02	
			For >1,000 To 2,000, Deduct	-3.03	
			For >2,000, Deduct	-4.05	
			For Extra Improved Plow Steel (XIPS) Wire, Add	0.93	
05 15 16 00-0070	LF		2" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	46.15	5.62
			For <100, Add	12.41	
			For >500 To 1,000, Deduct	-2.31	
			For >1,000 To 2,000, Deduct	-3.46	
			For >2,000, Deduct	-4.62	
			For Extra Improved Plow Steel (XIPS) Wire, Add	1.06	
05 15 16 00-0071	LF		2-1/8" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	52.02	6.27
			For <100, Add	14.05	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000 To 2,000, Deduct	-3.90	
			For >2,000, Deduct	-5.20	
			For Extra Improved Plow Steel (XIPS) Wire, Add	1.20	
05 15 16 00-0072	LF		2-1/4" Diameter 6x37 Class Bright Wire Rope IPS, IWRC.....	58.71	7.02
			For <100, Add	15.87	
			For >500 To 1,000, Deduct	-2.94	
			For >1,000 To 2,000, Deduct	-4.40	
			For >2,000, Deduct	-5.87	
			For Extra Improved Plow Steel (XIPS) Wire, Add	1.35	
05 15 16 00-0073			6x19 And 6x37 Swaged Wire Rope (05 15 16)		
05 15 16 00-0074	LF		1/2" Diameter 6x19 And 6x37 Swaged Wire Rope	5.13	0.36
			For <100, Add	1.56	
			For >500 To 1,000, Deduct	-0.26	
			For >1,000 To 2,000, Deduct	-0.38	
			For >2,000, Deduct	-0.51	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0075	LF		9/16" Diameter 6x19 And 6x37 Swaged Wire Rope	5.76	0.36
			For <100, Add	1.76	
			For >500 To 1,000, Deduct	-0.29	
			For >1,000 To 2,000, Deduct	-0.43	
			For >2,000, Deduct	-0.58	
05 15 16 00-0076	LF		5/8" Diameter 6x19 And 6x37 Swaged Wire Rope	7.12	0.44
			For <100, Add	2.18	
			For >500 To 1,000, Deduct	-0.36	
			For >1,000 To 2,000, Deduct	-0.53	
			For >2,000, Deduct	-0.71	
05 15 16 00-0077	LF		3/4" Diameter 6x19 And 6x37 Swaged Wire Rope	8.80	0.71
			For <100, Add	2.63	
			For >500 To 1,000, Deduct	-0.44	
			For >1,000 To 2,000, Deduct	-0.66	
			For >2,000, Deduct	-0.88	
05 15 16 00-0078	LF		7/8" Diameter 6x19 And 6x37 Swaged Wire Rope	10.96	0.90
			For <100, Add	3.24	
			For >500 To 1,000, Deduct	-0.55	
			For >1,000 To 2,000, Deduct	-0.82	
			For >2,000, Deduct	-1.10	
05 15 16 00-0079	LF		1" Diameter 6x19 And 6x37 Swaged Wire Rope	13.57	1.17
			For <100, Add	3.96	
			For >500 To 1,000, Deduct	-0.68	
			For >1,000 To 2,000, Deduct	-1.02	
			For >2,000, Deduct	-1.36	
05 15 16 00-0080	LF		1-1/8" Diameter 6x19 And 6x37 Swaged Wire Rope	17.07	1.52
			For <100, Add	4.97	
			For >500 To 1,000, Deduct	-0.85	
			For >1,000 To 2,000, Deduct	-1.28	
			For >2,000, Deduct	-1.71	
05 15 16 00-0081	LF		1-1/4" Diameter 6x19 And 6x37 Swaged Wire Rope	20.42	1.88
			For <100, Add	5.90	
			For >500 To 1,000, Deduct	-1.02	
			For >1,000 To 2,000, Deduct	-1.53	
			For >2,000, Deduct	-2.04	
05 15 16 00-0082	LF		1-3/8" Diameter 6x19 And 6x37 Swaged Wire Rope	23.98	2.23
			For <100, Add	6.89	
			For >500 To 1,000, Deduct	-1.20	
			For >1,000 To 2,000, Deduct	-1.80	
			For >2,000, Deduct	-2.40	
05 15 16 00-0083	LF		1-1/2" Diameter 6x19 And 6x37 Swaged Wire Rope	32.32	3.74
			For <100, Add	8.82	
			For >500 To 1,000, Deduct	-1.62	
			For >1,000 To 2,000, Deduct	-2.42	
			For >2,000, Deduct	-3.23	
05 15 16 00-0084			Flattened Strand Wire Rope, Improved Plow Steel (IPS), Fiber Core (05 15 16)		
05 15 16 00-0085	LF		5/8" Diameter Flattened Strand Wire Rope IPS, Fiber Core	6.59	0.36
			For <100, Add	2.05	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000 To 2,000, Deduct	-0.49	
			For >2,000, Deduct	-0.66	
05 15 16 00-0086	LF		3/4" Diameter Flattened Strand Wire Rope IPS, Fiber Core	8.92	0.53
			For <100, Add	2.76	
			For >500 To 1,000, Deduct	-0.45	
			For >1,000 To 2,000, Deduct	-0.67	
			For >2,000, Deduct	-0.89	
05 15 16 00-0087	LF		7/8" Diameter Flattened Strand Wire Rope IPS, Fiber Core	11.30	0.71
			For <100, Add	3.46	
			For >500 To 1,000, Deduct	-0.57	
			For >1,000 To 2,000, Deduct	-0.85	
			For >2,000, Deduct	-1.13	
05 15 16 00-0088	LF		1" Diameter Flattened Strand Wire Rope IPS, Fiber Core	13.84	0.99
			For <100, Add	4.20	
			For >500 To 1,000, Deduct	-0.69	
			For >1,000 To 2,000, Deduct	-1.04	
			For >2,000, Deduct	-1.38	
05 15 16 00-0089	LF		1-1/8" Diameter Flattened Strand Wire Rope IPS, Fiber Core	16.79	1.25
			For <100, Add	5.05	
			For >500 To 1,000, Deduct	-0.84	
			For >1,000 To 2,000, Deduct	-1.26	
			For >2,000, Deduct	-1.68	
05 15 16 00-0090	LF		1-1/4" Diameter Flattened Strand Wire Rope IPS, Fiber Core	20.32	1.52
			For <100, Add	6.10	
			For >500 To 1,000, Deduct	-1.02	
			For >1,000 To 2,000, Deduct	-1.52	
			For >2,000, Deduct	-2.03	
05 15 16 00-0091	LF		1-3/8" Diameter Flattened Strand Wire Rope IPS, Fiber Core	24.51	1.79
			For <100, Add	7.36	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000 To 2,000, Deduct	-1.84	
			For >2,000, Deduct	-2.45	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0092	LF		1-1/2" Diameter Flattened Strand Wire Rope IPS, Fiber Core.....	30.03	2.23
			For <100, Add	9.05	
			For >500 To 1,000, Deduct	-1.50	
			For >1,000 To 2,000, Deduct	-2.25	
			For >2,000, Deduct	-3.00	
05 15 16 00-0093	LF		1-5/8" Diameter Flattened Strand Wire Rope IPS, Fiber Core.....	35.83	2.60
			For <100, Add	10.84	
			For >500 To 1,000, Deduct	-1.79	
			For >1,000 To 2,000, Deduct	-2.69	
			For >2,000, Deduct	-3.58	
05 15 16 00-0094	LF		1-3/4" Diameter Flattened Strand Wire Rope IPS, Fiber Core.....	45.93	4.12
			For <100, Add	13.35	
			For >500 To 1,000, Deduct	-2.30	
			For >1,000 To 2,000, Deduct	-3.44	
			For >2,000, Deduct	-4.59	
05 15 16 00-0095 Flattened Strand Wire Rope, Extra Improved Plow Steel (XIPS), Independent Wire Rope Core (IWRC) (05 15 16)					
05 15 16 00-0096	LF		5/8" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	6.66	0.36
			For <100, Add	2.07	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000 To 2,000, Deduct	-0.50	
			For >2,000, Deduct	-0.67	
05 15 16 00-0097	LF		3/4" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	9.00	0.62
			For <100, Add	2.77	
			For >500 To 1,000, Deduct	-0.45	
			For >1,000 To 2,000, Deduct	-0.68	
			For >2,000, Deduct	-0.90	
05 15 16 00-0098	LF		7/8" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	11.43	0.80
			For <100, Add	3.48	
			For >500 To 1,000, Deduct	-0.57	
			For >1,000 To 2,000, Deduct	-0.86	
			For >2,000, Deduct	-1.14	
05 15 16 00-0099	LF		1" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	14.00	0.99
			For <100, Add	4.22	
			For >500 To 1,000, Deduct	-0.70	
			For >1,000 To 2,000, Deduct	-1.05	
			For >2,000, Deduct	-1.40	
05 15 16 00-0100	LF		1-1/8" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	16.96	1.25
			For <100, Add	5.08	
			For >500 To 1,000, Deduct	-0.85	
			For >1,000 To 2,000, Deduct	-1.27	
			For >2,000, Deduct	-1.70	
05 15 16 00-0101	LF		1-1/4" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	20.57	1.61
			For <100, Add	6.14	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000 To 2,000, Deduct	-1.54	
			For >2,000, Deduct	-2.06	
05 15 16 00-0102	LF		1-3/8" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	24.83	1.97
			For <100, Add	7.41	
			For >500 To 1,000, Deduct	-1.24	
			For >1,000 To 2,000, Deduct	-1.86	
			For >2,000, Deduct	-2.48	
05 15 16 00-0103	LF		1-1/2" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	30.34	2.32
			For <100, Add	9.10	
			For >500 To 1,000, Deduct	-1.52	
			For >1,000 To 2,000, Deduct	-2.28	
			For >2,000, Deduct	-3.03	
05 15 16 00-0104	LF		1-5/8" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	39.79	3.74
			For <100, Add	11.43	
			For >500 To 1,000, Deduct	-1.99	
			For >1,000 To 2,000, Deduct	-2.98	
			For >2,000, Deduct	-3.98	
05 15 16 00-0105	LF		1-3/4" Diameter Flattened Strand Wire Rope XIPS, IWRC.....	47.29	4.49
			For <100, Add	13.56	
			For >500 To 1,000, Deduct	-2.36	
			For >1,000 To 2,000, Deduct	-3.55	
			For >2,000, Deduct	-4.73	
05 15 16 00-0106 5x19 Coated Wire Rope, Bright, Improved Plow Steel (IPS), Fiber Core (05 15 16)					
05 15 16 00-0107	LF		9/16" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	4.80	0.09
			For <100, Add	1.61	
			For >500 To 1,000, Deduct	-0.24	
			For >1,000 To 2,000, Deduct	-0.36	
			For >2,000, Deduct	-0.48	
05 15 16 00-0108	LF		5/8" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	5.41	0.18
			For <100, Add	1.79	
			For >500 To 1,000, Deduct	-0.27	
			For >1,000 To 2,000, Deduct	-0.41	
			For >2,000, Deduct	-0.54	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0109	LF		11/16" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	5.88	0.18
			For <100, Add	1.93	
			For >500 To 1,000, Deduct	-0.29	
			For >1,000 To 2,000, Deduct	-0.44	
			For >2,000, Deduct	-0.59	
05 15 16 00-0110	LF		3/4" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	6.52	0.18
			For <100, Add	2.13	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000 To 2,000, Deduct	-0.49	
			For >2,000, Deduct	-0.65	
05 15 16 00-0111	LF		13/16" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	7.21	0.27
			For <100, Add	2.34	
			For >500 To 1,000, Deduct	-0.36	
			For >1,000 To 2,000, Deduct	-0.54	
			For >2,000, Deduct	-0.72	
05 15 16 00-0112	LF		7/8" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	7.85	0.36
			For <100, Add	2.52	
			For >500 To 1,000, Deduct	-0.39	
			For >1,000 To 2,000, Deduct	-0.59	
			For >2,000, Deduct	-0.79	
05 15 16 00-0113	LF		1" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	9.53	0.44
			For <100, Add	3.04	
			For >500 To 1,000, Deduct	-0.48	
			For >1,000 To 2,000, Deduct	-0.71	
			For >2,000, Deduct	-0.95	
05 15 16 00-0114	LF		1-1/8" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	11.72	0.62
			For <100, Add	3.70	
			For >500 To 1,000, Deduct	-0.59	
			For >1,000 To 2,000, Deduct	-0.88	
			For >2,000, Deduct	-1.17	
05 15 16 00-0115	LF		1-1/4" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	13.80	0.71
			For <100, Add	4.36	
			For >500 To 1,000, Deduct	-0.69	
			For >1,000 To 2,000, Deduct	-1.04	
			For >2,000, Deduct	-1.38	
05 15 16 00-0116	LF		1-3/8" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	16.52	0.90
			For <100, Add	5.17	
			For >500 To 1,000, Deduct	-0.83	
			For >1,000 To 2,000, Deduct	-1.24	
			For >2,000, Deduct	-1.65	
05 15 16 00-0117	LF		1-1/2" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	19.39	1.17
			For <100, Add	6.03	
			For >500 To 1,000, Deduct	-0.97	
			For >1,000 To 2,000, Deduct	-1.45	
			For >2,000, Deduct	-1.94	
05 15 16 00-0118	LF		1-5/8" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	22.84	1.43
			For <100, Add	7.06	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000 To 2,000, Deduct	-1.71	
			For >2,000, Deduct	-2.28	
05 15 16 00-0119	LF		1-3/4" Diameter 5x19 Bright, Coated Wire Rope IPS, Fiber Core With 1/4" Wire	27.29	1.70
			For <100, Add	8.43	
			For >500 To 1,000, Deduct	-1.36	
			For >1,000 To 2,000, Deduct	-2.05	
			For >2,000, Deduct	-2.73	
05 15 16 00-0120			19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope (05 15 16)		
05 15 16 00-0121	LF		3/16" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	1.46	0.09
			For <100, Add	0.47	
			For >500 To 1,000, Deduct	-0.07	
			For >1,000 To 2,000, Deduct	-0.11	
			For >2,000, Deduct	-0.15	
05 15 16 00-0122	LF		1/4" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	1.72	0.09
			For <100, Add	0.56	
			For >500 To 1,000, Deduct	-0.09	
			For >1,000 To 2,000, Deduct	-0.13	
			For >2,000, Deduct	-0.17	
05 15 16 00-0123	LF		5/16" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	2.16	0.09
			For <100, Add	0.69	
			For >500 To 1,000, Deduct	-0.11	
			For >1,000 To 2,000, Deduct	-0.16	
			For >2,000, Deduct	-0.22	
05 15 16 00-0124	LF		3/8" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	2.42	0.18
			For <100, Add	0.76	
			For >500 To 1,000, Deduct	-0.12	
			For >1,000 To 2,000, Deduct	-0.18	
			For >2,000, Deduct	-0.24	
05 15 16 00-0125	LF		7/16" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	2.85	0.18
			For <100, Add	0.87	
			For >500 To 1,000, Deduct	-0.14	
			For >1,000 To 2,000, Deduct	-0.21	
			For >2,000, Deduct	-0.29	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0126	LF		1/2" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	3.08	0.18
			For <100, Add	0.95	
			For >500 To 1,000, Deduct	-0.15	
			For >1,000 To 2,000, Deduct	-0.23	
			For >2,000, Deduct	-0.31	
05 15 16 00-0127	LF		9/16" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	3.78	0.36
			For <100, Add	1.12	
			For >500 To 1,000, Deduct	-0.19	
			For >1,000 To 2,000, Deduct	-0.28	
			For >2,000, Deduct	-0.38	
05 15 16 00-0128	LF		5/8" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	4.50	0.36
			For <100, Add	1.32	
			For >500 To 1,000, Deduct	-0.23	
			For >1,000 To 2,000, Deduct	-0.34	
			For >2,000, Deduct	-0.45	
05 15 16 00-0129	LF		3/4" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	6.54	0.53
			For <100, Add	1.93	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000 To 2,000, Deduct	-0.49	
			For >2,000, Deduct	-0.65	
05 15 16 00-0130	LF		7/8" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	8.52	0.71
			For <100, Add	2.48	
			For >500 To 1,000, Deduct	-0.43	
			For >1,000 To 2,000, Deduct	-0.64	
			For >2,000, Deduct	-0.85	
05 15 16 00-0131	LF		1" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	10.65	0.99
			For <100, Add	3.08	
			For >500 To 1,000, Deduct	-0.53	
			For >1,000 To 2,000, Deduct	-0.80	
			For >2,000, Deduct	-1.07	
05 15 16 00-0132	LF		1-1/8" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	13.07	1.25
			For <100, Add	3.74	
			For >500 To 1,000, Deduct	-0.65	
			For >1,000 To 2,000, Deduct	-0.98	
			For >2,000, Deduct	-1.31	
05 15 16 00-0133	LF		1-1/4" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	15.77	1.52
			For <100, Add	4.50	
			For >500 To 1,000, Deduct	-0.79	
			For >1,000 To 2,000, Deduct	-1.18	
			For >2,000, Deduct	-1.58	
05 15 16 00-0134	LF		1-3/8" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	18.71	1.88
			For <100, Add	5.31	
			For >500 To 1,000, Deduct	-0.94	
			For >1,000 To 2,000, Deduct	-1.40	
			For >2,000, Deduct	-1.87	
05 15 16 00-0135	LF		1-1/2" Diameter 19x7 Rotation Resistant, Improved Plow Steel (IPS) Wire Rope	21.73	2.23
			For <100, Add	6.14	
			For >500 To 1,000, Deduct	-1.09	
			For >1,000 To 2,000, Deduct	-1.63	
			For >2,000, Deduct	-2.17	
05 15 16 00-0136			8x19 Class Bright, Rotation Resistant, Extra Improved Plow Steel (XIPS), Independent Wire Rope Core (IWRC) (05 15 16)		
05 15 16 00-0137	LF		3/8" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	2.57	0.18
			For <100, Add	0.81	
			For >500 To 1,000, Deduct	-0.13	
			For >1,000 To 2,000, Deduct	-0.19	
			For >2,000, Deduct	-0.26	
05 15 16 00-0138	LF		7/16" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	3.03	0.18
			For <100, Add	0.93	
			For >500 To 1,000, Deduct	-0.15	
			For >1,000 To 2,000, Deduct	-0.23	
			For >2,000, Deduct	-0.30	
05 15 16 00-0139	LF		1/2" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	3.50	0.27
			For <100, Add	1.06	
			For >500 To 1,000, Deduct	-0.18	
			For >1,000 To 2,000, Deduct	-0.26	
			For >2,000, Deduct	-0.35	
05 15 16 00-0140	LF		9/16" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	4.11	0.36
			For <100, Add	1.22	
			For >500 To 1,000, Deduct	-0.21	
			For >1,000 To 2,000, Deduct	-0.31	
			For >2,000, Deduct	-0.41	
05 15 16 00-0141	LF		5/8" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	4.79	0.36
			For <100, Add	1.41	
			For >500 To 1,000, Deduct	-0.24	
			For >1,000 To 2,000, Deduct	-0.36	
			For >2,000, Deduct	-0.48	
05 15 16 00-0142	LF		3/4" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	6.78	0.62
			For <100, Add	1.99	
			For >500 To 1,000, Deduct	-0.34	
			For >1,000 To 2,000, Deduct	-0.51	
			For >2,000, Deduct	-0.68	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0143 LF 7/8" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	8.96	0.71
For <100, Add	2.62	
For >500 To 1,000, Deduct	-0.45	
For >1,000 To 2,000, Deduct	-0.67	
For >2,000, Deduct	-0.90	
05 15 16 00-0144 LF 1" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	11.26	0.99
For <100, Add	3.27	
For >500 To 1,000, Deduct	-0.56	
For >1,000 To 2,000, Deduct	-0.84	
For >2,000, Deduct	-1.13	
05 15 16 00-0145 LF 1-1/8" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	13.74	1.25
For <100, Add	3.96	
For >500 To 1,000, Deduct	-0.69	
For >1,000 To 2,000, Deduct	-1.03	
For >2,000, Deduct	-1.37	
05 15 16 00-0146 LF 1-1/4" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	16.43	1.52
For <100, Add	4.70	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.23	
For >2,000, Deduct	-1.64	
05 15 16 00-0147 LF 1-3/8" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	19.85	1.97
For <100, Add	5.67	
For >500 To 1,000, Deduct	-0.99	
For >1,000 To 2,000, Deduct	-1.49	
For >2,000, Deduct	-1.99	
05 15 16 00-0148 LF 1-1/2" Diameter 8x19 Rotation Resistant Wire Rope XIPS, IWRC, Class Bright	23.73	2.32
For <100, Add	6.75	
For >500 To 1,000, Deduct	-1.19	
For >1,000 To 2,000, Deduct	-1.78	
For >2,000, Deduct	-2.37	
05 15 16 00-0149 Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)		
05 15 16 00-0150 EA 1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	10.07	2.69
05 15 16 00-0151 EA 5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	10.77	2.69
05 15 16 00-0152 EA 3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	11.53	2.69
05 15 16 00-0153 EA 7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.65	2.69
05 15 16 00-0154 EA 1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.66	2.69
05 15 16 00-0155 EA 9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.66	2.69
05 15 16 00-0156 EA 5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.37	2.69
05 15 16 00-0157 EA 3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	24.85	4.12
05 15 16 00-0158 EA 7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	29.66	5.01
05 15 16 00-0159 EA 1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	51.42	8.23
05 15 16 00-0160 EA 1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	72.59	11.19
05 15 16 00-0161 EA 1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	72.59	11.19
05 15 16 00-0162 EA 1-3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	145.57	23.36
05 15 16 00-0163 EA 1-1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	208.55	33.56
05 15 16 00-0164 EA 1-5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	328.12	37.58
05 15 16 00-0165 EA 1-3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	388.30	44.75
05 15 16 00-0166 EA 1-7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	510.82	56.38
05 15 16 00-0167 EA 2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	510.82	56.38
05 15 16 00-0168 EA 2-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	758.35	89.49
05 15 16 00-0169 Galvanized Steel, Wire Rope Clips (05 15 16)		
05 15 16 00-0170 EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip	11.62	2.69
05 15 16 00-0171 EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip	11.79	2.69
05 15 16 00-0172 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	12.92	2.69
05 15 16 00-0173 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	13.10	2.69
05 15 16 00-0174 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	13.35	2.69
05 15 16 00-0175 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	15.78	2.69
05 15 16 00-0176 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	15.97	2.69
05 15 16 00-0177 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	17.83	2.69
05 15 16 00-0178 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	18.08	2.69
05 15 16 00-0179 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip	25.29	3.58
05 15 16 00-0180 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip	38.35	5.37
05 15 16 00-0181 EA 1" Diameter, Galvanized Steel, Wire Rope Clip	41.47	5.37
05 15 16 00-0182 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	49.64	7.15
05 15 16 00-0183 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	72.26	10.74
05 15 16 00-0184 EA 1-3/8" Diameter, Galvanized Steel, Wire Rope Clip	87.30	11.63
05 15 16 00-0185 EA 1-1/2" Diameter, Galvanized Steel, Wire Rope Clip	95.56	13.42
05 15 16 00-0186 EA 1-5/8" Diameter, Galvanized Steel, Wire Rope Clip	141.55	17.01
05 15 16 00-0187 EA 1-3/4" Diameter, Galvanized Steel, Wire Rope Clip	188.53	22.37
05 15 16 00-0188 EA 2" Diameter, Galvanized Steel, Wire Rope Clip	229.17	29.53
05 15 16 00-0189 EA 2-1/4" Diameter, Galvanized Steel, Wire Rope Clip	310.87	37.58
05 15 16 00-0190 EA 2-1/2" Diameter, Galvanized Steel, Wire Rope Clip	345.36	41.17
05 15 16 00-0191 EA 2-3/4" Diameter, Galvanized Steel, Wire Rope Clip	491.45	50.11
05 15 16 00-0192 EA 3" Diameter, Galvanized Steel, Wire Rope Clip	660.05	74.27
05 15 16 00-0193 Steel, Open Swage Sockets (05 15 16)		
05 15 16 00-0194 EA 1/4" Diameter, Steel, Open Swage Socket	39.51	2.69



		Metals	05	05
		Structural Metal Framing	05 10	
		Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0195	EA		5/16" Diameter, Steel, Open Swage Socket	60.85	2.69
05 15 16 00-0196	EA		3/8" Diameter, Steel, Open Swage Socket	64.40	3.58
05 15 16 00-0197	EA		7/16" Diameter, Steel, Open Swage Socket	77.89	4.48
05 15 16 00-0198	EA		1/2" Diameter, Steel, Open Swage Socket	77.89	4.48
05 15 16 00-0199	EA		9/16" Diameter, Steel, Open Swage Socket	120.91	9.84
05 15 16 00-0200	EA		5/8" Diameter, Steel, Open Swage Socket	120.91	9.84
05 15 16 00-0201	EA		3/4" Diameter, Steel, Open Swage Socket	166.52	18.80
05 15 16 00-0202	EA		7/8" Diameter, Steel, Open Swage Socket	226.74	26.85
05 15 16 00-0203	EA		1" Diameter, Steel, Open Swage Socket	326.91	41.17
05 15 16 00-0204	EA		1-1/8" Diameter, Steel, Open Swage Socket	451.63	64.43
05 15 16 00-0205	EA		1-1/4" Diameter, Steel, Open Swage Socket	526.15	74.27
05 15 16 00-0206	EA		1-3/8" Diameter, Steel, Open Swage Socket	706.27	98.43
05 15 16 00-0207	EA		1-1/2" Diameter, Steel, Open Swage Socket	1,010.53	125.28
05 15 16 00-0208	EA		1-3/4" Diameter, Steel, Open Swage Socket	1,482.34	152.13
05 15 16 00-0209	EA		2" Diameter, Steel, Open Swage Socket	2,532.00	295.31
05 15 16 00-0210 Steel, Closed Swage Sockets (05 15 16)					
05 15 16 00-0211	EA		1/4" Diameter, Steel, Closed Swage Socket	32.71	2.69
05 15 16 00-0212	EA		5/16" Diameter, Steel, Closed Swage Socket	42.60	2.69
05 15 16 00-0213	EA		3/8" Diameter, Steel, Closed Swage Socket	42.60	2.69
05 15 16 00-0214	EA		7/16" Diameter, Steel, Closed Swage Socket	53.96	3.58
05 15 16 00-0215	EA		1/2" Diameter, Steel, Closed Swage Socket	54.95	3.58
05 15 16 00-0216	EA		9/16" Diameter, Steel, Closed Swage Socket	78.94	6.27
05 15 16 00-0217	EA		5/8" Diameter, Steel, Closed Swage Socket	83.20	7.15
05 15 16 00-0218	EA		3/4" Diameter, Steel, Closed Swage Socket	107.08	11.63
05 15 16 00-0219	EA		7/8" Diameter, Steel, Closed Swage Socket	142.88	17.01
05 15 16 00-0220	EA		1" Diameter, Steel, Closed Swage Socket	204.06	23.26
05 15 16 00-0221	EA		1-1/8" Diameter, Steel, Closed Swage Socket	258.80	32.22
05 15 16 00-0222	EA		1-1/4" Diameter, Steel, Closed Swage Socket	364.40	50.11
05 15 16 00-0223	EA		1-3/8" Diameter, Steel, Closed Swage Socket	476.46	64.43
05 15 16 00-0224	EA		1-1/2" Diameter, Steel, Closed Swage Socket	657.63	89.49
05 15 16 00-0225	EA		1-3/4" Diameter, Steel, Closed Swage Socket	888.98	116.33
05 15 16 00-0226	EA		2" Diameter, Steel, Closed Swage Socket	1,568.85	178.97
05 15 16 00-0227 Galvanized Steel, Open Spelter Sockets (05 15 16)					
05 15 16 00-0228	EA		1/4" Galvanized Steel, Open Spelter Socket	62.95	2.69
05 15 16 00-0229	EA		5/16" Galvanized Steel, Open Spelter Socket	65.95	2.69
05 15 16 00-0230	EA		3/8" Galvanized Steel, Open Spelter Socket	65.95	2.69
05 15 16 00-0231	EA		7/16" Galvanized Steel, Open Spelter Socket	77.73	5.37
05 15 16 00-0232	EA		1/2" Galvanized Steel, Open Spelter Socket	77.73	5.37
05 15 16 00-0233	EA		9/16" Galvanized Steel, Open Spelter Socket	106.45	8.95
05 15 16 00-0234	EA		5/8" Galvanized Steel, Open Spelter Socket	106.45	8.95
05 15 16 00-0235	EA		3/4" Galvanized Steel, Open Spelter Socket	227.75	13.42
05 15 16 00-0236	EA		7/8" Galvanized Steel, Open Spelter Socket	213.17	22.37
05 15 16 00-0237	EA		1" Galvanized Steel, Open Spelter Socket	374.41	34.90
05 15 16 00-0238	EA		1-1/8" Galvanized Steel, Open Spelter Socket	472.87	56.38
05 15 16 00-0239	EA		1-1/4" Galvanized Steel, Open Spelter Socket	636.99	74.27
05 15 16 00-0240	EA		1-3/8" Galvanized Steel, Open Spelter Socket	636.99	74.27
05 15 16 00-0241	EA		1-1/2" Galvanized Steel, Open Spelter Socket	1,114.13	98.43
05 15 16 00-0242	EA		1-5/8" Galvanized Steel, Open Spelter Socket	1,335.93	125.28
05 15 16 00-0243	EA		1-3/4" Galvanized Steel, Open Spelter Socket	2,027.44	196.87
05 15 16 00-0244	EA		1-7/8" Galvanized Steel, Open Spelter Socket	2,027.44	196.87
05 15 16 00-0245	EA		2" Galvanized Steel, Open Spelter Socket	2,017.74	295.31
05 15 16 00-0246	EA		2-1/8" Galvanized Steel, Open Spelter Socket	2,017.74	295.31
05 15 16 00-0247	EA		2-3/8" Galvanized Steel, Open Spelter Socket	3,448.28	375.85
05 15 16 00-0248	EA		2-1/2" Galvanized Steel, Open Spelter Socket	3,448.28	375.85
05 15 16 00-0249 Galvanized Steel, Closed Spelter Sockets (05 15 16)					
05 15 16 00-0250	EA		1/4" Galvanized Steel, Closed Spelter Socket	53.54	2.69
05 15 16 00-0251	EA		5/16" Galvanized Steel, Closed Spelter Socket	53.86	2.69
05 15 16 00-0252	EA		3/8" Galvanized Steel, Closed Spelter Socket	53.86	2.69
05 15 16 00-0253	EA		7/16" Galvanized Steel, Closed Spelter Socket	63.53	4.48
05 15 16 00-0254	EA		1/2" Galvanized Steel, Closed Spelter Socket	63.53	4.48
05 15 16 00-0255	EA		9/16" Galvanized Steel, Closed Spelter Socket	93.19	8.05
05 15 16 00-0256	EA		5/8" Galvanized Steel, Closed Spelter Socket	93.19	8.05
05 15 16 00-0257	EA		3/4" Galvanized Steel, Closed Spelter Socket	119.18	11.63
05 15 16 00-0258	EA		7/8" Galvanized Steel, Closed Spelter Socket	175.51	17.90
05 15 16 00-0259	EA		1" Galvanized Steel, Closed Spelter Socket	267.03	27.74
05 15 16 00-0260	EA		1-1/8" Galvanized Steel, Closed Spelter Socket	351.00	37.58
05 15 16 00-0261	EA		1-1/4" Galvanized Steel, Closed Spelter Socket	448.01	50.11
05 15 16 00-0262	EA		1-3/8" Galvanized Steel, Closed Spelter Socket	448.01	50.11
05 15 16 00-0263	EA		1-1/2" Galvanized Steel, Closed Spelter Socket	793.88	64.43
05 15 16 00-0264	EA		1-5/8" Galvanized Steel, Closed Spelter Socket	939.85	81.44
05 15 16 00-0265	EA		1-3/4" Galvanized Steel, Closed Spelter Socket	1,218.01	125.28
05 15 16 00-0266	EA		1-7/8" Galvanized Steel, Closed Spelter Socket	1,218.01	125.28
05 15 16 00-0267	EA		2" Galvanized Steel, Closed Spelter Socket	1,592.79	178.97
05 15 16 00-0268	EA		2-1/8" Galvanized Steel, Closed Spelter Socket	1,592.79	178.97
05 15 16 00-0269	EA		2-3/8" Galvanized Steel, Closed Spelter Socket	2,043.60	241.61

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0270 EA 2-1/2" Galvanized Steel, Closed Spelter Socket.....	2,394.71	241.61
05 15 16 00-0271 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
05 15 16 00-0272 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	38.30 -4.40	2.69
05 15 16 00-0273 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	40.74 -4.77	2.69
05 15 16 00-0274 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	45.26 -5.45	2.69
05 15 16 00-0275 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	52.81 -5.67	3.58
05 15 16 00-0276 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	68.92 -7.54	4.48
05 15 16 00-0277 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	78.48 -8.54	5.37
05 15 16 00-0278 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	82.77 -8.29	7.15
05 15 16 00-0279 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	100.23 -10.56	7.15
05 15 16 00-0280 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	112.82 -12.13	8.05
05 15 16 00-0281 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	112.11 -11.10	9.84
05 15 16 00-0282 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	129.56 -12.37	11.63
05 15 16 00-0283 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	156.39 -15.79	12.53
05 15 16 00-0284 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	188.23 -18.98	15.21
05 15 16 00-0285 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	221.95 -20.51	21.47
05 15 16 00-0286 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	267.18 -25.16	25.06
05 15 16 00-0287 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	228.87 -21.55	21.47
05 15 16 00-0288 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	269.24 -23.61	27.74
05 15 16 00-0289 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	361.11 -33.51	34.90
05 15 16 00-0290 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	408.30 -36.84	41.17
05 15 16 00-0291 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	463.97 -39.77	50.11
05 15 16 00-0292 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	551.78 -49.21	56.38
05 15 16 00-0293 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	697.23 -66.23	64.43
05 15 16 00-0294 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	700.93 -63.84	68.91
05 15 16 00-0295 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	799.50 -66.23	89.49
05 15 16 00-0296 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	1,338.52 -133.66	116.33
05 15 16 00-0297 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	2,278.04 -207.48	223.72
05 15 16 00-0298 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)		
05 15 16 00-0299 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	9.87	
05 15 16 00-0300 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	9.91	
05 15 16 00-0301 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	10.82	
05 15 16 00-0302 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	12.80	
05 15 16 00-0303 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	12.76	
05 15 16 00-0304 EA 5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	16.70	
05 15 16 00-0305 EA 3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	19.36	
05 15 16 00-0306 EA 7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	25.34	
05 15 16 00-0307 EA 1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	32.69	
05 15 16 00-0308 EA 1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	46.28	
05 15 16 00-0309 EA 1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	54.69	
05 15 16 00-0310 EA 1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	96.01	
05 15 16 00-0311 EA 1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	109.79	
05 15 16 00-0312 EA 2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	134.91	
05 15 16 00-0313 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)		
05 15 16 00-0314 EA 1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	12.23	
05 15 16 00-0315 EA 1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	11.38	
05 15 16 00-0316 EA 5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	14.35	
05 15 16 00-0317 EA 5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	10.61	
05 15 16 00-0318 EA 3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	13.26	
05 15 16 00-0319 EA 3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.60	
05 15 16 00-0320 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.19	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0321 EA 3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	17.43	
05 15 16 00-0322 EA 3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	15.91	
05 15 16 00-0323 EA 3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.41	
05 15 16 00-0324 EA 1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	15.00	
05 15 16 00-0325 EA 1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	12.65	
05 15 16 00-0326 EA 1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	15.54	
05 15 16 00-0327 EA 1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.16	
05 15 16 00-0328 EA 1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	16.08	
05 15 16 00-0329 EA 1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.99	
05 15 16 00-0330 EA 1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	21.58	
05 15 16 00-0331 EA 1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.06	
05 15 16 00-0332 EA 1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.99	
05 15 16 00-0333 EA 5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	23.44	
05 15 16 00-0334 EA 5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	21.27	
05 15 16 00-0335 EA 5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	25.91	
05 15 16 00-0336 EA 5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	29.24	
05 15 16 00-0337 EA 5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	33.22	
05 15 16 00-0338 EA 5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	28.11	
05 15 16 00-0339 EA 3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	27.87	
05 15 16 00-0340 EA 3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	28.43	
05 15 16 00-0341 EA 3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	31.12	
05 15 16 00-0342 EA 3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	33.34	
05 15 16 00-0343 EA 3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	38.32	
05 15 16 00-0344 EA 1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	49.83	

05 15 19 Stainless-Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001 7x7 Class 304 Stainless Steel (05 15 19)

05 15 19 00-0002 LF 3/64" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	0.34	0.06
For <100, Add	0.10	
For >500 To 1,000, Deduct	-0.02	
For >1,000 To 2,000, Deduct	-0.03	
For >2,000, Deduct	-0.03	
For 316 Stainless Steel, Add	0.07	
05 15 19 00-0003 LF 1/16" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	0.39	0.06
For <100, Add	0.11	
For >500 To 1,000, Deduct	-0.02	
For >1,000 To 2,000, Deduct	-0.03	
For >2,000, Deduct	-0.04	
For 316 Stainless Steel, Add	0.09	
05 15 19 00-0004 LF 5/64" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	0.47	0.07
For <100, Add	0.14	
For >500 To 1,000, Deduct	-0.02	
For >1,000 To 2,000, Deduct	-0.04	
For >2,000, Deduct	-0.05	
For 316 Stainless Steel, Add	0.11	
05 15 19 00-0005 LF 3/32" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	0.56	0.07
For <100, Add	0.17	
For >500 To 1,000, Deduct	-0.03	
For >1,000 To 2,000, Deduct	-0.04	
For >2,000, Deduct	-0.06	
For 316 Stainless Steel, Add	0.14	
05 15 19 00-0006 LF 1/8" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	0.71	0.08
For <100, Add	0.21	
For >500 To 1,000, Deduct	-0.04	
For >1,000 To 2,000, Deduct	-0.05	
For >2,000, Deduct	-0.07	
For 316 Stainless Steel, Add	0.18	
05 15 19 00-0007 LF 5/32" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	1.11	0.09
For <100, Add	0.35	
For >500 To 1,000, Deduct	-0.06	
For >1,000 To 2,000, Deduct	-0.08	
For >2,000, Deduct	-0.11	
For 316 Stainless Steel, Add	0.31	
05 15 19 00-0008 LF 3/16" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	1.26	0.09
For <100, Add	0.40	
For >500 To 1,000, Deduct	-0.06	
For >1,000 To 2,000, Deduct	-0.09	
For >2,000, Deduct	-0.13	
For 316 Stainless Steel, Add	0.35	
05 15 19 00-0009 LF 1/4" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	1.72	0.09
For <100, Add	0.56	
For >500 To 1,000, Deduct	-0.09	
For >1,000 To 2,000, Deduct	-0.13	
For >2,000, Deduct	-0.17	
For 316 Stainless Steel, Add	0.51	
05 15 19 00-0010 LF 5/16" Diameter 7x7 Class 304 Stainless Steel Wire Rope.....	2.16	0.09
For <100, Add	0.70	
For >500 To 1,000, Deduct	-0.11	
For >1,000 To 2,000, Deduct	-0.16	
For >2,000, Deduct	-0.22	
For 316 Stainless Steel, Add	0.64	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0011	LF		3/8" Diameter 7x7 Class 304 Stainless Steel Wire Rope	2.71	0.09
			For <100, Add	0.87	
			For >500 To 1,000, Deduct	-0.14	
			For >1,000 To 2,000, Deduct	-0.20	
			For >2,000, Deduct	-0.27	
			For 316 Stainless Steel, Add	0.80	
05 15 19 00-0012	LF		7/16" Diameter 7x7 Class 304 Stainless Steel Wire Rope	3.32	0.18
			For <100, Add	1.06	
			For >500 To 1,000, Deduct	-0.17	
			For >1,000 To 2,000, Deduct	-0.25	
			For >2,000, Deduct	-0.33	
			For 316 Stainless Steel, Add	0.95	
05 15 19 00-0013	LF		1/2" Diameter 7x7 Class 304 Stainless Steel Wire Rope	3.86	0.18
			For <100, Add	1.22	
			For >500 To 1,000, Deduct	-0.19	
			For >1,000 To 2,000, Deduct	-0.29	
			For >2,000, Deduct	-0.39	
			For 316 Stainless Steel, Add	1.08	
05 15 19 00-0014	LF		9/16" Diameter 7x7 Class 304 Stainless Steel Wire Rope	4.64	0.27
			For <100, Add	1.45	
			For >500 To 1,000, Deduct	-0.23	
			For >1,000 To 2,000, Deduct	-0.35	
			For >2,000, Deduct	-0.46	
			For 316 Stainless Steel, Add	1.28	
05 15 19 00-0015	LF		5/8" Diameter 7x7 Class 304 Stainless Steel Wire Rope	5.29	0.36
			For <100, Add	1.64	
			For >500 To 1,000, Deduct	-0.26	
			For >1,000 To 2,000, Deduct	-0.40	
			For >2,000, Deduct	-0.53	
			For 316 Stainless Steel, Add	1.44	
05 15 19 00-0016	LF		3/4" Diameter 7x7 Class 304 Stainless Steel Wire Rope	7.03	0.44
			For <100, Add	2.16	
			For >500 To 1,000, Deduct	-0.35	
			For >1,000 To 2,000, Deduct	-0.53	
			For >2,000, Deduct	-0.70	
			For 316 Stainless Steel, Add	1.88	
05 15 19 00-0017			7x19 Class 304 Stainless Steel (05 15 19)		
05 15 19 00-0018	LF		1/4" Diameter 7x19 Class 304 Stainless Steel Wire Rope	2.81	0.09
			For <100, Add	0.94	
			For >500 To 1,000, Deduct	-0.14	
			For >1,000 To 2,000, Deduct	-0.21	
			For >2,000, Deduct	-0.28	
			For 316 Stainless Steel, Add	0.88	
05 15 19 00-0019	LF		5/16" Diameter 7x19 Class Stainless Steel Wire Rope	3.25	0.09
			For <100, Add	1.07	
			For >500 To 1,000, Deduct	-0.16	
			For >1,000 To 2,000, Deduct	-0.24	
			For >2,000, Deduct	-0.33	
			For 316 Stainless Steel, Add	1.00	
05 15 19 00-0020	LF		3/8" Diameter 7x19 Class Stainless Steel Wire Rope	3.84	0.18
			For <100, Add	1.25	
			For >500 To 1,000, Deduct	-0.19	
			For >1,000 To 2,000, Deduct	-0.29	
			For >2,000, Deduct	-0.38	
			For 316 Stainless Steel, Add	1.15	
05 15 19 00-0021	LF		7/16" Diameter 7x19 Class Stainless Steel Wire Rope	4.46	0.18
			For <100, Add	1.44	
			For >500 To 1,000, Deduct	-0.22	
			For >1,000 To 2,000, Deduct	-0.33	
			For >2,000, Deduct	-0.45	
			For 316 Stainless Steel, Add	1.31	
05 15 19 00-0022	LF		1/2" Diameter 7x19 Class Stainless Steel Wire Rope	5.12	0.27
			For <100, Add	1.63	
			For >500 To 1,000, Deduct	-0.26	
			For >1,000 To 2,000, Deduct	-0.38	
			For >2,000, Deduct	-0.51	
			For 316 Stainless Steel, Add	1.46	
05 15 19 00-0023	LF		9/16" Diameter 7x19 Class Stainless Steel Wire Rope	6.01	0.36
			For <100, Add	1.89	
			For >500 To 1,000, Deduct	-0.30	
			For >1,000 To 2,000, Deduct	-0.45	
			For >2,000, Deduct	-0.60	
			For 316 Stainless Steel, Add	1.68	
05 15 19 00-0024	LF		5/8" Diameter 7x19 Class Stainless Steel Wire Rope	6.83	0.36
			For <100, Add	2.13	
			For >500 To 1,000, Deduct	-0.34	
			For >1,000 To 2,000, Deduct	-0.51	
			For >2,000, Deduct	-0.68	
			For 316 Stainless Steel, Add	1.88	



		Metals	05	05
		Structural Metal Framing	05 10	
		Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0025	LF		3/4" Diameter 7x19 Class Stainless Steel Wire Rope.....	9.62	0.62
			For <100, Add	2.99	
			For >500 To 1,000, Deduct	-0.48	
			For >1,000 To 2,000, Deduct	-0.72	
			For >2,000, Deduct	-0.96	
			For 316 Stainless Steel, Add	2.63	
05 15 19 00-0026	LF		7/8" Diameter 7x19 Class Stainless Steel Wire Rope.....	12.65	0.71
			For <100, Add	3.92	
			For >500 To 1,000, Deduct	-0.63	
			For >1,000 To 2,000, Deduct	-0.95	
			For >2,000, Deduct	-1.27	
			For 316 Stainless Steel, Add	3.43	
05 15 19 00-0027	LF		1" Diameter 7x19 Class Stainless Steel Wire Rope.....	15.81	0.99
			For <100, Add	4.86	
			For >500 To 1,000, Deduct	-0.79	
			For >1,000 To 2,000, Deduct	-1.19	
			For >2,000, Deduct	-1.58	
			For 316 Stainless Steel, Add	4.23	
05 15 19 00-0028	LF		1-1/8" Diameter 7x19 Class Stainless Steel Wire Rope.....	19.55	1.25
			For <100, Add	6.00	
			For >500 To 1,000, Deduct	-0.98	
			For >1,000 To 2,000, Deduct	-1.47	
			For >2,000, Deduct	-1.96	
			For 316 Stainless Steel, Add	5.22	
05 15 19 00-0029	LF		1-1/4" Diameter 7x19 Class Stainless Steel Wire Rope.....	23.20	1.52
			For <100, Add	7.10	
			For >500 To 1,000, Deduct	-1.16	
			For >1,000 To 2,000, Deduct	-1.74	
			For >2,000, Deduct	-2.32	
			For 316 Stainless Steel, Add	6.15	
05 15 19 00-0030	LF		1-3/8" Diameter 7x19 Class Stainless Steel Wire Rope.....	28.08	1.88
			For <100, Add	8.57	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000 To 2,000, Deduct	-2.11	
			For >2,000, Deduct	-2.81	
			For 316 Stainless Steel, Add	7.41	
05 15 19 00-0031	LF		1-1/2" Diameter 7x19 Class Stainless Steel Wire Rope.....	33.29	2.23
			For <100, Add	10.16	
			For >500 To 1,000, Deduct	-1.66	
			For >1,000 To 2,000, Deduct	-2.50	
			For >2,000, Deduct	-3.33	
			For 316 Stainless Steel, Add	8.78	
05 15 19 00-0032	LF		1-5/8" Diameter 7x19 Class Stainless Steel Wire Rope.....	39.76	2.60
			For <100, Add	12.17	
			For >500 To 1,000, Deduct	-1.99	
			For >1,000 To 2,000, Deduct	-2.98	
			For >2,000, Deduct	-3.98	
			For 316 Stainless Steel, Add	10.55	
05 15 19 00-0033	LF		1-3/4" Diameter 7x19 Class Stainless Steel Wire Rope.....	50.61	4.31
			For <100, Add	14.88	
			For >500 To 1,000, Deduct	-2.53	
			For >1,000 To 2,000, Deduct	-3.80	
			For >2,000, Deduct	-5.06	
			For 316 Stainless Steel, Add	12.39	
05 15 19 00-0034	LF		1-7/8" Diameter 7x19 Class Stainless Steel Wire Rope.....	58.17	4.87
			For <100, Add	17.11	
			For >500 To 1,000, Deduct	-2.91	
			For >1,000 To 2,000, Deduct	-4.36	
			For >2,000, Deduct	-5.82	
			For 316 Stainless Steel, Add	14.25	
05 15 19 00-0035	LF		2" Diameter 7x19 Class Stainless Steel Wire Rope.....	66.79	5.62
			For <100, Add	19.63	
			For >500 To 1,000, Deduct	-3.34	
			For >1,000 To 2,000, Deduct	-5.01	
			For >2,000, Deduct	-6.68	
			For 316 Stainless Steel, Add	16.35	
05 15 19 00-0036	LF		2-1/8" Diameter 7x19 Class Stainless Steel Wire Rope.....	75.51	6.27
			For <100, Add	22.27	
			For >500 To 1,000, Deduct	-3.78	
			For >1,000 To 2,000, Deduct	-5.66	
			For >2,000, Deduct	-7.55	
			For 316 Stainless Steel, Add	18.60	
05 15 19 00-0037	LF		2-1/4" Diameter 7x19 Class Stainless Steel Wire Rope.....	85.78	7.02
			For <100, Add	25.35	
			For >500 To 1,000, Deduct	-4.29	
			For >1,000 To 2,000, Deduct	-6.43	
			For >2,000, Deduct	-8.58	
			For 316 Stainless Steel, Add	21.21	

05 20 Metal Joists⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 21 Steel Joist Framing^(05 20)

05 21 19 Open Web Steel Joist Framing^(05 21)

05 Metals**05 20 Metal Joists****05 21 Steel Joist Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 21 19 00-0001	TON	H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging.....	2,165.38	146.30	
		For Welded Cross Bridging, Add	182.88		
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	186.69		
05 21 19 00-0002	TON	H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging.....	1,986.52	137.17	
		For Welded Cross Bridging, Add	162.56		
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	173.36		
05 21 19 00-0003	TON	LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging.....	2,393.59	137.17	
		For Welded Cross Bridging, Add	168.82		
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	219.70		
05 21 19 00-0004	TON	DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging.....	2,719.08	137.17	
		For Welded Cross Bridging, Add	168.82		
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	258.76		
05 21 19 00-0005	TON	CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging	2,399.79	137.17	
		For Welded Cross Bridging, Add	182.88		
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	214.82		
05 21 19 00-0006	TON	SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging	3,003.88	137.17	
		For Welded Cross Bridging, Add	168.82		
		For Shop Prime Paint Other Than Manufacturer's Standard, Add	292.94		

05 30 Metal Decking ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 31 Steel Decking ^(05 30)

See CSI section 07 22 16 00-0001 for roof insulation.

05 31 00 00-0001 Open Ribbed Galvanized Steel Form Deck ^(05 31)

05 31 00 00-0002	SF	9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck	1.73		
		For Painted, Deduct	-0.05		
		For Perforated Or Slotted, Add	0.05		
		For Up To 100, Add	0.86		
		For >100 To 500, Add	0.40		
		For >500 To 1,500, Add	0.19		
05 31 00 00-0003	SF	9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck	1.84		
		For Painted, Deduct	-0.05		
		For Perforated Or Slotted, Add	0.05		
		For Up To 100, Add	0.90		
		For >100 To 500, Add	0.42		
		For >500 To 1,500, Add	0.20		
05 31 00 00-0004	SF	9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck	2.04		
		For Painted, Deduct	-0.06		
		For Perforated Or Slotted, Add	0.06		
		For Up To 100, Add	1.03		
		For >100 To 500, Add	0.48		
		For >500 To 1,500, Add	0.23		
05 31 00 00-0005	SF	9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck	2.23		
		For Painted, Deduct	-0.06		
		For Perforated Or Slotted, Add	0.06		
		For Up To 100, Add	1.17		
		For >100 To 500, Add	0.54		
		For >500 To 1,500, Add	0.26		
05 31 00 00-0006	SF	15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck	2.04		
		For Painted, Deduct	-0.06		
		For Perforated Or Slotted, Add	0.06		
		For Up To 100, Add	0.92		
		For >100 To 500, Add	0.44		
		For >500 To 1,500, Add	0.20		
05 31 00 00-0007	SF	15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck	2.14		
		For Painted, Deduct	-0.07		
		For Perforated Or Slotted, Add	0.07		
		For Up To 100, Add	0.97		
		For >100 To 500, Add	0.47		
		For >500 To 1,500, Add	0.21		
05 31 00 00-0008	SF	15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck	2.27		
		For Painted, Deduct	-0.07		
		For Perforated Or Slotted, Add	0.07		
		For Up To 100, Add	1.06		
		For >100 To 500, Add	0.50		
		For >500 To 1,500, Add	0.23		
05 31 00 00-0009	SF	15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck	2.45		
		For Painted, Deduct	-0.07		
		For Perforated Or Slotted, Add	0.07		
		For Up To 100, Add	1.19		
		For >100 To 500, Add	0.56		
		For >500 To 1,500, Add	0.26		
05 31 00 00-0010	SF	1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck	2.57		
		For Painted, Deduct	-0.07		
		For Perforated Or Slotted, Add	0.07		
		For Up To 100, Add	1.24		
		For >100 To 500, Add	0.58		
		For >500 To 1,500, Add	0.27		



	Metals	05	
	Metal Decking	05 30	05
	Steel Decking	05 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 00 00-0011	SF		1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.78	
			For Painted, Deduct	-0.08	
			For Perforated Or Slotted, Add	0.08	
			For Up To 100, Add	1.30	
			For >100 To 500, Add	0.62	
			For >500 To 1,500, Add	0.28	
05 31 00 00-0012	SF		1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.16	
			For Painted, Deduct	-0.10	
			For Perforated Or Slotted, Add	0.10	
			For Up To 100, Add	1.41	
			For >100 To 500, Add	0.68	
			For >500 To 1,500, Add	0.30	
05 31 00 00-0013	SF		1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.53	
			For Painted, Deduct	-0.11	
			For Perforated Or Slotted, Add	0.11	
			For Up To 100, Add	1.60	
			For >100 To 500, Add	0.77	
			For >500 To 1,500, Add	0.35	
05 31 00 00-0014			Open Ribbed Galvanized Steel Deck (05 31)		
05 31 00 00-0015	SF		1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	2.29	
			For Painted, Deduct	-0.06	
			For Perforated Or Slotted, Add	0.06	
			For Site Installed Insulation Between Ribs, Add	0.65	
			For Up To 100, Add	1.14	
			For >100 To 500, Add	0.53	
			For >500 To 1,500, Add	0.25	
05 31 00 00-0016	SF		1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	2.63	
			For Painted, Deduct	-0.07	
			For Perforated Or Slotted, Add	0.07	
			For Site Installed Insulation Between Ribs, Add	0.75	
			For Up To 100, Add	1.32	
			For >100 To 500, Add	0.61	
			For >500 To 1,500, Add	0.29	
05 31 00 00-0017	SF		1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	3.27	
			For Painted, Deduct	-0.09	
			For Perforated Or Slotted, Add	0.09	
			For Site Installed Insulation Between Ribs, Add	0.93	
			For Up To 100, Add	1.61	
			For >100 To 500, Add	0.76	
			For >500 To 1,500, Add	0.36	
05 31 00 00-0018	SF		1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	2.53	
			For Painted, Deduct	-0.07	
			For Perforated Or Slotted, Add	0.07	
			For Site Installed Insulation Between Ribs, Add	0.72	
			For Up To 100, Add	1.27	
			For >100 To 500, Add	0.59	
			For >500 To 1,500, Add	0.28	
05 31 00 00-0019	SF		1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	2.93	
			For Painted, Deduct	-0.08	
			For Perforated Or Slotted, Add	0.08	
			For Site Installed Insulation Between Ribs, Add	0.83	
			For Up To 100, Add	1.47	
			For >100 To 500, Add	0.69	
			For >500 To 1,500, Add	0.33	
05 31 00 00-0020	SF		1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	3.64	
			For Painted, Deduct	-0.10	
			For Perforated Or Slotted, Add	0.10	
			For Site Installed Insulation Between Ribs, Add	1.03	
			For Up To 100, Add	1.80	
			For >100 To 500, Add	0.84	
			For >500 To 1,500, Add	0.40	
05 31 00 00-0021	SF		3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	3.09	
			For Painted, Deduct	-0.09	
			For Perforated Or Slotted, Add	0.09	
			For Site Installed Insulation Between Ribs, Add	0.87	
			For Up To 100, Add	1.44	
			For >100 To 500, Add	0.69	
			For >500 To 1,500, Add	0.32	
05 31 00 00-0022	SF		3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	3.58	
			For Painted, Deduct	-0.11	
			For Perforated Or Slotted, Add	0.11	
			For Site Installed Insulation Between Ribs, Add	1.00	
			For Up To 100, Add	1.65	
			For >100 To 500, Add	0.79	
			For >500 To 1,500, Add	0.36	
05 31 00 00-0023	SF		3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	4.44	
			For Painted, Deduct	-0.13	
			For Perforated Or Slotted, Add	0.13	
			For Site Installed Insulation Between Ribs, Add	1.24	
			For Up To 100, Add	2.03	
			For >100 To 500, Add	0.97	
			For >500 To 1,500, Add	0.44	

05 Metals**05 30 Metal Decking****05 31 Steel Decking**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 00 00-0024	SF		3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	5.55	
			For Painted, Deduct	-0.17	
			For Perforated Or Slotted, Add	0.17	
			For Site Installed Insulation Between Ribs, Add	1.55	
			For Up To 100, Add	2.49	
			For >100 To 500, Add	1.20	
			For >500 To 1,500, Add	0.54	
05 31 00 00-0025	SF		4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	7.33	
			For Painted, Deduct	-0.27	
			For Perforated Or Slotted, Add	0.27	
			For Site Installed Insulation Between Ribs, Add	1.98	
			For Up To 100, Add	2.47	
			For >100 To 500, Add	1.31	
			For >500 To 1,500, Add	0.48	
05 31 00 00-0026	SF		4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	9.22	
			For Painted, Deduct	-0.34	
			For Perforated Or Slotted, Add	0.34	
			For Site Installed Insulation Between Ribs, Add	2.48	
			For Up To 100, Add	3.04	
			For >100 To 500, Add	1.63	
			For >500 To 1,500, Add	0.59	
05 31 00 00-0027	SF		6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	8.06	
			For Painted, Deduct	-0.32	
			For Perforated Or Slotted, Add	0.32	
			For Site Installed Insulation Between Ribs, Add	2.15	
			For Up To 100, Add	2.35	
			For >100 To 500, Add	1.32	
			For >500 To 1,500, Add	0.43	
05 31 00 00-0028	SF		6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	8.70	
			For Painted, Deduct	-0.33	
			For Perforated Or Slotted, Add	0.33	
			For Site Installed Insulation Between Ribs, Add	2.34	
			For Up To 100, Add	2.81	
			For >100 To 500, Add	1.52	
			For >500 To 1,500, Add	0.54	
05 31 00 00-0029	SF		6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	10.80	
			For Painted, Deduct	-0.41	
			For Perforated Or Slotted, Add	0.41	
			For Site Installed Insulation Between Ribs, Add	2.90	
			For Up To 100, Add	3.42	
			For >100 To 500, Add	1.86	
			For >500 To 1,500, Add	0.65	
05 31 00 00-0030	SF		7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	9.60	
			For Painted, Deduct	-0.36	
			For Perforated Or Slotted, Add	0.36	
			For Site Installed Insulation Between Ribs, Add	2.58	
			For Up To 100, Add	3.08	
			For >100 To 500, Add	1.67	
			For >500 To 1,500, Add	0.59	
05 31 00 00-0031	SF		7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	11.90	
			For Painted, Deduct	-0.45	
			For Perforated Or Slotted, Add	0.45	
			For Site Installed Insulation Between Ribs, Add	3.19	
			For Up To 100, Add	3.76	
			For >100 To 500, Add	2.05	
			For >500 To 1,500, Add	0.71	
05 31 00 00-0032			Cellular Galvanized Steel Deck (05 31)		
			Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.		
05 31 00 00-0033	SF		1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck	6.51	
			For Painted, Deduct	-0.24	
			For Perforated Or Slotted, Add	0.24	
			For Insulated Cells, Add	1.06	
			For Site Installed Insulation Between Ribs, Add	1.76	
			For Up To 100, Add	2.27	
			For >100 To 500, Add	1.19	
			For >500 To 1,500, Add	0.45	
05 31 00 00-0034	SF		1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck	7.38	
			For Painted, Deduct	-0.25	
			For Perforated Or Slotted, Add	0.25	
			For Insulated Cells, Add	1.12	
			For Site Installed Insulation Between Ribs, Add	2.03	
			For Up To 100, Add	2.89	
			For >100 To 500, Add	1.46	
			For >500 To 1,500, Add	0.60	
05 31 00 00-0035	SF		1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck	7.77	
			For Painted, Deduct	-0.29	
			For Perforated Or Slotted, Add	0.29	
			For Insulated Cells, Add	1.32	
			For Site Installed Insulation Between Ribs, Add	2.09	
			For Up To 100, Add	2.48	
			For >100 To 500, Add	1.34	
			For >500 To 1,500, Add	0.47	



		Metals	05	05
		Metal Decking	05 30	
		Steel Decking	05 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 00 00-0036 SF 1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	8.74	
For Painted, Deduct	-0.31	
For Perforated Or Slotted, Add	0.31	
For Insulated Cells, Add	1.40	
For Site Installed Insulation Between Ribs, Add	2.38	
For Up To 100, Add	3.14	
For >100 To 500, Add	1.63	
For >500 To 1,500, Add	0.63	
05 31 00 00-0037 SF 3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	9.02	
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Insulated Cells, Add	1.51	
For Site Installed Insulation Between Ribs, Add	2.43	
For Up To 100, Add	2.98	
For >100 To 500, Add	1.60	
For >500 To 1,500, Add	0.58	
05 31 00 00-0038 SF 3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	10.68	
For Painted, Deduct	-0.40	
For Perforated Or Slotted, Add	0.40	
For Insulated Cells, Add	1.81	
For Site Installed Insulation Between Ribs, Add	2.87	
For Up To 100, Add	3.44	
For >100 To 500, Add	1.86	
For >500 To 1,500, Add	0.66	
05 31 00 00-0039 SF 3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	11.90	
For Painted, Deduct	-0.45	
For Perforated Or Slotted, Add	0.45	
For Insulated Cells, Add	2.04	
For Site Installed Insulation Between Ribs, Add	3.19	
For Up To 100, Add	3.76	
For >100 To 500, Add	2.05	
For >500 To 1,500, Add	0.71	
05 31 00 00-0040 SF 3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	13.02	
For Painted, Deduct	-0.49	
For Perforated Or Slotted, Add	0.49	
For Insulated Cells, Add	2.20	
For Site Installed Insulation Between Ribs, Add	3.50	
For Up To 100, Add	4.21	
For >100 To 500, Add	2.27	
For >500 To 1,500, Add	0.81	
05 31 00 00-0041 SF 4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	13.05	
For Painted, Deduct	-0.54	
For Perforated Or Slotted, Add	0.54	
For Insulated Cells, Add	2.43	
For Site Installed Insulation Between Ribs, Add	3.43	
For Up To 100, Add	3.35	
For >100 To 500, Add	1.99	
For >500 To 1,500, Add	0.57	
05 31 00 00-0042 SF 4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	14.07	
For Painted, Deduct	-0.57	
For Perforated Or Slotted, Add	0.57	
For Insulated Cells, Add	2.56	
For Site Installed Insulation Between Ribs, Add	3.72	
For Up To 100, Add	3.82	
For >100 To 500, Add	2.21	
For >500 To 1,500, Add	0.67	
05 31 00 00-0043 SF 4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	14.92	
For Painted, Deduct	-0.60	
For Perforated Or Slotted, Add	0.60	
For Insulated Cells, Add	2.70	
For Site Installed Insulation Between Ribs, Add	3.95	
For Up To 100, Add	4.10	
For >100 To 500, Add	2.36	
For >500 To 1,500, Add	0.73	
05 31 00 00-0044 SF 4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	15.93	
For Painted, Deduct	-0.64	
For Perforated Or Slotted, Add	0.64	
For Insulated Cells, Add	2.88	
For Site Installed Insulation Between Ribs, Add	4.22	
For Up To 100, Add	4.39	
For >100 To 500, Add	2.53	
For >500 To 1,500, Add	0.78	

05 36 Composite Metal Decking (05 30)

05 36 00 00-0001 Composite Open Ribbed Galvanized Steel Deck (05 36)

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.

05 36 00 00-0002 SF 1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.59	
For Painted, Deduct	-0.08	
For Perforated Or Slotted, Add	0.08	
For Up To 100, Add	1.24	
For >100 To 500, Add	0.59	
For >500 To 1,500, Add	0.27	

05 Metals**05 30 Metal Decking****05 36 Composite Metal Decking**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0003	SF	1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.79		
		For Painted, Deduct	-0.08		
		For Perforated Or Slotted, Add	0.08		
		For Up To 100, Add	1.37		
		For >100 To 500, Add	0.64		
		For >500 To 1,500, Add	0.30		
05 36 00 00-0004	SF	1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.18		
		For Painted, Deduct	-0.08		
		For Perforated Or Slotted, Add	0.08		
		For Up To 100, Add	1.68		
		For >100 To 500, Add	0.77		
		For >500 To 1,500, Add	0.38		
05 36 00 00-0005	SF	1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.52		
		For Painted, Deduct	-0.09		
		For Perforated Or Slotted, Add	0.09		
		For Up To 100, Add	1.97		
		For >100 To 500, Add	0.89		
		For >500 To 1,500, Add	0.45		
05 36 00 00-0006	SF	2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.79		
		For Painted, Deduct	-0.08		
		For Perforated Or Slotted, Add	0.08		
		For Up To 100, Add	1.37		
		For >100 To 500, Add	0.64		
		For >500 To 1,500, Add	0.30		
05 36 00 00-0007	SF	2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.03		
		For Painted, Deduct	-0.08		
		For Perforated Or Slotted, Add	0.08		
		For Up To 100, Add	1.52		
		For >100 To 500, Add	0.71		
		For >500 To 1,500, Add	0.34		
05 36 00 00-0008	SF	2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.42		
		For Painted, Deduct	-0.09		
		For Perforated Or Slotted, Add	0.09		
		For Up To 100, Add	1.82		
		For >100 To 500, Add	0.83		
		For >500 To 1,500, Add	0.41		
05 36 00 00-0009	SF	2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.78		
		For Painted, Deduct	-0.09		
		For Perforated Or Slotted, Add	0.09		
		For Up To 100, Add	2.12		
		For >100 To 500, Add	0.96		
		For >500 To 1,500, Add	0.48		
05 36 00 00-0010	SF	3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.93		
		For Painted, Deduct	-0.08		
		For Perforated Or Slotted, Add	0.08		
		For Up To 100, Add	1.43		
		For >100 To 500, Add	0.67		
		For >500 To 1,500, Add	0.32		
05 36 00 00-0011	SF	3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.17		
		For Painted, Deduct	-0.09		
		For Perforated Or Slotted, Add	0.09		
		For Up To 100, Add	1.60		
		For >100 To 500, Add	0.75		
		For >500 To 1,500, Add	0.36		
05 36 00 00-0012	SF	3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.61		
		For Painted, Deduct	-0.09		
		For Perforated Or Slotted, Add	0.09		
		For Up To 100, Add	1.95		
		For >100 To 500, Add	0.89		
		For >500 To 1,500, Add	0.44		
05 36 00 00-0013	SF	3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.08		
		For Painted, Deduct	-0.10		
		For Perforated Or Slotted, Add	0.10		
		For Up To 100, Add	2.30		
		For >100 To 500, Add	1.04		
		For >500 To 1,500, Add	0.53		
05 36 00 00-0014		Composite Cellular Galvanized Steel Deck (05 36)			
		Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.			
05 36 00 00-0015	SF	1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	4.74		
		For Painted, Deduct	-0.14		
		For Perforated Or Slotted, Add	0.14		
		For Insulated Cells, Add	0.62		
		For Up To 100, Add	2.25		
		For >100 To 500, Add	1.07		
		For >500 To 1,500, Add	0.49		
05 36 00 00-0016	SF	1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.11		
		For Painted, Deduct	-0.15		
		For Perforated Or Slotted, Add	0.15		
		For Insulated Cells, Add	0.66		
		For Up To 100, Add	2.48		
		For >100 To 500, Add	1.17		
		For >500 To 1,500, Add	0.55		



	Metals	05	
	Metal Decking	05 30	05
	Composite Metal Decking	05 36	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0017 SF 1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.19	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Insulated Cells, Add	0.66	
For Up To 100, Add	2.56	
For >100 To 500, Add	1.20	
For >500 To 1,500, Add	0.57	
05 36 00 00-0018 SF 1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.55	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Insulated Cells, Add	0.68	
For Up To 100, Add	2.82	
For >100 To 500, Add	1.31	
For >500 To 1,500, Add	0.63	
05 36 00 00-0019 SF 1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	5.96	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.73	
For Up To 100, Add	3.05	
For >100 To 500, Add	1.42	
For >500 To 1,500, Add	0.68	
05 36 00 00-0020 SF 1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.04	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.73	
For Up To 100, Add	3.13	
For >100 To 500, Add	1.45	
For >500 To 1,500, Add	0.70	
05 36 00 00-0021 SF 1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.40	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.75	
For Up To 100, Add	3.40	
For >100 To 500, Add	1.56	
For >500 To 1,500, Add	0.77	
05 36 00 00-0022 SF 2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	4.93	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Insulated Cells, Add	0.64	
For Up To 100, Add	2.38	
For >100 To 500, Add	1.12	
For >500 To 1,500, Add	0.53	
05 36 00 00-0023 SF 2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.22	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Insulated Cells, Add	0.66	
For Up To 100, Add	2.57	
For >100 To 500, Add	1.20	
For >500 To 1,500, Add	0.57	
05 36 00 00-0024 SF 2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.30	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Insulated Cells, Add	0.66	
For Up To 100, Add	2.65	
For >100 To 500, Add	1.24	
For >500 To 1,500, Add	0.59	
05 36 00 00-0025 SF 2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.72	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.70	
For Up To 100, Add	2.91	
For >100 To 500, Add	1.35	
For >500 To 1,500, Add	0.65	
05 36 00 00-0026 SF 2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.07	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.73	
For Up To 100, Add	3.14	
For >100 To 500, Add	1.45	
For >500 To 1,500, Add	0.70	
05 36 00 00-0027 SF 2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.20	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.73	
For Up To 100, Add	3.27	
For >100 To 500, Add	1.50	
For >500 To 1,500, Add	0.74	
05 36 00 00-0028 SF 2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.56	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.77	
For Up To 100, Add	3.49	
For >100 To 500, Add	1.60	
For >500 To 1,500, Add	0.79	

05 Metals**05 30 Metal Decking****05 36 Composite Metal Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0029 SF 3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck	4.94	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Insulated Cells, Add	0.64	
For Up To 100, Add	2.38	
For >100 To 500, Add	1.12	
For >500 To 1,500, Add	0.53	
05 36 00 00-0030 SF 3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck	5.26	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Insulated Cells, Add	0.66	
For Up To 100, Add	2.61	
For >100 To 500, Add	1.22	
For >500 To 1,500, Add	0.58	
05 36 00 00-0031 SF 3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck	5.39	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Insulated Cells, Add	0.66	
For Up To 100, Add	2.74	
For >100 To 500, Add	1.27	
For >500 To 1,500, Add	0.61	
05 36 00 00-0032 SF 3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck	5.77	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.70	
For Up To 100, Add	2.95	
For >100 To 500, Add	1.37	
For >500 To 1,500, Add	0.66	
05 36 00 00-0033 SF 3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck	6.17	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.75	
For Up To 100, Add	3.18	
For >100 To 500, Add	1.47	
For >500 To 1,500, Add	0.71	
05 36 00 00-0034 SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck	6.35	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.75	
For Up To 100, Add	3.36	
For >100 To 500, Add	1.54	
For >500 To 1,500, Add	0.76	
05 36 00 00-0035 SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck	6.64	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.77	
For Up To 100, Add	3.57	
For >100 To 500, Add	1.63	
For >500 To 1,500, Add	0.81	

05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized (05 36)

05 36 00 00-0037 SF 1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	3.39	
05 36 00 00-0038 SF 1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	2.83	
05 36 00 00-0039 SF 1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	2.39	
05 36 00 00-0040 SF 1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	2.09	
05 36 00 00-0041 SF 1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	3.71	
05 36 00 00-0042 SF 1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	3.07	
05 36 00 00-0043 SF 1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	2.59	
05 36 00 00-0044 SF 1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	2.27	
05 36 00 00-0045 SF 3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	4.32	
05 36 00 00-0046 SF 3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	3.51	
05 36 00 00-0047 SF 3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	2.99	
05 36 00 00-0048 SF 3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	2.72	

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes all necessary framing studs, bridging, fasteners necessary to attach to floors, walls, ceilings and a metal stiffener at half height. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0002 SF 2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	3.35	0.79
For Walls >10' High, Add	0.67	
For Curved Wall, Add	0.55	
For Up To 200, Add	1.04	
For >200 To 500, Add	0.52	
For 12" On Center, Add	0.58	
For 24" On Center, Deduct	-0.58	



		Metals	05	05
		Cold-Formed Metal Framing	05 40	
		Structural Metal Stud Framing	05 41	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	3.70	0.79
		For Walls >10' High, Add	0.74	
		For Curved Wall, Add	0.58	
		For Up To 200, Add	1.13	
		For >200 To 500, Add	0.56	
		For 12" On Center, Add	0.64	
		For 24" On Center, Deduct	-0.64	
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.86	0.79
		For Walls >10' High, Add	0.77	
		For Curved Wall, Add	0.61	
		For Up To 200, Add	1.18	
		For >200 To 500, Add	0.59	
		For 12" On Center, Add	0.67	
		For 24" On Center, Deduct	-0.67	
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.76	0.87
		For Walls >10' High, Add	0.95	
		For Curved Wall, Add	0.63	
		For Up To 200, Add	1.37	
		For >200 To 500, Add	0.69	
		For 12" On Center, Add	0.85	
		For 24" On Center, Deduct	-0.85	
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.27	0.96
		For Walls >10' High, Add	1.05	
		For Curved Wall, Add	0.66	
		For Up To 200, Add	1.49	
		For >200 To 500, Add	0.75	
		For 12" On Center, Add	0.94	
		For 24" On Center, Deduct	-0.94	
05 41 00 00-0007		16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)		
05 41 00 00-0008	SF	2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	3.59	0.79
		For Walls >10' High, Add	0.72	
		For Curved Wall, Add	0.58	
		For Up To 200, Add	1.11	
		For >200 To 500, Add	0.55	
		For 12" On Center, Add	0.62	
		For 24" On Center, Deduct	-0.62	
05 41 00 00-0009	SF	3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.08	0.79
		For Walls >10' High, Add	0.82	
		For Curved Wall, Add	0.61	
		For Up To 200, Add	1.22	
		For >200 To 500, Add	0.61	
		For 12" On Center, Add	0.71	
		For 24" On Center, Deduct	-0.71	
05 41 00 00-0010	SF	4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.29	0.79
		For Walls >10' High, Add	0.86	
		For Curved Wall, Add	0.63	
		For Up To 200, Add	1.28	
		For >200 To 500, Add	0.64	
		For 12" On Center, Add	0.75	
		For 24" On Center, Deduct	-0.75	
05 41 00 00-0011	SF	6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.29	0.96
		For Walls >10' High, Add	1.06	
		For Curved Wall, Add	0.67	
		For Up To 200, Add	1.50	
		For >200 To 500, Add	0.75	
		For 12" On Center, Add	0.95	
		For 24" On Center, Deduct	-0.95	
05 41 00 00-0012	SF	8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.78	1.05
		For Walls >10' High, Add	1.16	
		For Curved Wall, Add	0.70	
		For Up To 200, Add	1.62	
		For >200 To 500, Add	0.81	
		For 12" On Center, Add	1.04	
		For 24" On Center, Deduct	-1.04	
05 41 00 00-0013		14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)		
05 41 00 00-0014	SF	3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.86	1.09
		For Walls >10' High, Add	0.97	
		For Curved Wall, Add	0.73	
		For Up To 200, Add	1.46	
		For >200 To 500, Add	0.73	
		For 12" On Center, Add	0.85	
		For 24" On Center, Deduct	-0.85	
05 41 00 00-0015	SF	4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.98	1.12
		For Walls >10' High, Add	1.00	
		For Curved Wall, Add	0.74	
		For Up To 200, Add	1.49	
		For >200 To 500, Add	0.75	
		For 12" On Center, Add	0.87	
		For 24" On Center, Deduct	-0.87	

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.08	1.18
For Walls >10' High, Add	1.22	
For Curved Wall, Add	0.78	
For Up To 200, Add	1.74	
For >200 To 500, Add	0.87	
For 12" On Center, Add	1.09	
For 24" On Center, Deduct	-1.09	
05 41 00 00-0017 SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.64	1.23
For Walls >10' High, Add	1.33	
For Curved Wall, Add	0.82	
For Up To 200, Add	1.87	
For >200 To 500, Add	0.94	
For 12" On Center, Add	1.19	
For 24" On Center, Deduct	-1.19	

05 42 Cold-Formed Metal Joist Framing (05 40)**05 42 33 Cold-Formed Metal Joist Framing** (05 42)**05 42 33 00-0001 Steel Joists, 20 Gauge** (05 42 33)

05 42 33 00-0002 LF 5-1/2" - 20 Gauge Steel Joists	6.69	1.89
05 42 33 00-0003 LF 6" - 20 Gauge Steel Joists	7.44	2.37
05 42 33 00-0004 LF 7-1/4" - 20 Gauge Steel Joists	8.05	2.59
05 42 33 00-0005 LF 8" - 20 Gauge Steel Joists	8.97	2.76

05 42 33 00-0006 Steel Joists, 18 Gauge (05 42 33)

05 42 33 00-0007 LF 5-1/2" - 18 Gauge Steel Joists	7.45	2.10
05 42 33 00-0008 LF 6" - 18 Gauge Steel Joists	8.30	2.63
05 42 33 00-0009 LF 7-1/4" - 18 Gauge Steel Joists	9.00	2.88
05 42 33 00-0010 LF 8" - 18 Gauge Steel Joists	9.31	3.06

05 42 33 00-0011 Steel Joists, 16 Gauge (05 42 33)

05 42 33 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	9.65	2.91
05 42 33 00-0013 LF 8" - 16 Gauge Steel Joists	10.18	3.06

05 42 33 00-0014 Steel Joists, 14 Gauge (05 42 33)

05 42 33 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	11.32	3.06
05 42 33 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	12.26	3.23

05 42 33 00-0017 Steel Joists, 12 Gauge (05 42 33)

05 42 33 00-0018 LF 9-1/4" - 12 Gauge Steel Joists	13.36	3.38
05 42 33 00-0019 LF 11-1/2" - 12 Gauge Steel Joists	14.55	3.56

05 42 33 00-0020 Steel Joists, 10 Gauge (05 42 33)

05 42 33 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	15.43	3.72
05 42 33 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	16.90	3.91

05 42 33 00-0023 Steel Joists, 8 Gauge (05 42 33)

05 42 33 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	17.57	4.09
05 42 33 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	19.27	4.31

05 43 Slotted Channel Framing (05 40)**05 43 00 00-0001 Unistrut Channel** (05 43)**05 43 00 00-0002 Steel Unistrut Channel** (05 43 00 00-0001)

05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	8.54	2.02
For Galvanizing, Add	0.77	
For Powder Coating, Add	0.68	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	8.76	2.02
For Galvanizing, Add	0.80	
For Powder Coating, Add	0.71	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	9.10	2.02
For Galvanizing, Add	0.86	
For Powder Coating, Add	0.76	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	8.11	2.02
For Galvanizing, Add	0.69	
For Powder Coating, Add	0.61	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	7.15	2.02
For Galvanizing, Add	0.53	
For Powder Coating, Add	0.47	



	Metals	05	
	Cold-Formed Metal Framing	05 40	05
	Slotted Channel Framing	05 43	

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0008	Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009	304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010	LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	16.63	2.02
05 43 00 00-0011	LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	19.70	2.02
05 43 00 00-0012	LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	18.94	2.02
05 43 00 00-0013	LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	23.69	2.02
05 43 00 00-0014	316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015	LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	26.61	2.02
05 43 00 00-0016	Unistrut Closure Strips (05 43)		
05 43 00 00-0017	LF Raceway Closure Strip For Unistrut Channel	4.29	0.44
05 43 00 00-0018	Lock Nuts With Spring For Unistrut Channel (05 43)		
	Note: Includes hex bolt.		
05 43 00 00-0019	Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
	Note: Includes hex bolt.		
05 43 00 00-0020	EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	5.79	
05 43 00 00-0021	EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	6.25	
05 43 00 00-0022	EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	6.60	
05 43 00 00-0023	EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	8.48	
05 43 00 00-0024	Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
	Note: Includes hex bolt.		
05 43 00 00-0025	EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	10.26	
05 43 00 00-0026	EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	10.82	
05 43 00 00-0027	EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.69	
05 43 00 00-0028	EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	24.06	
05 43 00 00-0029	Lock Nuts Without Spring For Unistrut Channel (05 43)		
	Note: Includes hex bolt.		
05 43 00 00-0030	Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
	Note: Includes hex bolt.		
05 43 00 00-0031	EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	5.80	
05 43 00 00-0032	EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	6.32	
05 43 00 00-0033	EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	6.63	
05 43 00 00-0034	EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	9.03	
05 43 00 00-0035	Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
	Note: Includes hex bolt.		
05 43 00 00-0036	EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	7.78	
05 43 00 00-0037	EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.07	
05 43 00 00-0038	EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.75	
05 43 00 00-0039	EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	23.48	
05 43 00 00-0040	Beam Clamp For Unistrut Channel (05 43)		
05 43 00 00-0041	EA Unistrut Beam Clamp, 1-5/8" Channel P2675.....	16.93	6.71
05 43 00 00-0042	EA Unistrut Beam Clamp, 1-5/8" Channel P2676.....	20.20	6.71
05 43 00 00-0043	EA Add For Unistrut Swivel Nut, P2676	1.78	
05 43 00 00-0044	Beam Clamp Clevis Hangers (05 43)		
05 43 00 00-0045	EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	18.06	6.71
05 43 00 00-0046	EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	20.67	6.71
05 43 00 00-0047	EA Add For Unistrut Swivel Nut.....	1.78	
05 43 00 00-0048	EA 6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut.....	96.84	8.95
05 43 00 00-0049	Pipe And Rigid Conduit Clamps (05 43)		
05 43 00 00-0050	Pipe And Rigid Conduit Clamps (05 43 00 00-0049)		
	Note: Includes stainless steel (316) hardware.		
05 43 00 00-0051	PR 1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	6.78	1.97
05 43 00 00-0052	PR 3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	6.96	1.97
05 43 00 00-0053	PR 1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	7.94	2.38
05 43 00 00-0054	PR 1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	8.38	2.59
05 43 00 00-0055	PR 1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	10.82	2.91
05 43 00 00-0056	PR 2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	10.82	2.91
05 43 00 00-0057	PR 2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	16.44	4.88
05 43 00 00-0058	PR 3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	16.79	4.88
05 43 00 00-0059	PR 3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	17.88	5.40

05 Metals**05 40 Cold-Formed Metal Framing****05 43 Slotted Channel Framing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0060	PR	4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	19.83	5.81
05 43 00 00-0061		Pipe And Rigid Conduit Clamps (05 43 00 00-0049) Note: Includes nylon hardware.		
05 43 00 00-0062	PR	1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	6.94	1.97
05 43 00 00-0063	PR	3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	7.12	1.97
05 43 00 00-0064	PR	1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	8.10	2.38
05 43 00 00-0065	PR	1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	8.56	2.59
05 43 00 00-0066	PR	1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	11.09	2.91
05 43 00 00-0067	PR	2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	11.09	2.91
05 43 00 00-0068	PR	2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	16.81	4.88
05 43 00 00-0069	PR	3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	17.18	4.88
05 43 00 00-0070	PR	3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	18.27	5.40
05 43 00 00-0071	PR	4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	20.28	5.81
05 45		Metal Support Assemblies (05 40)		
05 45 13		Mechanical Metal Supports (05 45) See CSI section 23 05 29 00-0000 for metal supports.		
05 45 16		Electrical Metal Supports (05 45) See CSI section 26 05 29 00-0000 for metal supports.		
05 50		Metal Fabrications (05)		
05 51		Metal Stairs (05 50)		
05 51 13		Metal Pan Stairs (05 51) Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001		Open Concrete Filled Metal Pan Stair And Landing (05 51 13) Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002	RSR	3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	542.68	25.90
		For Closed Riser, Add	61.57	
05 51 13 00-0003	RSR	4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	617.51	30.23
		For Closed Riser, Add	69.95	
05 51 13 00-0004	RSR	5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	689.68	35.41
		For Closed Riser, Add	77.90	
05 51 13 00-0005	SF	Concrete Filled Steel Pan Landing.....	73.24	4.32
		Note: Conventional shape.		
05 51 19		Metal Grating Stairs (05 51) Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001		Open Steel Grating Tread Metal Stair And Landing (05 51 19) Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002	RSR	3'-6" Wide Open Steel Grating Tread Metal Stair.....	274.21	34.55
		For Closed Riser, Add	31.85	
		For Galvanized Steel, Add	51.28	
05 51 19 00-0003	RSR	4'-0" Wide Open Steel Grating Tread Metal Stair.....	294.34	39.73
		For Closed Riser, Add	33.89	
		For Galvanized Steel, Add	53.72	
05 51 19 00-0004	RSR	5'-0" Wide Open Steel Grating Tread Metal Stair.....	327.70	46.64
		For Closed Riser, Add	37.47	
		For Galvanized Steel, Add	58.61	
05 51 19 00-0005	SF	Steel Grating Landing With Framing And 2 Pipe Handrail	52.43	4.32
		Note: Conventional shape.		
		For Galvanized Steel, Add	8.79	
05 51 33		Metal Ladders (05 51) Note: Includes factory prime.		
05 51 33 13		Vertical Metal Ladders (05 51 33)		
05 51 33 13-0001		Vertical Ladders (05 51 33 13) Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002	VLF	20" Wide Vertical Steel Ladder Primed	77.48	10.36
		For Galvanized Steel, Add	11.24	
		For Aluminum, Add	22.48	
05 51 33 13-0003	VLF	24" Wide Vertical Steel Ladder Primed	88.87	10.36
		For Galvanized Steel, Add	14.09	
		For Aluminum, Add	28.18	
05 51 33 13-0004	VLF	20" Wide Vertical Steel Caged Ladder Primed	185.65	17.27
		For Galvanized Steel, Add	32.65	
		For Aluminum, Add	65.30	
05 51 33 13-0005	VLF	24" Wide Vertical Steel Caged Ladder Primed	208.44	17.27
		For Galvanized Steel, Add	38.35	
		For Aluminum, Add	76.70	



Metals		05	05
Metal Fabrications		05 50	
Metal Stairs		05 51	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)				
05 51 33 13-0007	EA	20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	208.33	32.38
		Note: Extends 42" above landing surface. Includes mounting bracket.		
		For Galvanized Steel, Add	35.89	
		For Aluminum, Add	71.78	
05 51 33 13-0008	EA	24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	227.41	34.55
		Note: Extends 42" above landing surface. Includes mounting bracket.		
		For Galvanized Steel, Add	39.58	
		For Aluminum, Add	79.16	
05 51 33 13-0009	EA	Security Cage Entry Gate With Lockable Hasp	285.47	10.79
05 51 33 13-0010	EA	6" Security Ladder Guard	639.35	64.78
05 51 33 13-0011	EA	8" Security Ladder Guard	763.32	75.57
05 51 33 13-0012	EA	Safety Chain Attachment	114.38	
05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)				
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.				
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)				
05 51 33 13-0015	EA	7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,187.28	129.54
05 51 33 13-0016	EA	8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,285.00	133.86
05 51 33 13-0017	EA	9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,363.34	138.18
05 51 33 13-0018	EA	10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,446.86	142.50
05 51 33 13-0019	EA	11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,496.80	146.81
05 51 33 13-0020	EA	12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,576.45	151.13
05 51 33 13-0021	EA	13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,647.04	155.45
05 51 33 13-0022	EA	14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,738.29	159.77
05 51 33 13-0023	EA	15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,826.97	164.09
05 51 33 13-0024	EA	16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,900.15	168.40
05 51 33 13-0025	EA	17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	1,988.84	172.72
05 51 33 13-0026	EA	18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,074.93	177.04
05 51 33 13-0027	EA	19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,159.74	181.36
05 51 33 13-0028	EA	20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,311.66	185.67
05 51 33 13-0029	EA	21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,359.03	189.99
05 51 33 13-0030	EA	22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,438.66	194.32
05 51 33 13-0031	EA	23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,511.85	198.63
05 51 33 13-0032	EA	24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,579.88	202.95
05 51 33 13-0033	EA	25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,727.94	207.26
05 51 33 13-0034	EA	26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,808.86	211.59
05 51 33 13-0035	EA	27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,884.63	215.90
05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)				
05 51 33 13-0037	EA	7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	2,713.78	129.54
05 51 33 13-0038	EA	8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	2,896.17	133.86
05 51 33 13-0039	EA	9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,198.09	138.18
05 51 33 13-0040	EA	10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,348.45	142.50
05 51 33 13-0041	EA	11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,475.38	146.81
05 51 33 13-0042	EA	12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,642.98	151.13
05 51 33 13-0043	EA	13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	3,942.43	155.45
05 51 33 13-0044	EA	14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,095.24	159.77
05 51 33 13-0045	EA	15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,252.98	164.09
05 51 33 13-0046	EA	16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,425.50	168.40
05 51 33 13-0047	EA	17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,731.13	172.72
05 51 33 13-0048	EA	18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	4,885.17	177.04
05 51 33 13-0049	EA	19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,031.83	181.36
05 51 33 13-0050	EA	20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,273.36	185.67
05 51 33 13-0051	EA	21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,544.48	189.99
05 51 33 13-0052	EA	22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,696.05	194.32
05 51 33 13-0053	EA	23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,851.33	198.63
05 51 33 13-0054	EA	24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	5,996.75	202.95
05 51 33 13-0055	EA	25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,366.45	207.26
05 51 33 13-0056	EA	26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,511.87	211.59
05 51 33 13-0057	EA	27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage	6,660.99	215.90
05 51 33 16 Inclined Metal Ladders (05 51 33)				
05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)				
Note: Includes factory prime.				
05 51 33 16-0002	RSR	3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	209.13	43.18
		For Aluminum, Add	61.39	
05 51 33 23 Alternating Tread Ladders (05 51 33)				
05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)				
05 51 33 23-0002	EA	4' Vertical Height Aluminum Alternating Tread Ladder	1,347.25	129.54
		For Stainless Steel, Add	196.80	
		For Primed Steel, Deduct	-191.42	

05 Metals**05 50 Metal Fabrications****05 51 Metal Stairs**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 23-0003	EA		5' Vertical Height Aluminum Alternating Tread Ladder	1,531.42	137.32
			For Stainless Steel, Add	240.90	
			For Primed Steel, Deduct	-223.30	
05 51 33 23-0004	EA		6' Vertical Height Aluminum Alternating Tread Ladder	1,682.96	137.32
			For Stainless Steel, Add	288.67	
			For Primed Steel, Deduct	-241.55	
05 51 33 23-0005	EA		7' Vertical Height Aluminum Alternating Tread Ladder	1,938.27	172.55
			For Stainless Steel, Add	347.24	
			For Primed Steel, Deduct	-256.61	
05 51 33 23-0006	EA		8' Vertical Height Aluminum Alternating Tread Ladder	2,116.01	178.66
			For Stainless Steel, Add	388.99	
			For Primed Steel, Deduct	-298.53	
05 51 33 23-0007	EA		9' Vertical Height Aluminum Alternating Tread Ladder	2,249.91	178.66
			For Stainless Steel, Add	453.51	
			For Primed Steel, Deduct	-293.53	
05 51 33 23-0008	EA		10' Vertical Height Aluminum Alternating Tread Ladder	2,474.24	199.29
			For Stainless Steel, Add	497.40	
			For Primed Steel, Deduct	-327.55	
05 51 33 23-0009	EA		11' Vertical Height Aluminum Alternating Tread Ladder	2,624.26	199.29
			For Stainless Steel, Add	546.61	
			For Primed Steel, Deduct	-347.07	
05 51 33 23-0010	EA		12' Vertical Height Aluminum Alternating Tread Ladder	2,740.99	199.29
			For Stainless Steel, Add	623.99	
			For Primed Steel, Deduct	-346.65	

05 52 Metal Railings (05 50)**05 52 13 Pipe And Tube Railings** (05 52)

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF		1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	34.94	8.63
			For Schedule 80 Handrail, Add	2.67	
			For 11 Gauge A513 Steel Tubing, Deduct	-3.89	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.42	
			For 14 Gauge A513 Steel Tubing, Deduct	-5.83	
			For 16 Gauge A513 Steel Tubing, Deduct	-6.89	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	7.42	
			For Aluminum, Clear Anodized Finish, Add	11.49	
			For Aluminum, Dark Anodized Finish, Add	13.25	
			For Galvanizing, Add	7.07	
			For Wrought Iron, Add	3.49	
			For Solid Steel Rails, Add	6.99	
			For 304 Stainless Steel, Add	56.54	
			For 316 Stainless Steel, Add	63.61	
			For 2" Wheel Guard, Add	1.68	
			For 4" High Kick Plate, Add	2.21	
			For 6" High Kick Plate, Add	3.53	
			For Curved Rail, Add	15.78	
			For Mounting On Stairs, Add	4.36	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	13.15	
			For Nylon Coating, Add	2.65	
05 52 13 00-0004	LF		1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	37.99	8.63
			For Schedule 80 Handrail, Add	3.76	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.56	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.18	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.84	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.08	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	8.70	
			For Aluminum, Clear Anodized Finish, Add	13.47	
			For Aluminum, Dark Anodized Finish, Add	15.54	
			For Galvanizing, Add	8.29	
			For Wrought Iron, Add	3.80	
			For Solid Steel Rails, Add	7.60	
			For 304 Stainless Steel, Add	66.30	
			For 316 Stainless Steel, Add	74.59	
			For 2" Wheel Guard, Add	1.97	
			For 4" High Kick Plate, Add	2.59	
			For 6" High Kick Plate, Add	4.14	
			For Curved Rail, Add	17.61	
			For Mounting On Stairs, Add	4.66	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	14.68	
			For Nylon Coating, Add	3.11	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0005	LF	1-1/2"	Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	41.03	8.63
			For Schedule 80 Handrail, Add	3.76	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.23	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.94	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.84	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.27	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	9.98	
			For Aluminum, Clear Anodized Finish, Add	15.44	
			For Aluminum, Dark Anodized Finish, Add	17.82	
			For Galvanizing, Add	9.50	
			For Wrought Iron, Add	4.10	
			For Solid Steel Rails, Add	8.21	
			For 304 Stainless Steel, Add	76.03	
			For 316 Stainless Steel, Add	85.54	
			For 2" Wheel Guard, Add	2.26	
			For 4" High Kick Plate, Add	2.97	
			For 6" High Kick Plate, Add	4.75	
			For Curved Rail, Add	19.44	
			For Mounting On Stairs, Add	4.97	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	16.20	
			For Nylon Coating, Add	3.56	
05 52 13 00-0006	LF	2"	Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.31	8.63
			For Schedule 80 Handrail, Add	4.21	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.39	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.26	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.58	
			For 16 Gauge A513 Steel Tubing, Deduct	-11.33	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	12.20	
			For Aluminum, Clear Anodized Finish, Add	18.88	
			For Aluminum, Dark Anodized Finish, Add	21.78	
			For Galvanizing, Add	11.62	
			For Wrought Iron, Add	4.63	
			For Solid Steel Rails, Add	9.26	
			For 304 Stainless Steel, Add	92.93	
			For 316 Stainless Steel, Add	104.54	
			For 2" Wheel Guard, Add	2.76	
			For 4" High Kick Plate, Add	3.63	
			For 6" High Kick Plate, Add	5.81	
			For Curved Rail, Add	22.61	
			For Mounting On Stairs, Add	5.49	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	18.84	
			For Nylon Coating, Add	4.36	
05 52 13 00-0007	LF	2-1/2"	Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	52.64	8.63
			For Schedule 80 Handrail, Add	4.66	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.78	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.84	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.67	
			For 16 Gauge A513 Steel Tubing, Deduct	-13.79	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	14.86	
			For Aluminum, Clear Anodized Finish, Add	22.99	
			For Aluminum, Dark Anodized Finish, Add	26.53	
			For Galvanizing, Add	14.15	
			For Wrought Iron, Add	5.26	
			For Solid Steel Rails, Add	10.53	
			For 304 Stainless Steel, Add	113.18	
			For 316 Stainless Steel, Add	127.33	
			For 2" Wheel Guard, Add	3.36	
			For 4" High Kick Plate, Add	4.42	
			For 6" High Kick Plate, Add	7.07	
			For Curved Rail, Add	26.40	
			For Mounting On Stairs, Add	6.13	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	22.00	
			For Nylon Coating, Add	5.31	

05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
Note: Includes factory primed posts and two rails.

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0009	LF		1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	39.36	8.63
			For Schedule 80 Handrail, Add	2.67	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.86	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.52	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.29	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.62	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	9.28	
			For Aluminum, Clear Anodized Finish, Add	14.36	
			For Aluminum, Dark Anodized Finish, Add	16.57	
			For Galvanizing, Add	8.84	
			For Wrought Iron, Add	3.94	
			For Solid Steel Rails, Add	7.87	
			For 304 Stainless Steel, Add	70.69	
			For 316 Stainless Steel, Add	79.52	
			For 2" Wheel Guard, Add	2.10	
			For 4" High Kick Plate, Add	2.76	
			For 6" High Kick Plate, Add	4.42	
			For Curved Rail, Add	18.44	
			For Mounting On Stairs, Add	4.80	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	15.36	
			For Nylon Coating, Add	3.31	
05 52 13 00-0010	LF		1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	43.16	8.63
			For Schedule 80 Handrail, Add	3.76	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.70	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.47	
			For 14 Gauge A513 Steel Tubing, Deduct	-8.54	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.10	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	10.87	
			For Aluminum, Clear Anodized Finish, Add	16.83	
			For Aluminum, Dark Anodized Finish, Add	19.42	
			For Galvanizing, Add	10.36	
			For Wrought Iron, Add	4.32	
			For Solid Steel Rails, Add	8.63	
			For 304 Stainless Steel, Add	82.85	
			For 316 Stainless Steel, Add	93.20	
			For 2" Wheel Guard, Add	2.46	
			For 4" High Kick Plate, Add	3.24	
			For 6" High Kick Plate, Add	5.18	
			For Curved Rail, Add	20.72	
			For Mounting On Stairs, Add	5.18	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	17.26	
			For Nylon Coating, Add	3.88	
05 52 13 00-0011	LF		1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.97	8.63
			For Schedule 80 Handrail, Add	3.76	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.53	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.43	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.80	
			For 16 Gauge A513 Steel Tubing, Deduct	-11.58	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	12.47	
			For Aluminum, Clear Anodized Finish, Add	19.31	
			For Aluminum, Dark Anodized Finish, Add	22.28	
			For Galvanizing, Add	11.88	
			For Wrought Iron, Add	4.70	
			For Solid Steel Rails, Add	9.39	
			For 304 Stainless Steel, Add	95.04	
			For 316 Stainless Steel, Add	106.92	
			For 2" Wheel Guard, Add	2.82	
			For 4" High Kick Plate, Add	3.71	
			For 6" High Kick Plate, Add	5.94	
			For Curved Rail, Add	23.00	
			For Mounting On Stairs, Add	5.56	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	19.17	
			For Nylon Coating, Add	4.46	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0012	LF		2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	53.57	8.63
			For Schedule 80 Handrail, Add	4.21	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.99	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.08	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.98	
			For 16 Gauge A513 Steel Tubing, Deduct	-14.16	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	15.25	
			For Aluminum, Clear Anodized Finish, Add	23.60	
			For Aluminum, Dark Anodized Finish, Add	27.23	
			For Galvanizing, Add	14.52	
			For Wrought Iron, Add	5.36	
			For Solid Steel Rails, Add	10.71	
			For 304 Stainless Steel, Add	116.16	
			For 316 Stainless Steel, Add	130.68	
			For 2" Wheel Guard, Add	3.45	
			For 4" High Kick Plate, Add	4.54	
			For 6" High Kick Plate, Add	7.26	
			For Curved Rail, Add	26.96	
			For Mounting On Stairs, Add	6.22	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	22.47	
			For Nylon Coating, Add	5.45	
05 52 13 00-0013	LF		2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	61.48	8.63
			For Schedule 80 Handrail, Add	4.66	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.73	
			For 12 Gauge A513 Steel Tubing, Deduct	-11.05	
			For 14 Gauge A513 Steel Tubing, Deduct	-14.59	
			For 16 Gauge A513 Steel Tubing, Deduct	-17.24	
			For Additional Off Set Handrail, ADA Attachment, Add	11.94	
			For Aluminum, Satin Finish, Add	18.57	
			For Aluminum, Clear Anodized Finish, Add	28.74	
			For Aluminum, Dark Anodized Finish, Add	33.16	
			For Galvanizing, Add	17.68	
			For Wrought Iron, Add	6.15	
			For Solid Steel Rails, Add	12.30	
			For 304 Stainless Steel, Add	141.47	
			For 316 Stainless Steel, Add	159.16	
			For 2" Wheel Guard, Add	4.20	
			For 4" High Kick Plate, Add	5.53	
			For 6" High Kick Plate, Add	8.84	
			For Curved Rail, Add	31.71	
			For Mounting On Stairs, Add	7.01	
			For Mounting On Slopes, Add	1.73	
			For Post Base Flange With Screws, Add Per Post	19.23	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.09	
			For Custom Design Or Shapes (Square Tops, etc), Add	26.42	
			For Nylon Coating, Add	6.63	
05 52 13 00-0014			Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and three rails.		
05 52 13 00-0015	LF		1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	52.29	10.36
			For Schedule 80 Handrail, Add	4.00	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.95	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.89	
			For 14 Gauge A513 Steel Tubing, Deduct	-10.42	
			For 16 Gauge A513 Steel Tubing, Deduct	-12.31	
			For Additional Off Set Handrail, ADA Attachment, Add	12.63	
			For Aluminum, Satin Finish, Add	13.26	
			For Aluminum, Clear Anodized Finish, Add	20.52	
			For Aluminum, Dark Anodized Finish, Add	23.68	
			For Galvanizing, Add	12.63	
			For Wrought Iron, Add	5.23	
			For Solid Steel Rails, Add	10.46	
			For 304 Stainless Steel, Add	101.02	
			For 316 Stainless Steel, Add	113.65	
			For 2" Wheel Guard, Add	3.00	
			For 4" High Kick Plate, Add	3.95	
			For 6" High Kick Plate, Add	6.31	
			For Curved Rail, Add	25.16	
			For Mounting On Stairs, Add	6.27	
			For Mounting On Slopes, Add	2.07	
			For Post Base Flange With Screws, Add Per Post	19.57	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.61	
			For Custom Design Or Shapes (Square Tops, etc), Add	20.97	
			For Nylon Coating, Add	4.74	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0016	LF		1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	57.73	10.36
			For Schedule 80 Handrail, Add	5.47	
			For 11 Gauge A513 Steel Tubing, Deduct	-8.14	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.25	
			For 14 Gauge A513 Steel Tubing, Deduct	-12.21	
			For 16 Gauge A513 Steel Tubing, Deduct	-14.43	
			For Additional Off Set Handrail, ADA Attachment, Add	12.63	
			For Aluminum, Satin Finish, Add	15.54	
			For Aluminum, Clear Anodized Finish, Add	24.06	
			For Aluminum, Dark Anodized Finish, Add	27.76	
			For Galvanizing, Add	14.80	
			For Wrought Iron, Add	5.77	
			For Solid Steel Rails, Add	11.55	
			For 304 Stainless Steel, Add	118.43	
			For 316 Stainless Steel, Add	133.24	
			For 2" Wheel Guard, Add	3.52	
			For 4" High Kick Plate, Add	4.63	
			For 6" High Kick Plate, Add	7.40	
			For Curved Rail, Add	28.42	
			For Mounting On Stairs, Add	6.81	
			For Mounting On Slopes, Add	2.07	
			For Post Base Flange With Screws, Add Per Post	19.57	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.61	
			For Custom Design Or Shapes (Square Tops, etc), Add	23.69	
			For Nylon Coating, Add	5.55	
05 52 13 00-0017	LF		1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	63.17	10.36
			For Schedule 80 Handrail, Add	5.47	
			For 11 Gauge A513 Steel Tubing, Deduct	-9.34	
			For 12 Gauge A513 Steel Tubing, Deduct	-10.61	
			For 14 Gauge A513 Steel Tubing, Deduct	-14.01	
			For 16 Gauge A513 Steel Tubing, Deduct	-16.56	
			For Additional Off Set Handrail, ADA Attachment, Add	12.63	
			For Aluminum, Satin Finish, Add	17.83	
			For Aluminum, Clear Anodized Finish, Add	27.59	
			For Aluminum, Dark Anodized Finish, Add	31.84	
			For Galvanizing, Add	16.98	
			For Wrought Iron, Add	6.32	
			For Solid Steel Rails, Add	12.63	
			For 304 Stainless Steel, Add	135.84	
			For 316 Stainless Steel, Add	152.82	
			For 2" Wheel Guard, Add	4.03	
			For 4" High Kick Plate, Add	5.31	
			For 6" High Kick Plate, Add	8.49	
			For Curved Rail, Add	31.69	
			For Mounting On Stairs, Add	7.35	
			For Mounting On Slopes, Add	2.07	
			For Post Base Flange With Screws, Add Per Post	19.57	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.61	
			For Custom Design Or Shapes (Square Tops, etc), Add	26.41	
			For Nylon Coating, Add	6.37	
05 52 13 00-0018	LF		2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	72.62	10.36
			For Schedule 80 Handrail, Add	6.06	
			For 11 Gauge A513 Steel Tubing, Deduct	-11.42	
			For 12 Gauge A513 Steel Tubing, Deduct	-12.98	
			For 14 Gauge A513 Steel Tubing, Deduct	-17.13	
			For 16 Gauge A513 Steel Tubing, Deduct	-20.24	
			For Additional Off Set Handrail, ADA Attachment, Add	12.63	
			For Aluminum, Satin Finish, Add	21.80	
			For Aluminum, Clear Anodized Finish, Add	33.74	
			For Aluminum, Dark Anodized Finish, Add	38.93	
			For Galvanizing, Add	20.76	
			For Wrought Iron, Add	7.26	
			For Solid Steel Rails, Add	14.52	
			For 304 Stainless Steel, Add	166.08	
			For 316 Stainless Steel, Add	186.84	
			For 2" Wheel Guard, Add	4.93	
			For 4" High Kick Plate, Add	6.49	
			For 6" High Kick Plate, Add	10.38	
			For Curved Rail, Add	37.36	
			For Mounting On Stairs, Add	8.30	
			For Mounting On Slopes, Add	2.07	
			For Post Base Flange With Screws, Add Per Post	19.57	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.61	
			For Custom Design Or Shapes (Square Tops, etc), Add	31.13	
			For Nylon Coating, Add	7.79	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0019	LF		2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	83.87	10.36
			For Schedule 80 Handrail, Add	6.66	
			For 11 Gauge A513 Steel Tubing, Deduct	-13.89	
			For 12 Gauge A513 Steel Tubing, Deduct	-15.79	
			For 14 Gauge A513 Steel Tubing, Deduct	-20.84	
			For 16 Gauge A513 Steel Tubing, Deduct	-24.63	
			For Additional Off Set Handrail, ADA Attachment, Add	12.63	
			For Aluminum, Satin Finish, Add	26.52	
			For Aluminum, Clear Anodized Finish, Add	41.05	
			For Aluminum, Dark Anodized Finish, Add	47.36	
			For Galvanizing, Add	25.26	
			For Wrought Iron, Add	8.39	
			For Solid Steel Rails, Add	16.77	
			For 304 Stainless Steel, Add	202.08	
			For 316 Stainless Steel, Add	227.34	
			For 2" Wheel Guard, Add	6.00	
			For 4" High Kick Plate, Add	7.89	
			For 6" High Kick Plate, Add	12.63	
			For Curved Rail, Add	44.11	
			For Mounting On Stairs, Add	9.42	
			For Mounting On Slopes, Add	2.07	
			For Post Base Flange With Screws, Add Per Post	19.57	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.61	
			For Custom Design Or Shapes (Square Tops, etc), Add	36.76	
			For Nylon Coating, Add	9.47	
05 52 13 00-0020			Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and four rails.		
05 52 13 00-0021	LF		1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	62.93	12.09
			For Schedule 80 Handrail, Add	5.56	
			For 11 Gauge A513 Steel Tubing, Deduct	-8.53	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.69	
			For 14 Gauge A513 Steel Tubing, Deduct	-12.79	
			For 16 Gauge A513 Steel Tubing, Deduct	-15.11	
			For Additional Off Set Handrail, ADA Attachment, Add	13.33	
			For Aluminum, Satin Finish, Add	16.28	
			For Aluminum, Clear Anodized Finish, Add	25.19	
			For Aluminum, Dark Anodized Finish, Add	29.06	
			For Galvanizing, Add	15.50	
			For Wrought Iron, Add	6.29	
			For Solid Steel Rails, Add	12.59	
			For 304 Stainless Steel, Add	124.00	
			For 316 Stainless Steel, Add	139.50	
			For 2" Wheel Guard, Add	3.68	
			For 4" High Kick Plate, Add	4.84	
			For 6" High Kick Plate, Add	7.75	
			For Curved Rail, Add	30.50	
			For Mounting On Stairs, Add	7.50	
			For Mounting On Slopes, Add	2.42	
			For Post Base Flange With Screws, Add Per Post	19.92	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.13	
			For Custom Design Or Shapes (Square Tops, etc), Add	25.42	
			For Nylon Coating, Add	5.81	
05 52 13 00-0022	LF		1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	61.61	12.09
			For Schedule 80 Handrail, Add	7.39	
			For 11 Gauge A513 Steel Tubing, Deduct	-8.23	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.36	
			For 14 Gauge A513 Steel Tubing, Deduct	-12.35	
			For 16 Gauge A513 Steel Tubing, Deduct	-14.60	
			For Additional Off Set Handrail, ADA Attachment, Add	13.33	
			For Aluminum, Satin Finish, Add	15.72	
			For Aluminum, Clear Anodized Finish, Add	24.33	
			For Aluminum, Dark Anodized Finish, Add	28.07	
			For Galvanizing, Add	14.97	
			For Wrought Iron, Add	6.16	
			For Solid Steel Rails, Add	12.32	
			For 304 Stainless Steel, Add	119.78	
			For 316 Stainless Steel, Add	134.75	
			For 2" Wheel Guard, Add	3.56	
			For 4" High Kick Plate, Add	4.68	
			For 6" High Kick Plate, Add	7.49	
			For Curved Rail, Add	29.71	
			For Mounting On Stairs, Add	7.37	
			For Mounting On Slopes, Add	2.42	
			For Post Base Flange With Screws, Add Per Post	19.92	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.13	
			For Custom Design Or Shapes (Square Tops, etc), Add	24.76	
			For Nylon Coating, Add	5.61	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0023	LF		1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	60.29	12.09
			For Schedule 80 Handrail, Add	7.39	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.94	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.03	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.92	
			For 16 Gauge A513 Steel Tubing, Deduct	-14.08	
			For Additional Off Set Handrail, ADA Attachment, Add	13.33	
			For Aluminum, Satin Finish, Add	15.17	
			For Aluminum, Clear Anodized Finish, Add	23.47	
			For Aluminum, Dark Anodized Finish, Add	27.08	
			For Galvanizing, Add	14.44	
			For Wrought Iron, Add	6.03	
			For Solid Steel Rails, Add	12.06	
			For 304 Stainless Steel, Add	115.55	
			For 316 Stainless Steel, Add	130.00	
			For 2" Wheel Guard, Add	3.43	
			For 4" High Kick Plate, Add	4.51	
			For 6" High Kick Plate, Add	7.22	
			For Curved Rail, Add	28.92	
			For Mounting On Stairs, Add	7.24	
			For Mounting On Slopes, Add	2.42	
			For Post Base Flange With Screws, Add Per Post	19.92	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.13	
			For Custom Design Or Shapes (Square Tops, etc), Add	24.10	
			For Nylon Coating, Add	5.42	
05 52 13 00-0024	LF		2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	83.34	12.09
			For Schedule 80 Handrail, Add	8.13	
			For 11 Gauge A513 Steel Tubing, Deduct	-13.02	
			For 12 Gauge A513 Steel Tubing, Deduct	-14.79	
			For 14 Gauge A513 Steel Tubing, Deduct	-19.52	
			For 16 Gauge A513 Steel Tubing, Deduct	-23.07	
			For Additional Off Set Handrail, ADA Attachment, Add	13.33	
			For Aluminum, Satin Finish, Add	24.85	
			For Aluminum, Clear Anodized Finish, Add	38.45	
			For Aluminum, Dark Anodized Finish, Add	44.37	
			For Galvanizing, Add	23.66	
			For Wrought Iron, Add	8.33	
			For Solid Steel Rails, Add	16.67	
			For 304 Stainless Steel, Add	189.31	
			For 316 Stainless Steel, Add	212.98	
			For 2" Wheel Guard, Add	5.62	
			For 4" High Kick Plate, Add	7.40	
			For 6" High Kick Plate, Add	11.83	
			For Curved Rail, Add	42.75	
			For Mounting On Stairs, Add	9.54	
			For Mounting On Slopes, Add	2.42	
			For Post Base Flange With Screws, Add Per Post	19.92	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.13	
			For Custom Design Or Shapes (Square Tops, etc), Add	35.63	
			For Nylon Coating, Add	8.87	
05 52 13 00-0025	LF		2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	95.94	12.09
			For Schedule 80 Handrail, Add	8.87	
			For 11 Gauge A513 Steel Tubing, Deduct	-15.79	
			For 12 Gauge A513 Steel Tubing, Deduct	-17.94	
			For 14 Gauge A513 Steel Tubing, Deduct	-23.68	
			For 16 Gauge A513 Steel Tubing, Deduct	-27.99	
			For Additional Off Set Handrail, ADA Attachment, Add	13.33	
			For Aluminum, Satin Finish, Add	30.14	
			For Aluminum, Clear Anodized Finish, Add	46.64	
			For Aluminum, Dark Anodized Finish, Add	53.82	
			For Galvanizing, Add	28.70	
			For Wrought Iron, Add	9.59	
			For Solid Steel Rails, Add	19.19	
			For 304 Stainless Steel, Add	229.63	
			For 316 Stainless Steel, Add	258.34	
			For 2" Wheel Guard, Add	6.82	
			For 4" High Kick Plate, Add	8.97	
			For 6" High Kick Plate, Add	14.35	
			For Curved Rail, Add	50.31	
			For Mounting On Stairs, Add	10.80	
			For Mounting On Slopes, Add	2.42	
			For Post Base Flange With Screws, Add Per Post	19.92	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.13	
			For Custom Design Or Shapes (Square Tops, etc), Add	41.93	
			For Nylon Coating, Add	10.76	
05 52 13 00-0026			Railing Infill Panels (05 52 13)		
			Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027			Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
			Note: Square weave or square welded wire mesh.		
05 52 13 00-0028	SF		Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	7.48	
05 52 13 00-0029	SF		Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	7.95	
05 52 13 00-0030	SF		Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	8.36	
05 52 13 00-0031	SF		Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	14.13	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
05 52 13 00-0032	Perforated Metal, Railing Infill Panels (05 52 13 00-0026)			
05 52 13 00-0033	SF	Powder Coated Steel, Perforated Metal, Railing Infill Panel	7.34	
05 52 13 00-0034	SF	Galvanized Steel, Perforated Metal, Railing Infill Panel.....	7.59	
05 52 13 00-0035	SF	Aluminum, Perforated Metal, Railing Infill Panel.....	8.13	
05 52 13 00-0036	SF	Stainless Steel, Perforated Metal, Railing Infill Panel	16.31	
05 52 13 00-0037	Expanded Metal, Railing Infill Panels (05 52 13 00-0026)			
05 52 13 00-0038	SF	Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	3.31	
05 52 13 00-0039	SF	Galvanized Steel, Expanded Metal, Railing Infill Panel	6.77	
05 52 13 00-0040	SF	Aluminum, Expanded Metal, Railing Infill Panel.....	8.89	
05 52 13 00-0041	SF	Stainless Steel, Expanded Metal, Railing Infill Panel.....	13.25	
05 52 13 00-0042	Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)			
Note: Includes factory primed, fasteners and field touch-up of welds.				
05 52 13 00-0043	LF	1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	29.87	5.18
		For Schedule 80 Handrail, Add	1.69	
		For 11 Gauge A513 Steel Tubing, Deduct	-3.72	
		For 12 Gauge A513 Steel Tubing, Deduct	-4.23	
		For 14 Gauge A513 Steel Tubing, Deduct	-5.58	
		For 16 Gauge A513 Steel Tubing, Deduct	-6.59	
		For Stainless Steel, Add	33.82	
		For Aluminum, Satin Finish, Add	7.10	
		For Curved Rail, Add	8.96	
		For Aluminum, Clear Anodized Finish, Add	10.99	
		For Aluminum, Dark Anodized Finish, Add	12.68	
		For Galvanized Finish, Add	5.07	
05 52 13 00-0044	LF	1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	30.41	5.18
		For Schedule 80 Handrail, Add	1.87	
		For 11 Gauge A513 Steel Tubing, Deduct	-3.84	
		For 12 Gauge A513 Steel Tubing, Deduct	-4.36	
		For 14 Gauge A513 Steel Tubing, Deduct	-5.76	
		For 16 Gauge A513 Steel Tubing, Deduct	-6.81	
		For Stainless Steel, Add	34.90	
		For Aluminum, Satin Finish, Add	7.33	
		For Curved Rail, Add	9.12	
		For Aluminum, Clear Anodized Finish, Add	11.34	
		For Aluminum, Dark Anodized Finish, Add	13.09	
		For Galvanized Finish, Add	5.24	
05 52 13 00-0045	LF	1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	30.96	5.18
		For Schedule 80 Handrail, Add	4.31	
		For 11 Gauge A513 Steel Tubing, Deduct	-3.96	
		For 12 Gauge A513 Steel Tubing, Deduct	-4.50	
		For 14 Gauge A513 Steel Tubing, Deduct	-5.94	
		For 16 Gauge A513 Steel Tubing, Deduct	-7.02	
		For Stainless Steel, Add	36.00	
		For Aluminum, Satin Finish, Add	7.56	
		For Curved Rail, Add	9.29	
		For Aluminum, Clear Anodized Finish, Add	11.70	
		For Aluminum, Dark Anodized Finish, Add	13.50	
		For Galvanized Finish, Add	5.40	
05 52 13 00-0046	LF	2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	37.23	5.18
		For Schedule 80 Handrail, Add	2.20	
		For 11 Gauge A513 Steel Tubing, Deduct	-5.34	
		For 12 Gauge A513 Steel Tubing, Deduct	-6.07	
		For 14 Gauge A513 Steel Tubing, Deduct	-8.01	
		For 16 Gauge A513 Steel Tubing, Deduct	-9.47	
		For Stainless Steel, Add	48.54	
		For Aluminum, Satin Finish, Add	10.19	
		For Curved Rail, Add	11.17	
		For Aluminum, Clear Anodized Finish, Add	15.78	
		For Aluminum, Dark Anodized Finish, Add	18.20	
		For Galvanized Finish, Add	7.28	
05 52 13 00-0047	LF	2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	42.41	5.18
		For Schedule 80 Handrail, Add	2.35	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.48	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.36	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.72	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.49	
		For Stainless Steel, Add	58.90	
		For Aluminum, Satin Finish, Add	12.37	
		For Curved Rail, Add	12.72	
		For Aluminum, Clear Anodized Finish, Add	19.14	
		For Aluminum, Dark Anodized Finish, Add	22.09	
		For Galvanized Finish, Add	8.84	
05 52 13 00-0048	Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)			
Note: Includes factory primed, fasteners and field touch-up of welds.				

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	36.28	5.44
			For Schedule 80 Handrail, Add	1.69	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.13	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.83	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.70	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.09	
			For Stainless Steel, Add	46.64	
			For Aluminum, Satin Finish, Add	9.79	
			For Curved Rail, Add	10.88	
			For Aluminum, Clear Anodized Finish, Add	15.16	
			For Aluminum, Dark Anodized Finish, Add	17.49	
			For Galvanized Finish, Add	7.00	
05 52 13 00-0050	LF		1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	37.04	5.44
			For Schedule 80 Handrail, Add	1.87	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.30	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.02	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.95	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.39	
			For Stainless Steel, Add	48.16	
			For Aluminum, Satin Finish, Add	10.11	
			For Curved Rail, Add	11.11	
			For Aluminum, Clear Anodized Finish, Add	15.65	
			For Aluminum, Dark Anodized Finish, Add	18.06	
			For Galvanized Finish, Add	7.22	
05 52 13 00-0051	LF		1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	37.61	5.44
			For Schedule 80 Handrail, Add	4.31	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.42	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.16	
			For 14 Gauge A513 Steel Tubing, Deduct	-8.13	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.61	
			For Stainless Steel, Add	49.30	
			For Aluminum, Satin Finish, Add	10.35	
			For Curved Rail, Add	11.28	
			For Aluminum, Clear Anodized Finish, Add	16.02	
			For Aluminum, Dark Anodized Finish, Add	18.49	
			For Galvanized Finish, Add	7.40	
05 52 13 00-0052	LF		2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	46.37	5.44
			For Schedule 80 Handrail, Add	2.20	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.35	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.35	
			For 14 Gauge A513 Steel Tubing, Deduct	-11.03	
			For 16 Gauge A513 Steel Tubing, Deduct	-13.03	
			For Stainless Steel, Add	66.82	
			For Aluminum, Satin Finish, Add	14.03	
			For Curved Rail, Add	13.91	
			For Aluminum, Clear Anodized Finish, Add	21.72	
			For Aluminum, Dark Anodized Finish, Add	25.06	
			For Galvanized Finish, Add	10.02	
05 52 13 00-0053	LF		2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	52.10	5.44
			For Schedule 80 Handrail, Add	2.35	
			For 11 Gauge A513 Steel Tubing, Deduct	-8.61	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.79	
			For 14 Gauge A513 Steel Tubing, Deduct	-12.92	
			For 16 Gauge A513 Steel Tubing, Deduct	-15.26	
			For Stainless Steel, Add	78.28	
			For Aluminum, Satin Finish, Add	16.44	
			For Curved Rail, Add	15.63	
			For Aluminum, Clear Anodized Finish, Add	25.44	
			For Aluminum, Dark Anodized Finish, Add	29.36	
			For Galvanized Finish, Add	11.74	
05 52 13 00-0054			Remove And Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	19.44	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing	25.29	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket	42.18	
			For Stainless Steel, Add	32.56	

05 53 Metal Gratings (05 50)**05 53 13 Bar Gratings** (05 53)**05 53 13 00-0001 Welded Grating** (05 53 13)

Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.

05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)

Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.



Metals		05	05
Metal Fabrications		05 50	
Metal Gratings		05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating	7.62	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	0.97	
			For 304 Stainless Steel, Add	18.36	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	1.67	
			For Crossbars At 2" O.C., Add	0.62	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.42	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating	9.99	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.38	
			For 304 Stainless Steel, Add	25.97	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	2.36	
			For Crossbars At 2" O.C., Add	0.87	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.48	
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating	9.14	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.23	
			For 304 Stainless Steel, Add	23.24	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	2.11	
			For Crossbars At 2" O.C., Add	0.78	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.45	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating	12.36	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.78	
			For 304 Stainless Steel, Add	33.58	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.05	
			For Crossbars At 2" O.C., Add	1.13	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.53	
05 53 13 00-0007	SF		1" x 1/4" Steel, Welded Grating	15.58	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.33	
			For 304 Stainless Steel, Add	43.91	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.99	
			For Crossbars At 2" O.C., Add	1.48	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.62	
05 53 13 00-0008	SF		1-1/4" x 1/8" Steel, Welded Grating	10.68	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.49	
			For 304 Stainless Steel, Add	28.18	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	2.56	
			For Crossbars At 2" O.C., Add	0.95	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.49	
05 53 13 00-0009	SF		1-1/4" x 3/16" Steel, Welded Grating	14.59	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.16	
			For 304 Stainless Steel, Add	40.73	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.71	
			For Crossbars At 2" O.C., Add	1.37	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.59	
05 53 13 00-0010	SF		1-1/2" x 1/8" Steel, Welded Grating	12.22	0.95
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.75	
			For 304 Stainless Steel, Add	33.13	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.01	
			For Crossbars At 2" O.C., Add	1.11	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.53	
05 53 13 00-0011	SF		1-1/2" x 3/16" Steel, Welded Grating	17.38	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.56	
			For 304 Stainless Steel, Add	48.31	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	4.39	
			For Crossbars At 2" O.C., Add	1.63	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.94	

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0012 SF 1-1/2" x 1/4" Steel, Welded Grating	22.27	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.39	
For 304 Stainless Steel, Add	64.01	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.82	
For Crossbars At 2" O.C., Add	2.15	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.06	
05 53 13 00-0013 SF 1-3/4" x 3/16" Steel, Welded Grating	19.76	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.96	
For 304 Stainless Steel, Add	55.95	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.09	
For Crossbars At 2" O.C., Add	1.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.00	
05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating	22.00	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.34	
For 304 Stainless Steel, Add	63.14	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	5.74	
For Crossbars At 2" O.C., Add	2.12	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.05	
05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating	24.37	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.75	
For 304 Stainless Steel, Add	70.75	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	6.44	
For Crossbars At 2" O.C., Add	2.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.11	
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating	26.60	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.13	
For 304 Stainless Steel, Add	77.91	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	7.09	
For Crossbars At 2" O.C., Add	2.62	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.17	
05 53 13 00-0017 Pressure Locked Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating (05 53 13 00-0017)		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating	13.83	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	22.32	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.48	
For Crossbars At 2" O.C., Add	1.29	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.57	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating	16.88	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.46	
For 304 Stainless Steel, Add	28.03	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	4.37	
For Crossbars At 2" O.C., Add	1.62	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.65	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating	15.14	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.17	
For 304 Stainless Steel, Add	24.77	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	3.87	
For Crossbars At 2" O.C., Add	1.43	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.60	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0022	SF	1" x 3/16" Steel, Pressure Locked Grating.....	20.37	0.95	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.03		
		For 304 Stainless Steel, Add	34.56		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 7/16" O.C., Add	26.78		
		For Bearing Bars At 15/16" O.C., Add	5.39		
		For Crossbars At 2" O.C., Add	1.99		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.73		
05 53 13 00-0023	SF	1-1/4" x 1/8" Steel, Pressure Locked Grating.....	16.88	0.95	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.46		
		For 304 Stainless Steel, Add	28.03		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	4.37		
		For Crossbars At 2" O.C., Add	1.62		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.65		
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating.....	22.79	0.95	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.43		
		For 304 Stainless Steel, Add	39.09		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	6.10		
		For Crossbars At 2" O.C., Add	2.26		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.80		
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....	18.71	0.95	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.76		
		For 304 Stainless Steel, Add	31.45		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	4.91		
		For Crossbars At 2" O.C., Add	1.82		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.69		
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....	25.76	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.84		
		For 304 Stainless Steel, Add	43.84		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 7/16" O.C., Add	33.97		
		For Bearing Bars At 15/16" O.C., Add	6.84		
		For Crossbars At 2" O.C., Add	2.53		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.15		
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....	28.31	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.26		
		For 304 Stainless Steel, Add	48.61		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	7.59		
		For Crossbars At 2" O.C., Add	2.81		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.21		
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....	30.39	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.60		
		For 304 Stainless Steel, Add	52.50		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	8.19		
		For Crossbars At 2" O.C., Add	3.03		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26		
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....	32.39	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.93		
		For 304 Stainless Steel, Add	56.24		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	8.78		
		For Crossbars At 2" O.C., Add	3.25		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.31		
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....	34.12	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	5.21		
		For 304 Stainless Steel, Add	59.48		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	9.28		
		For Crossbars At 2" O.C., Add	3.43		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.36		
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)			
		Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.			

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating	10.15	0.95
For Bearing Bars At 15/16" O.C., Add	2.41	
For Crossbars At 2" O.C., Add	0.89	
For Set In Place Without Bolting, Deduct	-1.48	
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating	13.53	0.95
For Bearing Bars At 15/16" O.C., Add	3.40	
For Crossbars At 2" O.C., Add	1.26	
For Set In Place Without Bolting, Deduct	-1.56	
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating	12.80	0.95
For Bearing Bars At 15/16" O.C., Add	3.18	
For Crossbars At 2" O.C., Add	1.18	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.55	
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating	17.18	0.95
For Bearing Bars At 7/16" O.C., Add	22.16	
For Bearing Bars At 15/16" O.C., Add	4.46	
For Crossbars At 2" O.C., Add	1.65	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.66	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating	14.73	0.95
For Bearing Bars At 15/16" O.C., Add	3.75	
For Crossbars At 2" O.C., Add	1.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.59	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating	19.50	0.95
For Bearing Bars At 15/16" O.C., Add	5.14	
For Crossbars At 2" O.C., Add	1.90	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.71	
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating	16.54	0.95
For Bearing Bars At 15/16" O.C., Add	4.27	
For Crossbars At 2" O.C., Add	1.58	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.64	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating	21.89	0.95
For Bearing Bars At 7/16" O.C., Add	28.99	
For Bearing Bars At 15/16" O.C., Add	5.84	
For Crossbars At 2" O.C., Add	2.16	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.77	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating	24.18	0.95
For Bearing Bars At 15/16" O.C., Add	6.51	
For Crossbars At 2" O.C., Add	2.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.83	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating	26.89	0.95
For Bearing Bars At 15/16" O.C., Add	7.30	
For Crossbars At 2" O.C., Add	2.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.90	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating	29.02	0.95
For Bearing Bars At 15/16" O.C., Add	7.92	
For Crossbars At 2" O.C., Add	2.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.95	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating	31.55	0.95
For Bearing Bars At 15/16" O.C., Add	8.66	
For Crossbars At 2" O.C., Add	3.20	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.01	
05 53 13 00-0044 Swage Locked Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating (05 53 13 00-0044)		
Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating	22.23	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.87	
For 304 Stainless Steel, Add	33.71	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	13.01	
For Crossbars At 2" O.C., Add	1.63	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.78	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating	24.73	0.95	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.10		
		For 304 Stainless Steel, Add	37.85		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	14.61		
		For Crossbars At 2" O.C., Add	1.83		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.84		
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating	27.13	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.28		
		For 304 Stainless Steel, Add	41.12		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	15.87		
		For Crossbars At 2" O.C., Add	1.98		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.18		
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating	30.97	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.63		
		For 304 Stainless Steel, Add	47.49		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	18.33		
		For Crossbars At 2" O.C., Add	2.29		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.28		
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating.....	34.83	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.99		
		For 304 Stainless Steel, Add	53.89		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	20.80		
		For Crossbars At 2" O.C., Add	2.60		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.37		
05 53 13 00-0051	SF	2-1/4" x 3/16" Steel, Swaged Grating	38.67	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.34		
		For 304 Stainless Steel, Add	60.25		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	23.26		
		For Crossbars At 2" O.C., Add	2.91		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.47		
05 53 13 00-0052	SF	2-1/2" x 3/16" Steel, Swaged Grating	42.53	1.16	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.70		
		For 304 Stainless Steel, Add	66.65		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	25.73		
		For Crossbars At 2" O.C., Add	3.22		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.57		
05 53 13 00-0053	Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)				
	Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.				
05 53 13 00-0054	SF	1" x 1/8" Aluminum, Swaged Grating.....	11.87	0.95	
		For Bearing Bars At 15/16" O.C., Add	6.38		
		For Crossbars At 2" O.C., Add	0.80		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.52		
05 53 13 00-0055	SF	1" x 3/16" Aluminum, Swaged Grating.....	15.21	0.95	
		For Bearing Bars At 15/16" O.C., Add	8.52		
		For Crossbars At 2" O.C., Add	1.06		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.61		
05 53 13 00-0056	SF	1-1/4" x 1/8" Aluminum, Swaged Grating.....	13.37	0.95	
		For Bearing Bars At 15/16" O.C., Add	7.34		
		For Crossbars At 2" O.C., Add	0.92		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.56		
05 53 13 00-0057	SF	1-1/4" x 3/16" Aluminum, Swaged Grating.....	17.45	0.95	
		For Bearing Bars At 15/16" O.C., Add	9.95		
		For Crossbars At 2" O.C., Add	1.24		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.66		
05 53 13 00-0058	SF	1-1/2" x 1/8" Aluminum, Swaged Grating.....	15.15	0.95	
		For Bearing Bars At 15/16" O.C., Add	8.48		
		For Crossbars At 2" O.C., Add	1.06		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.60		

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating.....	19.86	0.95
For Bearing Bars At 15/16" O.C., Add	11.49	
For Crossbars At 2" O.C., Add	1.44	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.72	
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	22.63	0.95
For Bearing Bars At 15/16" O.C., Add	13.27	
For Crossbars At 2" O.C., Add	1.66	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.79	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	25.39	0.95
For Bearing Bars At 15/16" O.C., Add	15.03	
For Crossbars At 2" O.C., Add	1.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.86	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	28.16	0.95
For Bearing Bars At 15/16" O.C., Add	16.81	
For Crossbars At 2" O.C., Add	2.10	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-1.93	
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	30.91	0.95
For Bearing Bars At 15/16" O.C., Add	18.57	
For Crossbars At 2" O.C., Add	2.32	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.00	
05 53 13 00-0064 Riveted Grating (05 53 13)		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating (05 53 13 00-0064)		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	41.66	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.91	
For 304 Stainless Steel, Add	34.15	
For 5/8" Clear Opening, Add	13.72	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.27	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	48.94	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.26	
For 304 Stainless Steel, Add	40.41	
For 5/8" Clear Opening, Add	16.23	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.45	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	45.01	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.07	
For 304 Stainless Steel, Add	37.03	
For 5/8" Clear Opening, Add	14.87	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.35	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	51.71	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.39	
For 304 Stainless Steel, Add	42.79	
For 5/8" Clear Opening, Add	17.18	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.52	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	47.79	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.20	
For 304 Stainless Steel, Add	39.42	
For 5/8" Clear Opening, Add	15.83	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.42	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	56.88	0.95
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.64	
For 304 Stainless Steel, Add	47.23	
For 5/8" Clear Opening, Add	18.97	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.65	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	50.89	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.33	
For 304 Stainless Steel, Add	41.71	
For 5/8" Clear Opening, Add	16.75	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.78	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073	SF	1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating	.....	60.61	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.80	
		For 304 Stainless Steel, Add	.....	50.06	
		For 5/8" Clear Opening, Add	.....	20.11	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-3.02	
05 53 13 00-0074	SF	1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating	.....	65.57	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.04	
		For 304 Stainless Steel, Add	.....	54.32	
		For 5/8" Clear Opening, Add	.....	21.82	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-3.14	
05 53 13 00-0075	SF	2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating	.....	76.64	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.57	
		For 304 Stainless Steel, Add	.....	63.83	
		For 5/8" Clear Opening, Add	.....	25.64	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-3.42	
05 53 13 00-0076	SF	2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating	.....	80.49	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.75	
		For 304 Stainless Steel, Add	.....	67.14	
		For 5/8" Clear Opening, Add	.....	26.97	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-3.52	
05 53 13 00-0077	SF	2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating	.....	83.93	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.92	
		For 304 Stainless Steel, Add	.....	70.09	
		For 5/8" Clear Opening, Add	.....	28.15	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-3.60	
05 53 13 00-0078		Aluminum, Riveted Grating (05 53 13 00-0064)			
		Note: 1" clear opening, bolted in place and in all sizes.			
05 53 13 00-0079	SF	3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating	.....	24.67	0.95
		For 5/8" Clear Opening, Add	.....	7.86	
		For Set In Place Without Bolting, Deduct	.....	-1.84	
05 53 13 00-0080	SF	3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating	.....	29.18	0.95
		For 5/8" Clear Opening, Add	.....	9.41	
		For Set In Place Without Bolting, Deduct	.....	-1.96	
05 53 13 00-0081	SF	1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating	.....	27.08	0.95
		For 5/8" Clear Opening, Add	.....	8.69	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-1.90	
05 53 13 00-0082	SF	1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating	.....	31.48	0.95
		For 5/8" Clear Opening, Add	.....	10.21	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.01	
05 53 13 00-0083	SF	1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating	.....	30.30	0.95
		For 5/8" Clear Opening, Add	.....	9.80	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-1.98	
05 53 13 00-0084	SF	1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating	.....	36.41	0.95
		For 5/8" Clear Opening, Add	.....	11.91	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.14	
05 53 13 00-0085	SF	1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating	.....	32.50	0.95
		For 5/8" Clear Opening, Add	.....	10.56	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.04	
05 53 13 00-0086	SF	1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating	.....	40.26	0.95
		For 5/8" Clear Opening, Add	.....	13.23	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.23	
05 53 13 00-0087	SF	1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating	.....	44.32	0.95
		For 5/8" Clear Opening, Add	.....	14.63	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.33	
05 53 13 00-0088	SF	2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating	.....	52.68	0.95
		For 5/8" Clear Opening, Add	.....	17.52	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.54	
05 53 13 00-0089	SF	2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating	.....	57.41	0.95
		For 5/8" Clear Opening, Add	.....	19.15	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.66	
05 53 13 00-0090	SF	2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating	.....	63.77	0.95
		For 5/8" Clear Opening, Add	.....	21.35	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting, Deduct	.....	-2.82	

05 Metals**05 50 Metal Fabrications****05 54 Metal Floor Plates**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 54 Metal Floor Plates (05 50)**05 54 00 00-0001 Steel Floor Plates** (05 54)

05 54 00 00-0002	SF	16 Gauge Steel Raised Or Diamond Pattern Floor Plates	10.85	1.12
05 54 00 00-0003	SF	14 Gauge Steel Raised Or Diamond Pattern Floor Plates	12.31	1.12
05 54 00 00-0004	SF	12 Gauge Steel Raised Or Diamond Pattern Floor Plates	15.26	1.12
05 54 00 00-0005	SF	1/8" Steel Raised Or Diamond Pattern Floor Plates	20.34	1.21
05 54 00 00-0006	SF	1/4" Steel Raised Or Diamond Pattern Floor Plates	25.63	1.30

05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)

05 54 00 00-0008	SF	0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	15.78	0.95
05 54 00 00-0009	SF	0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	18.10	1.12
05 54 00 00-0010	SF	0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	20.43	1.21

05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)

05 54 00 00-0012	SF	1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	26.51	1.30
		<i>For 316 Stainless Steel, Add</i>	7.38	
05 54 00 00-0013	SF	3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	31.68	1.47
		<i>For 316 Stainless Steel, Add</i>	8.86	
05 54 00 00-0014	SF	1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	41.00	1.73
		<i>For 316 Stainless Steel, Add</i>	11.57	

05 55 Metal Stair Treads And Nosings (05 50)**05 55 13 Metal Stair Treads** (05 55)**05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads** (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0002	LF	8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	39.43	4.97
		<i>For 3/8" Thick, Add</i>	7.87	
05 55 13 00-0003	LF	9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread	43.12	4.97
		<i>For 3/8" Thick, Add</i>	8.79	
05 55 13 00-0004	LF	10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	46.80	4.97
		<i>For 3/8" Thick, Add</i>	9.71	
05 55 13 00-0005	LF	11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	50.51	4.97
		<i>For 3/8" Thick, Add</i>	10.64	
05 55 13 00-0006	LF	12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	54.17	4.97
		<i>For 3/8" Thick, Add</i>	11.55	

05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0008	LF	8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	53.74	4.97
05 55 13 00-0009	LF	9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	59.21	4.97
05 55 13 00-0010	LF	10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	64.69	4.97
05 55 13 00-0011	LF	11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	70.16	4.97
05 55 13 00-0012	LF	12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	75.64	4.97

05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	22.16	4.97
05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	25.51	4.97
05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread	26.98	4.97

05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13)

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0018	LF	8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	31.39	4.97
		<i>For Epoxy Sealed For Corrosive Environment, Add</i>	2.32	
		<i>For Two Color Tread, Add</i>	1.74	
05 55 13 00-0019	LF	9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	31.67	4.97
		<i>For Epoxy Sealed For Corrosive Environment, Add</i>	2.32	
		<i>For Two Color Tread, Add</i>	1.74	
05 55 13 00-0020	LF	11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	37.69	4.97
		<i>For Epoxy Sealed For Corrosive Environment, Add</i>	2.32	
		<i>For Two Color Tread, Add</i>	1.74	
05 55 13 00-0021	LF	12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	42.96	4.97
		<i>For Epoxy Sealed For Corrosive Environment, Add</i>	2.32	
		<i>For Two Color Tread, Add</i>	1.74	
05 55 13 00-0022	LF	15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	49.83	4.97
		<i>For Epoxy Sealed For Corrosive Environment, Add</i>	2.32	
		<i>For Two Color Tread, Add</i>	1.74	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Stair Treads And Nosings	05 55	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0023		Stair Landing Treads (05 55 13)		
05 55 13 00-0024		Abrasive Cast Aluminum Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025	SF	5/16" Thick, Abrasive Cast Aluminum Landing Treads..... For 3/8" Thick, Add	54.17 11.55	4.97
05 55 13 00-0026		Abrasive Cast Iron Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027	SF	3/8" Thick, Abrasive Cast Iron Landing Treads.....	75.64	4.97
05 55 13 00-0028		Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads (05 55 13 00-0023) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029	SF	9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads For Epoxy Sealed For Corrosive Environment, Add	50.44 2.32	4.97
05 55 13 00-0030		Open Cast Iron Stair Tread (05 55 13) Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031	RSR	3'-6" Wide, Open Cast Iron Stair Tread..... For Closed Riser, Add	374.55 31.85	34.55
05 55 13 00-0032	RSR	4'-0" Wide, Open Cast Iron Stair Tread..... For Closed Riser, Add	423.90 35.93	39.73
05 55 13 00-0033	RSR	5'-0" Wide, Open Cast Iron Stair Tread..... For Closed Riser, Add	469.03 39.69	46.64
05 55 16		Metal Stair Nosings (05 55)		
05 55 16 00-0001		Abrasive Cast Aluminum Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002	LF	3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... For 3/8" Thick, Add	17.39 2.99	3.39
05 55 16 00-0003	LF	4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... For 3/8" Thick, Add	20.96 3.88	3.39
05 55 16 00-0004	LF	6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... For 3/8" Thick, Add	28.90 5.87	3.39
05 55 16 00-0005		Abrasive Cast Iron Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006	LF	3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... For 3/8" Thick, Add	19.99 3.64	3.39
05 55 16 00-0007	LF	4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... For 3/8" Thick, Add	24.38 4.74	3.39
05 55 16 00-0008	LF	6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... For 3/8" Thick, Add	33.05 6.91	3.39
05 55 16 00-0009		Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings (05 55 16) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010	LF	1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	14.98	3.39
05 55 16 00-0011	LF	3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	16.70	3.39
05 55 16 00-0012	LF	4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.01	3.39
05 55 16 00-0013	LF	6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	22.08	3.39
05 55 16 00-0014	LF	1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	15.44	3.39
05 55 16 00-0015	LF	3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	16.90	3.39
05 55 16 00-0016	LF	4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	18.36	3.39
05 55 16 00-0017	LF	3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing	17.47	3.39
05 56		Metal Castings (05 50)		
05 56 00 00-0001		Castings (05 56)		
05 56 00 00-0002	LB	Up To 150 LB, Miscellaneous Castings, Light Section	3.09	0.43
05 56 00 00-0003	LB	>150 LB, Miscellaneous Castings, Heavy Section.....	4.99	0.35
05 58		Formed Metal Fabrications (05 50)		
05 58 16		Formed Metal Enclosures (05 58)		
05 58 16 00-0001		Drip Pan (05 58 16)		
05 58 16 00-0002	SF	Stainless Steel Drip Pan	61.70	5.76
05 58 16 00-0003	SF	Galvanized Steel Drip Pan.....	61.01	5.76
05 58 16 00-0004	SF	Aluminum Drip Pan.....	43.28	4.60
05 58 16 00-0005	SF	Plastic Drip Pan	13.51	4.03

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001	EA	Protective Guard Rails (05 58 23) Note: Includes painted finish.		
05 58 23 00-0002	EA	2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001) Note: Steel King Armor Guard.		
05 58 23 00-0003	EA	Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002) Note: Excludes posts. Includes fasteners.		
05 58 23 00-0004	EA	1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	113.17	16.28
05 58 23 00-0005	EA	2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	131.62	16.28
05 58 23 00-0006	EA	3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	149.03	16.28
05 58 23 00-0007	EA	4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	167.49	16.28
05 58 23 00-0008	EA	5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	184.99	16.28
05 58 23 00-0009	EA	6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	207.69	16.28
05 58 23 00-0010	EA	7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	223.15	16.28
05 58 23 00-0011	EA	8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	247.09	16.28
05 58 23 00-0012	EA	9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	262.80	16.28
05 58 23 00-0013	EA	10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	274.03	16.28

05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0015	EA	12" Height, Single Rail Post For 2-Rib Guard Rails	231.42	33.91
05 58 23 00-0016	EA	42" Height, Triple Rail Post For 2-Rib Guard Rails	295.51	33.91

05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Steel Guard.

05 58 23 00-0018	EA	Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017) Note: Excludes posts. Includes fasteners.		
05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	124.29	16.28
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	136.56	16.28
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	151.87	16.28
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	166.19	16.28
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	182.75	16.28
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	190.73	16.28
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	209.93	16.28
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	226.14	16.28
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	243.35	16.28
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	260.81	16.28

05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners and lift-out mounting plate.

05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	179.51	16.28
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	192.97	16.28
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	206.94	16.28
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	223.15	16.28
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	239.36	16.28
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	252.58	16.28
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	267.79	16.28
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	285.00	16.28
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	303.45	16.28
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	319.66	16.28

05 58 23 00-0040 Posts For 3-Rib Guard Rails (05 58 23 00-0017)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails	205.88	33.91
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails	257.86	33.91

05 58 23 00-0043 All-Welded, Protective Guards (05 58 23)

Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.

05 58 23 00-0044	EA	All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0045	EA	36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	269.24	45.22
05 58 23 00-0046	EA	48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	281.71	45.22
05 58 23 00-0047	EA	36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	288.94	45.22
05 58 23 00-0048	EA	48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	299.67	45.22
05 58 23 00-0049	EA	36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	297.17	45.22
05 58 23 00-0050	EA	48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	310.39	45.22
05 58 23 00-0051	EA	36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	314.13	45.22
05 58 23 00-0052	EA	48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	318.37	45.22
05 58 23 00-0053	EA	48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	338.57	45.22



		Metals	05	05
		Metal Fabrications	05 50	
		Formed Metal Fabrications	05 58	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0054 Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0055 EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	346.55	45.22
05 58 23 00-0056 EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	361.52	45.22
05 58 23 00-0057 EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	367.75	45.22
05 58 23 00-0058 EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	398.43	45.22
05 58 23 00-0059 Warehouse Safety Bollards (05 58 23)		
Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060 EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	172.59	33.91
05 58 23 00-0061 EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	197.23	33.91
05 58 23 00-0062 EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	223.32	33.91
05 58 23 00-0063 EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	230.45	33.91
05 58 23 00-0064 EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard	246.91	33.91
05 59 Metal Specialties (05 59)		
05 59 65 Chain (05 59)		
05 59 65 00-0001 Alloy Steel Chain, Self Colored, Cut Length (05 59 65)		
Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002 LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	3.85	0.84
For Plastic Dipped, Add	0.33	
05 59 65 00-0003 LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	5.16	1.12
For Plastic Dipped, Add	0.44	
05 59 65 00-0004 LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	8.43	2.23
For Plastic Dipped, Add	0.59	
05 59 65 00-0005 LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	13.62	3.77
For Plastic Dipped, Add	0.91	
05 59 65 00-0006 LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	22.99	6.38
For Plastic Dipped, Add	1.53	
05 59 65 00-0007 LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	32.26	8.95
For Plastic Dipped, Add	2.15	
05 59 65 00-0008 LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	43.43	11.19
For Plastic Dipped, Add	3.16	
05 59 65 00-0009 LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	62.11	14.91
For Plastic Dipped, Add	4.84	
05 59 65 00-0010 LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored	100.00	22.37
For Plastic Dipped, Add	8.29	
05 59 69 Metal Panels (05 59)		
05 59 69 00-0001 Woven And Welded Wire Cloth (05 59 69)		
Note: Excludes frame and fastening to frame. See CSI section 05 12 23 00-0129 for spot welding.		
05 59 69 00-0002 Plain Steel Woven And Welded Wire Cloth Panels (05 59 69 00-0001)		
05 59 69 00-0003 2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0004 SF 0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels	6.82	2.39
For Up To 2, Add	2.00	
For >2 To 6, Add	1.16	
For >15 To 40, Deduct	-0.18	
For >40, Deduct	-0.54	
For Galvanized, Add	1.82	
For Aluminum, Add	2.18	
For 304 Stainless Steel, Add	8.71	
For 316 Stainless Steel, Add	9.98	
05 59 69 00-0005 SF 0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels	7.31	2.49
For Up To 2, Add	2.13	
For >2 To 6, Add	1.23	
For >15 To 40, Deduct	-0.20	
For >40, Deduct	-0.60	
For Galvanized, Add	2.00	
For Aluminum, Add	2.39	
For 304 Stainless Steel, Add	9.58	
For 316 Stainless Steel, Add	10.97	
05 59 69 00-0006 SF 0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels	7.80	2.76
For Up To 2, Add	2.30	
For >2 To 6, Add	1.33	
For >15 To 40, Deduct	-0.21	
For >40, Deduct	-0.62	
For Galvanized, Add	2.06	
For Aluminum, Add	2.47	
For 304 Stainless Steel, Add	9.89	
For 316 Stainless Steel, Add	11.33	

05 Metals**05 50 Metal Fabrications****05 59 Metal Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0007	SF		0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels.....	8.21	2.87
			For Up To 2, Add	2.41	
			For >2 To 6, Add	1.40	
			For >15 To 40, Deduct	-0.22	
			For >40, Deduct	-0.66	
			For Galvanized, Add	2.19	
			For Aluminum, Add	2.63	
			For 304 Stainless Steel, Add	10.51	
			For 316 Stainless Steel, Add	12.05	
05 59 69 00-0008	SF		0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels.....	9.01	3.22
			For Up To 2, Add	2.66	
			For >2 To 6, Add	1.55	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.71	
			For Galvanized, Add	2.36	
			For Aluminum, Add	2.83	
			For 304 Stainless Steel, Add	11.30	
			For 316 Stainless Steel, Add	12.95	
05 59 69 00-0009	SF		0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels.....	10.32	3.59
			For Up To 2, Add	3.02	
			For >2 To 6, Add	1.75	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.83	
			For Galvanized, Add	2.77	
			For Aluminum, Add	3.32	
			For 304 Stainless Steel, Add	13.27	
			For 316 Stainless Steel, Add	15.21	
05 59 69 00-0010	SF		0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels.....	11.66	3.94
			For Up To 2, Add	3.38	
			For >2 To 6, Add	1.96	
			For >15 To 40, Deduct	-0.32	
			For >40, Deduct	-0.96	
			For Galvanized, Add	3.20	
			For Aluminum, Add	3.84	
			For 304 Stainless Steel, Add	15.36	
			For 316 Stainless Steel, Add	17.60	
05 59 69 00-0011	SF		0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels.....	13.32	4.39
			For Up To 2, Add	3.83	
			For >2 To 6, Add	2.21	
			For >15 To 40, Deduct	-0.37	
			For >40, Deduct	-1.12	
			For Galvanized, Add	3.74	
			For Aluminum, Add	4.48	
			For 304 Stainless Steel, Add	17.93	
			For 316 Stainless Steel, Add	20.54	
05 59 69 00-0012			1-3/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0013	SF		0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels	7.15	2.54
			For Up To 2, Add	2.10	
			For >2 To 6, Add	1.22	
			For >15 To 40, Deduct	-0.19	
			For >40, Deduct	-0.57	
			For Galvanized, Add	1.89	
			For Aluminum, Add	2.27	
			For 304 Stainless Steel, Add	9.07	
			For 316 Stainless Steel, Add	10.40	
05 59 69 00-0014	SF		0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels	7.84	2.67
			For Up To 2, Add	2.28	
			For >2 To 6, Add	1.32	
			For >15 To 40, Deduct	-0.21	
			For >40, Deduct	-0.64	
			For Galvanized, Add	2.14	
			For Aluminum, Add	2.57	
			For 304 Stainless Steel, Add	10.27	
			For 316 Stainless Steel, Add	11.77	
05 59 69 00-0015	SF		0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels	8.47	2.99
			For Up To 2, Add	2.49	
			For >2 To 6, Add	1.45	
			For >15 To 40, Deduct	-0.22	
			For >40, Deduct	-0.67	
			For Galvanized, Add	2.24	
			For Aluminum, Add	2.68	
			For 304 Stainless Steel, Add	10.73	
			For 316 Stainless Steel, Add	12.29	
05 59 69 00-0016	SF		0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels	8.83	3.09
			For Up To 2, Add	2.59	
			For >2 To 6, Add	1.50	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.71	
			For Galvanized, Add	2.36	
			For Aluminum, Add	2.83	
			For 304 Stainless Steel, Add	11.30	
			For 316 Stainless Steel, Add	12.95	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Specialties	05 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0017	SF		0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	9.69	3.46
			For Up To 2, Add	2.86	
			For >2 To 6, Add	1.66	
			For >15 To 40, Deduct	-0.25	
			For >40, Deduct	-0.76	
			For Galvanized, Add	2.54	
			For Aluminum, Add	3.04	
			For 304 Stainless Steel, Add	12.17	
			For 316 Stainless Steel, Add	13.94	
05 59 69 00-0018	SF		0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels	11.10	3.86
			For Up To 2, Add	3.25	
			For >2 To 6, Add	1.88	
			For >15 To 40, Deduct	-0.30	
			For >40, Deduct	-0.89	
			For Galvanized, Add	2.98	
			For Aluminum, Add	3.57	
			For 304 Stainless Steel, Add	14.28	
			For 316 Stainless Steel, Add	16.36	
05 59 69 00-0019	SF		0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels	12.53	4.25
			For Up To 2, Add	3.64	
			For >2 To 6, Add	2.10	
			For >15 To 40, Deduct	-0.34	
			For >40, Deduct	-1.03	
			For Galvanized, Add	3.44	
			For Aluminum, Add	4.12	
			For 304 Stainless Steel, Add	16.49	
			For 316 Stainless Steel, Add	18.89	
05 59 69 00-0020	SF		0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	14.33	4.72
			For Up To 2, Add	4.12	
			For >2 To 6, Add	2.38	
			For >15 To 40, Deduct	-0.40	
			For >40, Deduct	-1.21	
			For Galvanized, Add	4.02	
			For Aluminum, Add	4.82	
			For 304 Stainless Steel, Add	19.30	
			For 316 Stainless Steel, Add	22.11	
05 59 69 00-0021			1-1/2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0022	SF		0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels	7.93	2.81
			For Up To 2, Add	2.33	
			For >2 To 6, Add	1.35	
			For >15 To 40, Deduct	-0.21	
			For >40, Deduct	-0.63	
			For Galvanized, Add	2.10	
			For Aluminum, Add	2.51	
			For 304 Stainless Steel, Add	10.06	
			For 316 Stainless Steel, Add	11.52	
05 59 69 00-0023	SF		0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels	8.66	2.95
			For Up To 2, Add	2.52	
			For >2 To 6, Add	1.46	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.71	
			For Galvanized, Add	2.37	
			For Aluminum, Add	2.84	
			For 304 Stainless Steel, Add	11.35	
			For 316 Stainless Steel, Add	13.01	
05 59 69 00-0024	SF		0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	9.26	3.27
			For Up To 2, Add	2.73	
			For >2 To 6, Add	1.58	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.73	
			For Galvanized, Add	2.45	
			For Aluminum, Add	2.93	
			For 304 Stainless Steel, Add	11.74	
			For 316 Stainless Steel, Add	13.45	
05 59 69 00-0025	SF		0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels	9.75	3.41
			For Up To 2, Add	2.86	
			For >2 To 6, Add	1.66	
			For >15 To 40, Deduct	-0.26	
			For >40, Deduct	-0.78	
			For Galvanized, Add	2.60	
			For Aluminum, Add	3.12	
			For 304 Stainless Steel, Add	12.48	
			For 316 Stainless Steel, Add	14.30	
05 59 69 00-0026	SF		0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	10.65	3.81
			For Up To 2, Add	3.15	
			For >2 To 6, Add	1.83	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.84	
			For Galvanized, Add	2.79	
			For Aluminum, Add	3.34	
			For 304 Stainless Steel, Add	13.37	
			For 316 Stainless Steel, Add	15.32	

05 Metals**05 50 Metal Fabrications****05 59 Metal Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0027	SF		0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels	12.13	4.23
			For Up To 2, Add	3.55	
			For >2 To 6, Add	2.06	
			For >15 To 40, Deduct	-0.33	
			For >40, Deduct	-0.98	
			For Galvanized, Add	3.25	
			For Aluminum, Add	3.90	
			For 304 Stainless Steel, Add	15.60	
			For 316 Stainless Steel, Add	17.88	
05 59 69 00-0028	SF		0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels	13.71	4.65
			For Up To 2, Add	3.98	
			For >2 To 6, Add	2.30	
			For >15 To 40, Deduct	-0.38	
			For >40, Deduct	-1.13	
			For Galvanized, Add	3.76	
			For Aluminum, Add	4.51	
			For 304 Stainless Steel, Add	18.05	
			For 316 Stainless Steel, Add	20.68	
05 59 69 00-0029	SF		0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels	15.62	5.14
			For Up To 2, Add	4.49	
			For >2 To 6, Add	2.59	
			For >15 To 40, Deduct	-0.44	
			For >40, Deduct	-1.32	
			For Galvanized, Add	4.39	
			For Aluminum, Add	5.26	
			For 304 Stainless Steel, Add	21.05	
			For 316 Stainless Steel, Add	24.12	
05 59 69 00-0030 1-1/4" Square Wire Spacing (05 59 69 00-0002)					
05 59 69 00-0031	SF		0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels	8.16	3.03
			For Up To 2, Add	2.44	
			For >2 To 6, Add	1.43	
			For >15 To 40, Deduct	-0.21	
			For >40, Deduct	-0.62	
			For Galvanized, Add	2.05	
			For Aluminum, Add	2.46	
			For 304 Stainless Steel, Add	9.84	
			For 316 Stainless Steel, Add	11.28	
05 59 69 00-0032	SF		0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels	8.79	3.19
			For Up To 2, Add	2.61	
			For >2 To 6, Add	1.52	
			For >15 To 40, Deduct	-0.23	
			For >40, Deduct	-0.68	
			For Galvanized, Add	2.27	
			For Aluminum, Add	2.72	
			For 304 Stainless Steel, Add	10.90	
			For 316 Stainless Steel, Add	12.49	
05 59 69 00-0033	SF		0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	9.51	3.32
			For Up To 2, Add	2.79	
			For >2 To 6, Add	1.62	
			For >15 To 40, Deduct	-0.25	
			For >40, Deduct	-0.76	
			For Galvanized, Add	2.54	
			For Aluminum, Add	3.05	
			For 304 Stainless Steel, Add	12.19	
			For 316 Stainless Steel, Add	13.97	
05 59 69 00-0034	SF		0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels	9.79	3.38
			For Up To 2, Add	2.86	
			For >2 To 6, Add	1.66	
			For >15 To 40, Deduct	-0.26	
			For >40, Deduct	-0.79	
			For Galvanized, Add	2.64	
			For Aluminum, Add	3.17	
			For 304 Stainless Steel, Add	12.67	
			For 316 Stainless Steel, Add	14.52	
05 59 69 00-0035	SF		0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	10.65	3.82
			For Up To 2, Add	3.15	
			For >2 To 6, Add	1.83	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.83	
			For Galvanized, Add	2.78	
			For Aluminum, Add	3.34	
			For 304 Stainless Steel, Add	13.34	
			For 316 Stainless Steel, Add	15.29	
05 59 69 00-0036	SF		0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels	12.01	4.30
			For Up To 2, Add	3.55	
			For >2 To 6, Add	2.06	
			For >15 To 40, Deduct	-0.31	
			For >40, Deduct	-0.94	
			For Galvanized, Add	3.14	
			For Aluminum, Add	3.77	
			For 304 Stainless Steel, Add	15.07	
			For 316 Stainless Steel, Add	17.27	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Specialties	05 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0037	SF		0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	13.61	4.74
			For Up To 2, Add	3.99	
			For >2 To 6, Add	2.31	
			For >15 To 40, Deduct	-0.36	
			For >40, Deduct	-1.09	
			For Galvanized, Add	3.65	
			For Aluminum, Add	4.37	
			For 304 Stainless Steel, Add	17.50	
			For 316 Stainless Steel, Add	20.05	
05 59 69 00-0038	SF		0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels	15.31	5.18
			For Up To 2, Add	4.44	
			For >2 To 6, Add	2.57	
			For >15 To 40, Deduct	-0.42	
			For >40, Deduct	-1.26	
			For Galvanized, Add	4.20	
			For Aluminum, Add	5.04	
			For 304 Stainless Steel, Add	20.16	
			For 316 Stainless Steel, Add	23.10	
05 59 69 00-0039	SF		0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	17.48	5.76
			For Up To 2, Add	5.03	
			For >2 To 6, Add	2.90	
			For >15 To 40, Deduct	-0.49	
			For >40, Deduct	-1.47	
			For Galvanized, Add	4.91	
			For Aluminum, Add	5.89	
			For 304 Stainless Steel, Add	23.54	
			For 316 Stainless Steel, Add	26.98	
05 59 69 00-0040 1" Square Wire Spacing (05 59 69 00-0002)					
05 59 69 00-0041	SF		0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels	9.33	3.56
			For Up To 2, Add	2.81	
			For >2 To 6, Add	1.64	
			For >15 To 40, Deduct	-0.23	
			For >40, Deduct	-0.69	
			For Galvanized, Add	2.30	
			For Aluminum, Add	2.75	
			For 304 Stainless Steel, Add	11.02	
			For 316 Stainless Steel, Add	12.62	
05 59 69 00-0042	SF		0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	9.98	3.70
			For Up To 2, Add	2.98	
			For >2 To 6, Add	1.74	
			For >15 To 40, Deduct	-0.25	
			For >40, Deduct	-0.76	
			For Galvanized, Add	2.52	
			For Aluminum, Add	3.02	
			For 304 Stainless Steel, Add	12.10	
			For 316 Stainless Steel, Add	13.86	
05 59 69 00-0043	SF		0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	10.39	3.86
			For Up To 2, Add	3.11	
			For >2 To 6, Add	1.81	
			For >15 To 40, Deduct	-0.26	
			For >40, Deduct	-0.78	
			For Galvanized, Add	2.62	
			For Aluminum, Add	3.14	
			For 304 Stainless Steel, Add	12.55	
			For 316 Stainless Steel, Add	14.38	
05 59 69 00-0044	SF		0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels	11.08	3.92
			For Up To 2, Add	3.26	
			For >2 To 6, Add	1.89	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.88	
			For Galvanized, Add	2.93	
			For Aluminum, Add	3.51	
			For 304 Stainless Steel, Add	14.04	
			For 316 Stainless Steel, Add	16.09	
05 59 69 00-0045	SF		0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	12.34	4.42
			For Up To 2, Add	3.65	
			For >2 To 6, Add	2.12	
			For >15 To 40, Deduct	-0.32	
			For >40, Deduct	-0.97	
			For Galvanized, Add	3.22	
			For Aluminum, Add	3.86	
			For 304 Stainless Steel, Add	15.46	
			For 316 Stainless Steel, Add	17.71	
05 59 69 00-0046	SF		0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels	13.84	4.95
			For Up To 2, Add	4.09	
			For >2 To 6, Add	2.37	
			For >15 To 40, Deduct	-0.36	
			For >40, Deduct	-1.09	
			For Galvanized, Add	3.62	
			For Aluminum, Add	4.34	
			For 304 Stainless Steel, Add	17.38	
			For 316 Stainless Steel, Add	19.91	

05 Metals**05 50 Metal Fabrications****05 59 Metal Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0047	SF		0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels.....	15.79	5.49
			For Up To 2, Add	4.62	
			For >2 To 6, Add	2.68	
			For >15 To 40, Deduct	-0.42	
			For >40, Deduct	-1.27	
			For Galvanized, Add	4.23	
			For Aluminum, Add	5.08	
			For 304 Stainless Steel, Add	20.30	
			For 316 Stainless Steel, Add	23.27	
05 59 69 00-0048	SF		0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels.....	17.72	6.01
			For Up To 2, Add	5.14	
			For >2 To 6, Add	2.97	
			For >15 To 40, Deduct	-0.49	
			For >40, Deduct	-1.46	
			For Galvanized, Add	4.86	
			For Aluminum, Add	5.83	
			For 304 Stainless Steel, Add	23.33	
			For 316 Stainless Steel, Add	26.73	
05 59 69 00-0049	SF		0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels.....	20.18	6.64
			For Up To 2, Add	5.81	
			For >2 To 6, Add	3.35	
			For >15 To 40, Deduct	-0.57	
			For >40, Deduct	-1.70	
			For Galvanized, Add	5.66	
			For Aluminum, Add	6.79	
			For 304 Stainless Steel, Add	27.17	
			For 316 Stainless Steel, Add	31.13	
05 59 69 00-0050 3/4" Square Wire Spacing (05 59 69 00-0002)					
05 59 69 00-0051	SF		0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels.....	9.43	3.55
			For Up To 2, Add	2.83	
			For >2 To 6, Add	1.65	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.71	
			For Galvanized, Add	2.35	
			For Aluminum, Add	2.82	
			For 304 Stainless Steel, Add	11.28	
			For 316 Stainless Steel, Add	12.93	
05 59 69 00-0052	SF		0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels.....	10.53	3.99
			For Up To 2, Add	3.17	
			For >2 To 6, Add	1.85	
			For >15 To 40, Deduct	-0.26	
			For >40, Deduct	-0.78	
			For Galvanized, Add	2.62	
			For Aluminum, Add	3.14	
			For 304 Stainless Steel, Add	12.55	
			For 316 Stainless Steel, Add	14.38	
05 59 69 00-0053	SF		0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels.....	11.69	4.50
			For Up To 2, Add	3.54	
			For >2 To 6, Add	2.07	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.85	
			For Galvanized, Add	2.85	
			For Aluminum, Add	3.41	
			For 304 Stainless Steel, Add	13.66	
			For 316 Stainless Steel, Add	15.65	
05 59 69 00-0054	SF		0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels.....	12.62	4.80
			For Up To 2, Add	3.80	
			For >2 To 6, Add	2.22	
			For >15 To 40, Deduct	-0.31	
			For >40, Deduct	-0.93	
			For Galvanized, Add	3.11	
			For Aluminum, Add	3.73	
			For 304 Stainless Steel, Add	14.93	
			For 316 Stainless Steel, Add	17.11	
05 59 69 00-0055	SF		0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels.....	14.56	5.39
			For Up To 2, Add	4.35	
			For >2 To 6, Add	2.54	
			For >15 To 40, Deduct	-0.37	
			For >40, Deduct	-1.10	
			For Galvanized, Add	3.68	
			For Aluminum, Add	4.42	
			For 304 Stainless Steel, Add	17.66	
			For 316 Stainless Steel, Add	20.24	
05 59 69 00-0056	SF		0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels.....	16.70	6.03
			For Up To 2, Add	4.95	
			For >2 To 6, Add	2.88	
			For >15 To 40, Deduct	-0.43	
			For >40, Deduct	-1.30	
			For Galvanized, Add	4.33	
			For Aluminum, Add	5.20	
			For 304 Stainless Steel, Add	20.78	
			For 316 Stainless Steel, Add	23.82	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Specialties	05 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0057	SF		0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels	18.98	6.67
			For Up To 2, Add	5.58	
			For >2 To 6, Add	3.23	
			For >15 To 40, Deduct	-0.50	
			For >40, Deduct	-1.51	
			For Galvanized, Add	5.04	
			For Aluminum, Add	6.05	
			For 304 Stainless Steel, Add	24.19	
			For 316 Stainless Steel, Add	27.72	
05 59 69 00-0058	SF		0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels	21.20	7.25
			For Up To 2, Add	6.17	
			For >2 To 6, Add	3.57	
			For >15 To 40, Deduct	-0.58	
			For >40, Deduct	-1.73	
			For Galvanized, Add	5.77	
			For Aluminum, Add	6.92	
			For 304 Stainless Steel, Add	27.70	
			For 316 Stainless Steel, Add	31.74	
05 59 69 00-0059	SF		0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels	24.12	8.02
			For Up To 2, Add	6.96	
			For >2 To 6, Add	4.02	
			For >15 To 40, Deduct	-0.67	
			For >40, Deduct	-2.01	
			For Galvanized, Add	6.72	
			For Aluminum, Add	8.06	
			For 304 Stainless Steel, Add	32.23	
			For 316 Stainless Steel, Add	36.93	
05 59 69 00-0060 1/2" Square Wire Spacing (05 59 69 00-0002)					
05 59 69 00-0061	SF		0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels	9.87	3.80
			For Up To 2, Add	2.99	
			For >2 To 6, Add	1.75	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.72	
			For Galvanized, Add	2.41	
			For Aluminum, Add	2.89	
			For 304 Stainless Steel, Add	11.54	
			For 316 Stainless Steel, Add	13.23	
05 59 69 00-0062	SF		0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels	11.60	4.62
			For Up To 2, Add	3.55	
			For >2 To 6, Add	2.09	
			For >15 To 40, Deduct	-0.27	
			For >40, Deduct	-0.81	
			For Galvanized, Add	2.72	
			For Aluminum, Add	3.26	
			For 304 Stainless Steel, Add	13.03	
			For 316 Stainless Steel, Add	14.93	
05 59 69 00-0063	SF		0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels	13.99	5.46
			For Up To 2, Add	4.26	
			For >2 To 6, Add	2.49	
			For >15 To 40, Deduct	-0.34	
			For >40, Deduct	-1.01	
			For Galvanized, Add	3.35	
			For Aluminum, Add	4.02	
			For 304 Stainless Steel, Add	16.08	
			For 316 Stainless Steel, Add	18.43	
05 59 69 00-0064	SF		0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	16.09	6.13
			For Up To 2, Add	4.85	
			For >2 To 6, Add	2.84	
			For >15 To 40, Deduct	-0.40	
			For >40, Deduct	-1.19	
			For Galvanized, Add	3.96	
			For Aluminum, Add	4.75	
			For 304 Stainless Steel, Add	18.98	
			For 316 Stainless Steel, Add	21.75	
05 59 69 00-0065	SF		0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels	18.43	6.84
			For Up To 2, Add	5.51	
			For >2 To 6, Add	3.21	
			For >15 To 40, Deduct	-0.47	
			For >40, Deduct	-1.40	
			For Galvanized, Add	4.65	
			For Aluminum, Add	5.58	
			For 304 Stainless Steel, Add	22.32	
			For 316 Stainless Steel, Add	25.58	
05 59 69 00-0066	SF		0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels	21.08	7.63
			For Up To 2, Add	6.25	
			For >2 To 6, Add	3.63	
			For >15 To 40, Deduct	-0.55	
			For >40, Deduct	-1.64	
			For Galvanized, Add	5.46	
			For Aluminum, Add	6.55	
			For 304 Stainless Steel, Add	26.18	
			For 316 Stainless Steel, Add	30.00	

05 Metals**05 50 Metal Fabrications****05 59 Metal Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0067	SF		0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels.....	23.80	8.38
			For Up To 2, Add	7.00	
			For >2 To 6, Add	4.06	
			For >15 To 40, Deduct	-0.63	
			For >40, Deduct	-1.89	
			For Galvanized, Add	6.31	
			For Aluminum, Add	7.57	
			For 304 Stainless Steel, Add	30.29	
			For 316 Stainless Steel, Add	34.71	
05 59 69 00-0068	SF		0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels.....	26.52	9.10
			For Up To 2, Add	7.73	
			For >2 To 6, Add	4.47	
			For >15 To 40, Deduct	-0.72	
			For >40, Deduct	-2.16	
			For Galvanized, Add	7.20	
			For Aluminum, Add	8.64	
			For 304 Stainless Steel, Add	34.56	
			For 316 Stainless Steel, Add	39.60	
05 59 69 00-0069	SF		0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels.....	27.73	10.00
			For Up To 2, Add	8.21	
			For >2 To 6, Add	4.77	
			For >15 To 40, Deduct	-0.72	
			For >40, Deduct	-2.16	
			For Galvanized, Add	7.20	
			For Aluminum, Add	8.64	
			For 304 Stainless Steel, Add	34.56	
			For 316 Stainless Steel, Add	39.60	
05 59 69 00-0070			Expanded Metal Panels (05 59 69)		
			Note: Excludes frame and fastening to frame. See CSI section 05 12 23 00-0129 for spot welding.		
05 59 69 00-0071			Plain Flattened Expanded Metal Diamond Shape Panels (05 59 69 00-0070)		
			Note: Excludes frame and fastening to frame. See CSI section 05 12 23 00-0129 for spot welding.		
05 59 69 00-0072	SF		1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF	8.52	3.27
			For Galvanized, Add	2.08	
			For Aluminum, Add	2.49	
			For 304 Stainless Steel, Add	9.96	
			For 316 Stainless Steel, Add	11.41	
05 59 69 00-0073	SF		1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF	10.65	3.59
			For Galvanized, Add	2.93	
			For Aluminum, Add	3.52	
			For 304 Stainless Steel, Add	14.06	
			For 316 Stainless Steel, Add	16.12	
05 59 69 00-0074	SF		1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF	6.15	2.54
			For Galvanized, Add	1.39	
			For Aluminum, Add	1.67	
			For 304 Stainless Steel, Add	6.67	
			For 316 Stainless Steel, Add	7.65	
05 59 69 00-0075	SF		1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF	6.73	2.76
			For Galvanized, Add	1.53	
			For Aluminum, Add	1.83	
			For 304 Stainless Steel, Add	7.32	
			For 316 Stainless Steel, Add	8.39	
05 59 69 00-0076	SF		1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF	7.63	3.27
			For Galvanized, Add	1.63	
			For Aluminum, Add	1.96	
			For 304 Stainless Steel, Add	7.82	
			For 316 Stainless Steel, Add	8.97	
05 59 69 00-0077	SF		1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF	9.77	4.23
			For Galvanized, Add	2.07	
			For Aluminum, Add	2.48	
			For 304 Stainless Steel, Add	9.94	
			For 316 Stainless Steel, Add	11.39	
05 59 69 00-0078	SF		3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF	5.40	2.49
			For Galvanized, Add	1.04	
			For Aluminum, Add	1.25	
			For 304 Stainless Steel, Add	4.99	
			For 316 Stainless Steel, Add	5.72	
05 59 69 00-0079	SF		3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF	6.04	2.67
			For Galvanized, Add	1.24	
			For Aluminum, Add	1.49	
			For 304 Stainless Steel, Add	5.95	
			For 316 Stainless Steel, Add	6.82	
05 59 69 00-0080	SF		3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF	6.89	2.99
			For Galvanized, Add	1.45	
			For Aluminum, Add	1.73	
			For 304 Stainless Steel, Add	6.94	
			For 316 Stainless Steel, Add	7.95	
05 59 69 00-0081	SF		3/4" #9-F Plain Expanded Metal Panel, 1.71 LB/SF	10.88	4.95
			For Galvanized, Add	2.14	
			For Aluminum, Add	2.57	
			For 304 Stainless Steel, Add	10.27	
			For 316 Stainless Steel, Add	11.77	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Specialties	05 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0082	SF		1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF	6.07	3.03
			For Galvanized, Add	1.01	
			For Aluminum, Add	1.21	
			For 304 Stainless Steel, Add	4.82	
			For 316 Stainless Steel, Add	5.53	
05 59 69 00-0083	SF		1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF	5.21	2.39
			For Galvanized, Add	1.01	
			For Aluminum, Add	1.21	
			For 304 Stainless Steel, Add	4.85	
			For 316 Stainless Steel, Add	5.56	
05 59 69 00-0084	SF		1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF	6.02	2.81
			For Galvanized, Add	1.14	
			For Aluminum, Add	1.37	
			For 304 Stainless Steel, Add	5.47	
			For 316 Stainless Steel, Add	6.27	
05 59 69 00-0085	SF		1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF	9.26	3.80
			For Galvanized, Add	2.10	
			For Aluminum, Add	2.52	
			For 304 Stainless Steel, Add	10.08	
			For 316 Stainless Steel, Add	11.55	

05 70 Decorative Metal⁽⁰⁵⁾

Note: Includes anchors and related accessories.

05 71 Decorative Metal Stairs^(05 70)

05 71 13 Fabricated Metal Spiral Stairs^(05 71)

Note: Includes factory prime.

05 71 13 00-0001 Spiral Stairs, Stock Units^(05 71 13)

Note: Includes factory prime.

05 71 13 00-0002 Steel Tread^(05 71 13 00-0001)

05 71 13 00-0003	VLF		3'-6" Diameter, Spiral Steel Stair With Rails	261.31	43.18
			For Galvanized, Add	122.47	
05 71 13 00-0004	VLF		4' Diameter, Spiral Steel Stair With Rails	296.40	47.50
			For Galvanized, Add	140.98	
05 71 13 00-0005	VLF		4'-6" Diameter, Spiral Steel Stair With Rails	327.41	51.82
			For Galvanized, Add	156.64	
05 71 13 00-0006	VLF		5' Diameter, Spiral Steel Stair With Rails	351.30	56.13
			For Galvanized, Add	167.32	

05 73 Decorative Metal Railings^(05 70)

Note: Factory primed. Includes brackets.

05 73 00 00-0001 Railings; Vertical Square Bars At 6"^(05 73)

Note: Centers with shaped top rails (round, square, rectangular, diamond, triangular or other shape).

05 73 00 00-0002	LF		Steel Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	64.54	9.50
			For Rake Or Angle Railings, Add	8.62	
			For Curved Railings, Add	18.08	
			For 4" On Center Standards, Add	1.97	
			For 4-1/2" On Center Standards, Add	1.58	
			For 5" On Center Standards, Add	1.05	
			For 5-1/2" On Center Standards, Add	0.53	
			For Each Field Bending Of Rails, Add	12.07	
			For Galvanized, Add	3.68	
05 73 00 00-0003	LF		Aluminum Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	81.72	12.96
			For Rake Or Angle Railings, Add	11.39	
			For Curved Railings, Add	21.56	
			For 4" On Center Standards, Add	2.18	
			For 4-1/2" On Center Standards, Add	1.74	
			For 5" On Center Standards, Add	1.16	
			For 5-1/2" On Center Standards, Add	0.58	
			For Each Field Bending Of Rails, Add	15.66	
05 73 00 00-0004	LF		Bronze Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	193.39	21.59
			For Rake Or Angle Railings, Add	21.43	
			For Curved Railings, Add	66.57	
			For 4" On Center Standards, Add	8.80	
			For 4-1/2" On Center Standards, Add	7.04	
			For 5" On Center Standards, Add	4.70	
			For 5-1/2" On Center Standards, Add	2.35	
			For Each Field Bending Of Rails, Add	21.50	
05 73 00 00-0005	LF		Stainless Steel Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	207.98	17.27
			For Rake Or Angle Railings, Add	21.72	
			For Curved Railings, Add	75.31	
			For 4" On Center Standards, Add	10.34	
			For 4-1/2" On Center Standards, Add	8.27	
			For 5" On Center Standards, Add	5.51	
			For 5-1/2" On Center Standards, Add	2.76	
			For Each Field Bending Of Rails, Add	20.04	

05 Metals**05 70 Decorative Metal****05 73 Decorative Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 73 00 00-0006 LF Black Wrought Iron Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	145.03	26.34
For Rake Or Angle Railings, Add	15.58	
For Curved Railings, Add	51.31	
For 4" On Center Standards, Add	6.93	
For 4-1/2" On Center Standards, Add	5.54	
For 5" On Center Standards, Add	3.69	
For 5-1/2" On Center Standards, Add	1.85	
For Each Field Bending Of Rails, Add	15.67	
05 73 00 00-0007 Laminated Metal Or Wood Handrails With Metal Supports (05 73)		
05 73 00 00-0008 LF 2-1/2" Laminated Metal Or Wood Handrail Round/Oval Shape With Metal Supports	92.17	4.32
For Rake Or Angle Railings, Add	7.83	
For Curved Railings, Add	38.41	
For 4" On Center Standards, Add	5.76	
For 4-1/2" On Center Standards, Add	4.61	
For 5" On Center Standards, Add	3.07	
For 5-1/2" On Center Standards, Add	1.54	
For Each Field Bending Of Rails, Add	6.34	
05 73 00 00-0009 Plain Handrails (05 73)		
05 73 00 00-0010 LF 2" Brass Handrail	34.94	9.56
05 73 00 00-0011 EA 90 Degree Angle For 2" Brass Handrail	85.46	34.26
05 73 00 00-0012 EA End Cap For 2" Brass Handrail	40.54	17.18
05 73 00 00-0013 EA Brass Bracket And Joint For 2" Brass Handrail	65.60	34.26
05 73 00 00-0014 LF 2" Stainless Steel Handrail	62.99	17.38
05 73 00 00-0015 Restoration Of Existing Metal Handrail And Railing (05 73)		
Note: Task includes rust removal by grinding, cleaning, surface prep and one coat of protective primer.		
05 73 00 00-0016 LF Refinish Metal Handrail	8.64	
05 73 00 00-0017 LF Refinish Wrought Iron Balustrade	8.60	
05 73 00 00-0018 Remove And Reinstall Ornamental Railing (05 73)		
05 73 00 00-0019 LF Removal And Reinstallation Of Ornamental Handrail And Pickets	79.45	
05 75 Decorative Formed Metal (05 70)		
05 75 00 00-0001 Metal Sheets, Installed On Walls (05 75)		
Note: Includes field fabrication (bending) where noted. See CSI section 05 54 00 00-0000 for metal floor plates.		
05 75 00 00-0002 Copper Sheets, Installed On Walls (05 75 00 00-0001)		
Note: Includes field fabrication.		
05 75 00 00-0003 SF 0.0162" (12 Ounce) Thick Copper Sheet, Installed On Walls	16.29	1.89
For >16 To 200, Deduct	-1.00	
For >200 To 500, Deduct	-2.01	
For >500, Deduct	-2.82	
05 75 00 00-0004 SF 0.0215" (16 Ounce) Thick Copper Sheet, Installed On Walls	19.71	2.11
For >16 To 200, Deduct	-1.20	
For >200 To 500, Deduct	-2.39	
For >500, Deduct	-3.38	
05 75 00 00-0005 SF 0.0242" (18 Ounce) Thick Copper Sheet, Installed On Walls	21.50	2.28
For >16 To 200, Deduct	-1.30	
For >200 To 500, Deduct	-2.61	
For >500, Deduct	-3.68	
05 75 00 00-0006 SF 0.027" (20 Ounce) Thick Copper Sheet, Installed On Walls	23.06	2.39
For >16 To 200, Deduct	-1.39	
For >200 To 500, Deduct	-2.78	
For >500, Deduct	-3.94	
05 75 00 00-0007 SF 0.0323" (24 Ounce) Thick Copper Sheet, Installed On Walls	25.76	2.50
For >16 To 200, Deduct	-1.54	
For >200 To 500, Deduct	-3.08	
For >500, Deduct	-4.37	
05 75 00 00-0008 SF 0.0431" (32 Ounce) Thick Copper Sheet, Installed On Walls	31.31	2.61
For >16 To 200, Deduct	-1.83	
For >200 To 500, Deduct	-3.66	
For >500, Deduct	-5.22	
05 75 00 00-0009 SF 0.052" (40 Ounce) Thick Copper Sheet, Installed On Walls	35.87	2.74
For >16 To 200, Deduct	-2.07	
For >200 To 500, Deduct	-4.13	
For >500, Deduct	-5.93	
05 75 00 00-0010 SF 0.0646" (48 Ounce) Thick Copper Sheet, Installed On Walls	42.61	2.96
For >16 To 200, Deduct	-2.43	
For >200 To 500, Deduct	-4.85	
For >500, Deduct	-6.98	
05 75 00 00-0011 SF 0.08" Thick Copper Sheet, Installed On Walls	51.26	3.19
For >16 To 200, Deduct	-2.88	
For >200 To 500, Deduct	-5.76	
For >500, Deduct	-8.33	



		Metals	05	05
		Decorative Metal	05 70	
		Decorative Formed Metal	05 75	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 75 00 00-0012	SF		0.125" Thick Copper Sheet, Installed On Walls	72.22	3.41
			For >16 To 200, Deduct	-3.95	
			For >200 To 500, Deduct	-7.91	
			For >500, Deduct	-11.52	
05 75 00 00-0013 Stainless Steel Sheets, Installed On Walls (05 75 00 00-0001)					
Note: Includes field fabrication.					
05 75 00 00-0014	SF		0.026" Thick (24 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	16.39	2.91
			For 316 Stainless Steel, Add	1.43	
			For >16 To 200, Deduct	-1.11	
			For >200 To 500, Deduct	-2.22	
			For >500, Deduct	-3.04	
05 75 00 00-0015	SF		0.0312" Thick (22 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	18.13	3.13
			For 316 Stainless Steel, Add	1.68	
			For >16 To 200, Deduct	-1.22	
			For >200 To 500, Deduct	-2.44	
			For >500, Deduct	-3.35	
05 75 00 00-0016	SF		0.0375" Thick (20 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	19.70	3.35
			For 316 Stainless Steel, Add	1.88	
			For >16 To 200, Deduct	-1.32	
			For >200 To 500, Deduct	-2.64	
			For >500, Deduct	-3.63	
05 75 00 00-0017	SF		0.050" Thick (18 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	23.19	3.80
			For 316 Stainless Steel, Add	2.39	
			For >16 To 200, Deduct	-1.54	
			For >200 To 500, Deduct	-3.08	
			For >500, Deduct	-4.24	
05 75 00 00-0018	SF		0.0625" Thick (16 gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	26.63	4.25
			For 316 Stainless Steel, Add	2.89	
			For >16 To 200, Deduct	-1.76	
			For >200 To 500, Deduct	-3.51	
			For >500, Deduct	-4.85	
05 75 00 00-0019	SF		0.078" Thick (14 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	31.43	4.92
			For 316 Stainless Steel, Add	3.53	
			For >16 To 200, Deduct	-2.06	
			For >200 To 500, Deduct	-4.13	
			For >500, Deduct	-5.70	
05 75 00 00-0020	SF		0.125" Thick (11 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	39.93	5.37
			For 316 Stainless Steel, Add	5.54	
			For >16 To 200, Deduct	-2.53	
			For >200 To 500, Deduct	-5.07	
			For >500, Deduct	-7.06	
05 75 00 00-0021	SF		3/16" Thick (7 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	50.16	5.82
			For 316 Stainless Steel, Add	8.07	
			For >16 To 200, Deduct	-3.09	
			For >200 To 500, Deduct	-6.18	
			For >500, Deduct	-8.69	
05 75 00 00-0022	SF		1/4" Thick (3 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	63.00	6.27
			For 316 Stainless Steel, Add	11.38	
			For >16 To 200, Deduct	-3.78	
			For >200 To 500, Deduct	-7.55	
			For >500, Deduct	-10.70	
05 75 00 00-0023	SF		3/8" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls	95.41	6.71
			For 316 Stainless Steel, Add	20.57	
			For >16 To 200, Deduct	-5.44	
			For >200 To 500, Deduct	-10.88	
			For >500, Deduct	-15.65	
05 75 00 00-0024	SF		1/2" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls	120.08	7.83
			For 316 Stainless Steel, Add	26.63	
			For >16 To 200, Deduct	-6.79	
			For >200 To 500, Deduct	-13.57	
			For >500, Deduct	-19.58	
05 75 00 00-0025 Aluminum Sheets, Installed On Walls (05 75 00 00-0001)					
Note: Includes field fabrication.					
05 75 00 00-0026	SF		0.016" Thick (26 Gauge) Aluminum Sheet, Installed On Walls	9.70	1.89
			For >16 To 200, Deduct	-0.67	
			For >200 To 500, Deduct	-1.35	
			For >500, Deduct	-1.83	
05 75 00 00-0027	SF		0.020" Thick (24 Gauge) Aluminum Sheet, Installed On Walls	10.91	2.11
			For >16 To 200, Deduct	-0.76	
			For >200 To 500, Deduct	-1.51	
			For >500, Deduct	-2.06	
05 75 00 00-0028	SF		0.025" Thick (22 Gauge) Aluminum Sheet, Installed On Walls	12.02	2.28
			For >16 To 200, Deduct	-0.83	
			For >200 To 500, Deduct	-1.66	
			For >500, Deduct	-2.26	
05 75 00 00-0029	SF		0.032" Thick (20 Gauge) Aluminum Sheet, Installed On Walls	13.06	2.39
			For >16 To 200, Deduct	-0.89	
			For >200 To 500, Deduct	-1.78	
			For >500, Deduct	-2.44	

05 Metals**05 70 Decorative Metal****05 75 Decorative Formed Metal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 75 00 00-0030 SF 0.040" Thick (18 Gauge) Aluminum Sheet, Installed On Walls	14.08	2.50
For >16 To 200, Deduct	-0.95	
For >200 To 500, Deduct	-1.91	
For >500, Deduct	-2.61	
05 75 00 00-0031 SF 0.050" Thick (16 Gauge) Aluminum Sheet, Installed On Walls	15.18	2.61
For >16 To 200, Deduct	-1.02	
For >200 To 500, Deduct	-2.04	
For >500, Deduct	-2.80	
05 75 00 00-0032 SF 0.064" Thick (14 Gauge) Aluminum Sheet, Installed On Walls	16.48	2.74
For >16 To 200, Deduct	-1.10	
For >200 To 500, Deduct	-2.19	
For >500, Deduct	-3.02	
05 75 00 00-0033 SF 0.090" Thick (11 Gauge) Aluminum Sheet, Installed On Walls	19.48	3.19
For >16 To 200, Deduct	-1.29	
For >200 To 500, Deduct	-2.59	
For >500, Deduct	-3.56	
05 75 00 00-0034 Galvanized Steel Sheets, Installed On Walls (05 75 00 00-0001)		
Note: Includes field fabrication.		
05 75 00 00-0035 SF 0.0217" (26 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	10.82	2.17
For >16 To 200, Deduct	-0.76	
For >200 To 500, Deduct	-1.51	
For >500, Deduct	-2.06	
05 75 00 00-0036 SF 0.0276" (24 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	11.50	2.28
For >16 To 200, Deduct	-0.80	
For >200 To 500, Deduct	-1.61	
For >500, Deduct	-2.18	
05 75 00 00-0037 SF 0.0336" (22 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	12.01	2.39
For >16 To 200, Deduct	-0.84	
For >200 To 500, Deduct	-1.68	
For >500, Deduct	-2.28	
05 75 00 00-0038 SF 0.0396" (20 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	12.69	2.50
For >16 To 200, Deduct	-0.89	
For >200 To 500, Deduct	-1.77	
For >500, Deduct	-2.40	
05 75 00 00-0039 SF 0.0516" (18 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	13.54	2.61
For >16 To 200, Deduct	-0.94	
For >200 To 500, Deduct	-1.88	
For >500, Deduct	-2.56	
05 75 00 00-0040 SF 0.0635" (16 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	14.43	2.74
For >16 To 200, Deduct	-0.99	
For >200 To 500, Deduct	-1.99	
For >500, Deduct	-2.71	
05 75 00 00-0041 SF 0.0785" (14 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	16.25	2.96
For >16 To 200, Deduct	-1.11	
For >200 To 500, Deduct	-2.22	
For >500, Deduct	-3.03	
05 75 00 00-0042 SF 0.1084" (12 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	18.27	3.19
For >16 To 200, Deduct	-1.23	
For >200 To 500, Deduct	-2.47	
For >500, Deduct	-3.38	
05 75 00 00-0043 SF 0.1382" (10 Gauge) Thick Galvanized Steel Sheet, Installed On Walls	20.01	3.41
For >16 To 200, Deduct	-1.34	
For >200 To 500, Deduct	-2.68	
For >500, Deduct	-3.68	
05 75 00 00-0044 Galvanized Zinc-Plated Steel Sheets, Installed On Walls (05 75 00 00-0001)		
Note: Includes field fabrication.		
05 75 00 00-0045 SF 0.013" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls	8.61	1.67
For >16 To 200, Deduct	-0.60	
For >200 To 500, Deduct	-1.20	
For >500, Deduct	-1.63	
05 75 00 00-0046 SF 0.016" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls	9.89	1.89
For >16 To 200, Deduct	-0.68	
For >200 To 500, Deduct	-1.37	
For >500, Deduct	-1.86	
05 75 00 00-0047 SF 0.019" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls	11.14	2.11
For >16 To 200, Deduct	-0.77	
For >200 To 500, Deduct	-1.54	
For >500, Deduct	-2.09	
05 75 00 00-0048 SF 0.024" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls	12.22	2.28
For >16 To 200, Deduct	-0.84	
For >200 To 500, Deduct	-1.68	
For >500, Deduct	-2.29	

END OF SECTION 05



Thermal And Moisture Protection		07
Operation And Maintenance Of Thermal And Moisture Protection		07 01
Maintenance Of Membrane Roofing		07 01 50

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 01 Operation And Maintenance Of Thermal And Moisture Protection⁽⁰⁷⁾

07 01 50 Maintenance Of Membrane Roofing^(07 01)

07 01 50 19 Preparation For Re-Roofing^(07 01 50)

07 01 50 19-0001 Preparation For Re-Roofing^(07 01 50 19)

07 01 50 19-0002	SQ	Remove Pea Gravel Ballast From Roof, Vacuum And Disposal.....	19.34
07 01 50 19-0003	SQ	Remove Gravel Ballast From Roof, Vacuum And Disposal	32.23

07 01 50 91 Roofing Restoration^(07 01 50)

07 01 50 91-0001 Pressure Wash Membrane Roofing^(07 01 50 91)

07 01 50 91-0002	SF	Up To 2,500 PSI, Pressure Wash Membrane Roofing	0.13
		For Up To 100, Add	0.10
		For >100 To 250, Add	0.05
		For >250 To 500, Add	0.02
		For >5,000 To 10,000, Deduct	-0.01
		For >10,000 To 15,000, Deduct	-0.01
		For >15,000 To 30,000, Deduct	-0.02
		For >30,000, Deduct	-0.03

07 05 Common Work Results For Thermal And Moisture Protection⁽⁰⁷⁾

07 05 13 Small Quantities And Repairs For Roofing^(07 05)

07 05 13 00-0001 Small Quantity Labor Set-Up Charge^(07 05 13)

Note: For use with all roofing tasks where the total roof quantity is 4 squares or less. This adjustment is to allow for minimum charge for labor. Excludes material cost or labor to install material.

07 05 13 00-0002	EA	Labor Crew Up-Charge For 1 SQ Or Less.....	917.93
07 05 13 00-0003	EA	Labor Crew Up-Charge For >1 To 2 SQ	686.79
07 05 13 00-0004	EA	Labor Crew Up-Charge For >2 To 3 SQ	458.96
07 05 13 00-0005	EA	Labor Crew Up-Charge For >3 To 4 SQ	228.93

07 05 13 00-0006 Roof Repair^(07 05 13)

Note: Less than 100 SF areas.

07 05 13 00-0007	SF	Roof Repair, Built-Up Roofing, Up To 10 SF	18.51
07 05 13 00-0008	SF	Roof Repair, Built-Up Roofing, >10 To 25 SF	16.68
07 05 13 00-0009	SF	Roof Repair, Built-Up Roofing, >25 To 50 SF	15.22
07 05 13 00-0010	SF	Roof Repair, Built-Up Roofing, >50 To 100 SF	14.15
07 05 13 00-0011	SF	Roof Repair, Membrane Roofing, Up To 10 SF	21.17
07 05 13 00-0012	SF	Roof Repair, Membrane Roofing, >10 To 25 SF	19.34
07 05 13 00-0013	SF	Roof Repair, Membrane Roofing, >25 To 50 SF	17.88
07 05 13 00-0014	SF	Roof Repair, Membrane Roofing, >50 To 100 SF	16.82
07 05 13 00-0015	SF	Roof Repair, Shingle Roofing, Up To 10 SF	15.86
07 05 13 00-0016	SF	Roof Repair, Shingle Roofing, >10 To 25 SF	14.29
07 05 13 00-0017	SF	Roof Repair, Shingle Roofing, >25 To 50 SF	13.10
07 05 13 00-0018	SF	Roof Repair, Shingle Roofing, >50 To 100 SF	12.30
07 05 13 00-0019	LF	Heat Weld Roofing Seams For Repair	5.14

07 05 13 00-0020 Emergency Roof Patch^(07 05 13)

Note: 4 Hour response time.

07 05 13 00-0021	EA	Granule Emergency Roof Patch Cover 16 SF	76.14
07 05 13 00-0022	EA	Mobilize For Emergency Roof Patching.....	305.00

07 05 13 00-0023 Adhesives^(07 05 13)

Note: For repair of seams.

07 05 13 00-0024 Mastic Sealer^(07 05 13 00-0023)

07 05 13 00-0025 Applied At Joints Only^(07 05 13 00-0024)

07 05 13 00-0026	LF	Mastic Sealer, 1/4" Bead At Joint.....	3.05
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1.30

07 10 Dampproofing And Waterproofing⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost. Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 Thermal And Moisture Protection**07 10 Dampproofing And Waterproofing****07 11 Dampproofing**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT
 UNIT COST
 DEMOLITION
 UNIT COST
07 11 Dampproofing (07 10)**07 11 13 Bituminous Dampproofing** (07 11)**07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray** (07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	108.08	
07 11 13 00-0003	CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	169.18	

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On (07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	183.47	
07 11 13 00-0006	CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On	280.98	

07 11 13 00-0007 Asphaltic Paint Dampproofing (07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	87.90	
07 11 13 00-0009	CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On	162.06	

07 11 19 Sheet Dampproofing (07 11)**07 11 19 00-0001 Neoprene** (07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5-20 SF)	25.27	
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07 13 Sheet Waterproofing (07 10)**07 13 13 Bituminous Sheet Waterproofing** (07 13)**07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped** (07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	200.17	79.69
	For 30 LB Felt, Add	30.59	
	For Application To Horizontal Surfaces, Deduct	-23.91	
07 13 13 00-0003	CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	243.48	89.65
	For 30 LB Felt, Add	48.14	
	For Application To Horizontal Surfaces, Deduct	-26.90	
07 13 13 00-0004	CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	286.79	99.61
	For 30 LB Felt, Add	65.68	
	For Application To Horizontal Surfaces, Deduct	-29.88	
07 13 13 00-0005	CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	330.10	109.57
	For 30 LB Felt, Add	83.22	
	For Application To Horizontal Surfaces, Deduct	-32.87	
07 13 13 00-0006	CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	373.42	119.54
	For 30 LB Felt, Add	100.77	
	For Application To Horizontal Surfaces, Deduct	-35.86	

07 13 13 00-0007 Asphalt Coated Protective Board (07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	188.26	73.55
	For Application To Horizontal Surfaces, Deduct	-24.53	
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	263.28	76.37
	For Application To Horizontal Surfaces, Deduct	-25.46	
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	353.79	79.58
	For Application To Horizontal Surfaces, Deduct	-26.52	
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	398.93	82.79
	For Application To Horizontal Surfaces, Deduct	-27.60	

07 13 53 Elastomeric Sheet Waterproofing (07 13)**07 13 53 00-0001 Rubberized Membrane Sheet** (07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	5.54	0.76
	For Floor Surfaces, Deduct	-0.77	

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) (07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	385.68	106.92
	For Application To Horizontal Surfaces, Deduct	-32.07	
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	465.01	106.92
	For Application To Horizontal Surfaces, Deduct	-32.07	

07 13 53 00-0006 Butyl Sheet Waterproofing (07 13 53)

07 13 53 00-0007	CSF 1/32" Butyl Sheet Waterproofing	72.88	26.73
	For Joint Taping, Add	9.80	
	For Each Additional Ply, Add	53.69	
	For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0008	CSF 1/16" Butyl Sheet Waterproofing	87.55	26.73
	For Joint Taping, Add	10.54	
	For Each Additional Ply, Add	63.96	
	For Application To Horizontal Surfaces, Deduct	-4.02	

**Thermal And Moisture Protection 07****Dampproofing And Waterproofing 07 10****Sheet Waterproofing 07 13****07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon	81.26	26.73
			For Joint Taping, Add	10.22	
			For Each Additional Ply, Add	59.56	
			For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon	90.69	26.73
			For Joint Taping, Add	10.69	
			For Each Additional Ply, Add	66.16	
			For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing	129.51	26.73
			For Joint Taping, Add	12.63	
			For Each Additional Ply, Add	93.34	
			For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing	191.94	26.73
			For Joint Taping, Add	15.76	
			For Each Additional Ply, Add	137.04	
			For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon	136.02	26.73
			For Joint Taping, Add	12.96	
			For Each Additional Ply, Add	97.89	
			For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon	202.35	26.73
			For Joint Taping, Add	16.28	
			For Each Additional Ply, Add	144.32	
			For Application To Horizontal Surfaces, Deduct	-4.02	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier	28.02	11.03
			For Joint Taping, Add	7.02	
			For Each Additional Ply, Add	22.06	
			For Application To Horizontal Surfaces, Deduct	-3.66	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier	29.68	11.03
			For Joint Taping, Add	7.10	
			For Each Additional Ply, Add	23.22	
			For Application To Horizontal Surfaces, Deduct	-3.66	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier	41.79	11.03
			For Joint Taping, Add	7.70	
			For Each Additional Ply, Add	31.69	
			For Application To Horizontal Surfaces, Deduct	-3.66	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite	99.57	11.03
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			For Each Additional Ply, Add	72.41	
			For Application To Horizontal Surfaces, Deduct	-4.07	
07 13 53 00-0023			Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	39.73	12.21
			For Joint Taping, Add	7.60	
			For Each Additional Ply, Add	30.25	
			For Application To Horizontal Surfaces, Deduct	-3.66	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	51.79	12.66
			For Joint Taping, Add	8.42	
			For Each Additional Ply, Add	38.79	
			For Application To Horizontal Surfaces, Deduct	-3.80	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	67.99	13.10
			For Joint Taping, Add	9.43	
			For Each Additional Ply, Add	50.21	
			For Application To Horizontal Surfaces, Deduct	-3.93	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		Tu-Tuf 4, 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints.....	33.41	11.30
07 14			Fluid-Applied Waterproofing (07 10)		
07 14 13			Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)		
07 14 13 00-0001			Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)		
07 14 13 00-0002	SF		90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.53	
			Note: Includes primer.		
			For Application To Horizontal Surfaces, Deduct	-0.15	
			For Reinforcing Fabric, Add	0.32	

07 Thermal And Moisture Protection**07 10 Dampproofing And Waterproofing****07 14 Fluid-Applied Waterproofing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface..... Note: Includes primer. For Application To Horizontal Surfaces, Deduct For Reinforcing Fabric, Add	1.75 -0.16 0.32	
07 14 16 Cold Fluid-Applied Waterproofing (07 14)				
07 14 16 00-0001		Fluid Applied Rubber Based Polyurethane (07 14 16)		
07 14 16 00-0002	SF	60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats..... For Application To Horizontal Surfaces, Deduct	2.91 -0.32	
07 14 16 00-0003	SF	90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats..... For Application To Horizontal Surfaces, Deduct	3.39 -0.34	
07 14 16 00-0004	SF	120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats..... For Application To Horizontal Surfaces, Deduct	3.91 -0.36	
07 14 16 00-0005		One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)		
07 14 16 00-0006	SF	Chlorosulfonated Polyethylene Polymer 1 Part Solution, 15 Mil, Finish Coat.....	1.85	
07 14 16 00-0007		Copolymer Compound (07 14 16)		
07 14 16 00-0008	SF	Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	2.93	
07 14 16 00-0009		Fluid Applied Neoprene (07 14 16)		
07 14 16 00-0010	CSF	Fluid Neoprene, 1/8" Fiberglass Reinforced..... For Application To Horizontal Surfaces, Deduct	354.96 -38.95	
07 14 16 00-0011	CSF	Fluid Neoprene, 50 Mil, 4 Coats..... For Application To Horizontal Surfaces, Deduct	753.58 -76.41	
07 14 16 00-0012	CSF	Fluid Neoprene, 90 Mil, 4 Coats..... For Application To Horizontal Surfaces, Deduct	1,252.09 -114.56	
07 16 Cementitious And Reactive Waterproofing (07 10)				
07 16 13 Polymer Modified Cement Waterproofing (07 16)				
07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats..... Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.	3.52	
07 16 16 Crystalline Waterproofing (07 16)				
07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	4.07	
07 16 19 Metal Oxide Waterproofing (07 16)				
07 16 19 00-0001		Metallic Oxide Waterproofing (07 16 19) Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.		
07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller)..... For Application To Horizontal Surfaces, Deduct	351.05 -46.39	
07 17 Bentonite Waterproofing (07 10)				
07 17 13 Bentonite Panel Waterproofing (07 17)				
07 17 13 00-0001	CSF	3/16" Bentonite Waterproofing Panels..... For Application To Horizontal Surfaces, Deduct	341.13 -26.33	87.75
07 17 13 00-0002	CSF	1/4" Bentonite Waterproofing Panels..... For Application To Horizontal Surfaces, Deduct	305.70 -28.50	92.71
07 17 13 00-0003	CSF	5/8" Bentonite Waterproofing Panels..... For Application To Horizontal Surfaces, Deduct	435.16 -29.00	96.69
07 17 13 00-0004	CSF	3/8" Granular Bentonite, Troweled..... For Application To Horizontal Surfaces, Deduct	350.01 -24.12	80.42
07 19 Water Repellents (07 10)				
07 19 13 Acrylic Sealer (07 19)				
		Note: Per coat.		
07 19 13 00-0001	SF	Acrylic Sealer, Spray On Concrete.....	1.65	
07 19 13 00-0002	SF	Acrylic Sealer, Spray On Concrete Block/Brick.....	1.97	
07 19 13 00-0003	SF	Acrylic Sealer, Spray On Stone.....	2.16	
07 20 Thermal Protection (07)				
07 21 Thermal Insulation (07 20)				

**Thermal And Moisture Protection 07**

Thermal Protection 07 20

Thermal Insulation 07 21

07

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
07 21 13 Board Insulation (07 21)				
Note: Types are stock sizes, mastic applied. See CSI section 07 22 16 00-0001 for rigid insulation for roofs.				
07 21 13 13 Foam Board Insulation (07 21 13)				
07 21 13 13-0001 Foam Glass (Cellular Glass), Foam Board Insulation (07 21 13 13)				
07 21 13 13-0002	SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation.....	2.37		0.31
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
	For Mechanically Fastened To Concrete, Add	0.06		
	For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 13-0003	SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation	3.26		0.31
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
	For Mechanically Fastened To Concrete, Add	0.08		
	For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 13-0004	SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation.....	3.87		0.32
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
	For Mechanically Fastened To Concrete, Add	0.08		
	For Mechanically Fastened To Gypsum, Add	0.22		
07 21 13 13-0005	SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation	5.07		0.33
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
	For Mechanically Fastened To Concrete, Add	0.13		
	For Mechanically Fastened To Gypsum, Add	0.29		
07 21 13 13-0006 Expanded Polystyrene, Foam Board Insulation (07 21 13 13)				
07 21 13 13-0007	SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.09		0.31
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
	For Mechanically Fastened To Concrete, Add	0.06		
	For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 13-0008	SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.14		0.31
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
	For Mechanically Fastened To Concrete, Add	0.06		
	For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 13-0009	SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.29		0.31
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
	For Mechanically Fastened To Concrete, Add	0.06		
	For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 13-0010	SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)	1.44		0.31
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
	For Mechanically Fastened To Concrete, Add	0.06		
	For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 13-0011	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)	2.03		0.32
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
	For Mechanically Fastened To Concrete, Add	0.08		
	For Mechanically Fastened To Gypsum, Add	0.22		
07 21 13 13-0012	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	2.61		0.33
	For Horizontal Surface Application, Deduct	-0.05		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
	For Mechanically Fastened To Concrete, Add	0.13		
	For Mechanically Fastened To Gypsum, Add	0.29		
07 21 13 13-0013	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.20		0.33
	For Horizontal Surface Application, Deduct	-0.06		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Add	0.01		
	For Mechanically Fastened To Concrete, Add	0.19		
	For Mechanically Fastened To Gypsum, Add	0.33		
07 21 13 13-0014	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.79		0.34
	For Horizontal Surface Application, Deduct	-0.06		
	For Vapor Barrier, Integral With Insulation, Add	0.05		
	For Mechanically Fastened To Wood Or Steel, Add	0.07		
	For Mechanically Fastened To Concrete, Add	0.26		
	For Mechanically Fastened To Gypsum, Add	0.39		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0015	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.37	0.35
			For Horizontal Surface Application, Deduct	-0.06	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Add	0.28	
			For Mechanically Fastened To Concrete, Add	0.47	
			For Mechanically Fastened To Gypsum, Add	0.47	
07 21 13 13-0016			Extruded Polystyrene, Foam Board Insulation (07 21 13 13)		
			Note: 15 PSI compressive strength.		
07 21 13 13-0017	SF		3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation.....	1.22	0.31
			For Horizontal Surface Application, Deduct	-0.05	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.06	
			For Mechanically Fastened To Gypsum, Add	0.21	
			For 25 PSI Compressive Strength, Add	0.11	
			For 40 PSI Compressive Strength, Add	0.27	
			For 60 PSI Compressive Strength, Add	0.44	
			For 115 PSI Compressive Strength, Add	1.88	
07 21 13 13-0018	SF		1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation.....	1.41	0.31
			For Horizontal Surface Application, Deduct	-0.05	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.06	
			For Mechanically Fastened To Gypsum, Add	0.21	
			For 25 PSI Compressive Strength, Add	0.14	
			For 40 PSI Compressive Strength, Add	0.34	
			For 60 PSI Compressive Strength, Add	0.55	
			For 115 PSI Compressive Strength, Add	2.36	
07 21 13 13-0019	SF		3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation.....	1.56	0.31
			For Horizontal Surface Application, Deduct	-0.05	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.06	
			For Mechanically Fastened To Gypsum, Add	0.21	
			For 25 PSI Compressive Strength, Add	0.17	
			For 40 PSI Compressive Strength, Add	0.40	
			For 60 PSI Compressive Strength, Add	0.63	
			For 115 PSI Compressive Strength, Add	2.75	
07 21 13 13-0020	SF		1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation.....	1.65	0.31
			For Horizontal Surface Application, Deduct	-0.05	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.06	
			For Mechanically Fastened To Gypsum, Add	0.21	
			For 25 PSI Compressive Strength, Add	0.18	
			For 40 PSI Compressive Strength, Add	0.43	
			For 60 PSI Compressive Strength, Add	0.68	
			For 115 PSI Compressive Strength, Add	2.96	
07 21 13 13-0021	SF		2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation.....	2.44	0.32
			For Horizontal Surface Application, Deduct	-0.05	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
			For Mechanically Fastened To Concrete, Add	0.08	
			For Mechanically Fastened To Gypsum, Add	0.22	
			For 25 PSI Compressive Strength, Add	0.31	
			For 40 PSI Compressive Strength, Add	0.73	
			For 60 PSI Compressive Strength, Add	1.13	
			For 115 PSI Compressive Strength, Add	4.96	
07 21 13 13-0022	SF		3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation.....	3.24	0.33
			For Horizontal Surface Application, Deduct	-0.05	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.13	
			For Mechanically Fastened To Gypsum, Add	0.29	
			For 25 PSI Compressive Strength, Add	0.43	
			For 40 PSI Compressive Strength, Add	1.03	
			For 60 PSI Compressive Strength, Add	1.59	
			For 115 PSI Compressive Strength, Add	6.99	
07 21 13 13-0023	SF		4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation.....	3.65	0.33
			For Horizontal Surface Application, Deduct	-0.06	
			For Vapor Barrier, Integral With Insulation, Add	0.05	
			For Mechanically Fastened To Wood Or Steel, Add	0.01	
			For Mechanically Fastened To Concrete, Add	0.19	
			For Mechanically Fastened To Gypsum, Add	0.33	
			For 25 PSI Compressive Strength, Add	0.49	
			For 40 PSI Compressive Strength, Add	1.17	
			For 60 PSI Compressive Strength, Add	1.82	
			For 115 PSI Compressive Strength, Add	8.00	

07 21 13 16 Fibrous Board Insulation (07 21 13)

07 21 13 16-0001 Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16)

**Thermal And Moisture Protection 07**

Thermal Protection 07 20

Thermal Insulation 07 21

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0002	SF	1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation	1.59	0.39	
		For Horizontal Surface Application, Deduct	-0.07		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.10		
		For Mechanically Fastened To Gypsum, Add	0.25		
07 21 13 16-0003	SF	2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation	2.30	0.47	
		For Horizontal Surface Application, Deduct	-0.08		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.17		
		For Mechanically Fastened To Gypsum, Add	0.31		
07 21 13 16-0004	SF	3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation	3.02	0.54	
		For Horizontal Surface Application, Deduct	-0.09		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
		For Mechanically Fastened To Concrete, Add	0.25		
		For Mechanically Fastened To Gypsum, Add	0.41		
07 21 13 16-0005		Fiberglass, Fibrous Board Insulation (07 21 13 16)			
07 21 13 16-0006	SF	1" Thick, R4.2, Fiberglass, Fibrous Board Insulation	2.71	0.31	
		For Horizontal Surface Application, Deduct	-0.05		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.06		
		For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 16-0007	SF	1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation	3.01	0.31	
		For Horizontal Surface Application, Deduct	-0.05		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.08		
		For Mechanically Fastened To Gypsum, Add	0.21		
07 21 13 16-0008	SF	2" Thick, R8.0, Fiberglass, Fibrous Board Insulation	3.69	0.32	
		For Horizontal Surface Application, Deduct	-0.05		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.08		
		For Mechanically Fastened To Gypsum, Add	0.22		
07 21 13 16-0009	SF	2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation	4.24	0.32	
		For Horizontal Surface Application, Deduct	-0.05		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
		For Mechanically Fastened To Concrete, Add	0.12		
		For Mechanically Fastened To Gypsum, Add	0.25		
07 21 13 16-0010	SF	3" Thick, R12.4, Fiberglass, Fibrous Board Insulation	4.34	0.33	
		For Horizontal Surface Application, Deduct	-0.05		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
		For Mechanically Fastened To Concrete, Add	0.13		
		For Mechanically Fastened To Gypsum, Add	0.29		
07 21 13 19		Mineral Board Insulation (07 21 13)			
07 21 13 19-0001		High-Density Fiberboard, Mineral Board Insulation (07 21 13 19)			
07 21 13 19-0002	SF	1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation	1.22	0.35	
		For Horizontal Surface Application, Deduct	-0.06		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.08		
		For Mechanically Fastened To Gypsum, Add	0.23		
07 21 13 19-0003	SF	25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation	1.43	0.37	
		For Horizontal Surface Application, Deduct	-0.06		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.09		
		For Mechanically Fastened To Gypsum, Add	0.24		
07 21 13 19-0004	SF	1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation	1.66	0.39	
		For Horizontal Surface Application, Deduct	-0.07		
		For Vapor Barrier, Integral With Insulation, Add	0.05		
		For Factory Painted On One Surface Add	0.17		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.10		
		For Mechanically Fastened To Gypsum, Add	0.25		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 19-0005 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation	2.05	0.43
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
For Mechanically Fastened To Concrete, Add	0.14	
For Mechanically Fastened To Gypsum, Add	0.27	
07 21 13 19-0006 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation	2.44	0.47
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
For Mechanically Fastened To Concrete, Add	0.17	
For Mechanically Fastened To Gypsum, Add	0.31	
07 21 13 19-0007 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation	1.26	0.54
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.25	
For Mechanically Fastened To Gypsum, Add	0.41	
07 21 16 Blanket Insulation (07 21)		
Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.		
07 21 16 00-0001 Fiberglass Flexible Insulation (07 21 16)		
Note: Rolls or batts.		
07 21 16 00-0002 Kraft Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0003 SF 3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation	1.26	0.43
For >1,600, Deduct	-0.11	
07 21 16 00-0004 SF 3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation	1.34	0.43
For >1,600, Deduct	-0.12	
07 21 16 00-0005 SF 3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation	1.37	0.43
For >1,600, Deduct	-0.12	
07 21 16 00-0006 SF 5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation	1.74	0.43
For >1,600, Deduct	-0.18	
07 21 16 00-0007 SF 6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation	1.47	0.43
For >1,600, Deduct	-0.14	
07 21 16 00-0008 SF 9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation	2.27	0.54
For >1,600, Deduct	-0.22	
07 21 16 00-0009 SF 12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation	2.39	0.54
For >1,600, Deduct	-0.24	
07 21 16 00-0010 Unfaced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0011 SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation	1.20	0.43
For >1,600, Deduct	-0.10	
07 21 16 00-0012 SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation	1.30	0.43
For >1,600, Deduct	-0.11	
07 21 16 00-0013 SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation	1.66	0.43
For >1,600, Deduct	-0.17	
07 21 16 00-0014 SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation	1.68	0.43
For >1,600, Deduct	-0.17	
07 21 16 00-0015 SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation	1.43	0.43
For >1,600, Deduct	-0.13	
07 21 16 00-0016 SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation	2.15	0.54
For >1,600, Deduct	-0.20	
07 21 16 00-0017 SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation	2.32	0.54
For >1,600, Deduct	-0.23	
07 21 16 00-0018 Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0019 SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation	1.41	0.43
For >1,600, Deduct	-0.13	
07 21 16 00-0020 SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation	1.55	0.43
For >1,600, Deduct	-0.15	
07 21 16 00-0021 SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation	1.66	0.43
For >1,600, Deduct	-0.17	
07 21 16 00-0022 SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation	2.49	0.54
For >1,600, Deduct	-0.25	
07 21 16 00-0023 SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation	2.66	0.54
For >1,600, Deduct	-0.28	
07 21 16 00-0024 Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0025 SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation	1.29	0.43
For >1,600, Deduct	-0.11	
07 21 16 00-0026 SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation	1.37	0.43
For >1,600, Deduct	-0.12	
07 21 16 00-0027 SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation	1.79	0.43
For >1,600, Deduct	-0.18	

**Thermal And Moisture Protection****07**

Thermal Protection

07 20

Thermal Insulation

07 21**07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 16 00-0028 SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.48 -0.14	0.43
07 21 16 00-0029 SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.27 -0.22	0.54
07 21 16 00-0030 SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.32 -0.23	0.54
07 21 16 00-0031 Mineral Wool Flexible Insulation (07 21 16)		
07 21 16 00-0032 Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0033 SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	1.38 -0.12	0.43
07 21 16 00-0034 SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	1.78 -0.18	0.43
07 21 16 00-0035 SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.76 -0.31	0.43
07 21 16 00-0036 SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	3.11 -0.36	0.43
07 21 16 00-0037 Unfaced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0038 SF 3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	1.30 -0.11	0.43
07 21 16 00-0039 SF 6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	1.65 -0.16	0.43
07 21 16 00-0040 SF 9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.51 -0.27	0.43
07 21 16 00-0041 SF 12" Unfaced, R-38 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.81 -0.31	0.43
07 21 16 00-0042 Natural Cotton Insulation (07 21 16)		
07 21 16 00-0043 UltraTouch Natural Cotton Insulation (07 21 16 00-0042) Note: 85% recycled denim cotton.		
07 21 16 00-0044 SF 3-1/2", R-13 UltraTouch Natural Cotton Insulation..... <i>For >1,600, Deduct</i>	1.82 -0.19	0.43
07 21 16 00-0045 SF 5-1/2", R-19 UltraTouch Natural Cotton Insulation..... <i>For >1,600, Deduct</i>	2.05 -0.22	0.43
07 21 16 00-0046 SF 5-1/2", R-21 UltraTouch Natural Cotton Insulation..... <i>For >1,600, Deduct</i>	2.26 -0.25	0.43
07 21 16 00-0047 SF 8", R-30 UltraTouch Natural Cotton Insulation..... <i>For >1,600, Deduct</i>	3.04 -0.35	0.43
07 21 19 Foamed-In-Place Insulation (07 21)		
07 21 19 00-0001 Polyurethane Foam Insulation, Sprayed On (07 21 19)		
07 21 19 00-0002 SF 1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	0.98	
07 21 19 00-0003 SF 2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.63	
07 21 19 00-0004 SF 3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.28	
07 21 19 00-0005 SF 4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.93	
07 21 19 00-0006 SF 5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.58	
07 21 19 00-0007 SF 6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.22	
07 21 19 00-0008 SF 1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	1.89	
07 21 19 00-0009 SF 2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	2.93	
07 21 19 00-0010 SF 3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	3.97	
07 21 19 00-0011 SF 4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	5.01	
07 21 19 00-0012 SF 5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	6.05	
07 21 19 00-0013 SF 6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	7.10	
07 21 23 Loose-Fill Insulation (07 21)		
07 21 23 00-0001 Poured Type, Loose Fill Insulation (07 21 23)		
07 21 23 00-0002 CF R-3.5/Inch, Poured Type, Fiberglass Loose Fill Insulation.....	6.21	2.50
07 21 23 00-0003 CF R-3.7/Inch, Poured Type, Cellulose Loose Fill Insulation.....	6.57	2.50
07 21 23 00-0004 Concrete Block Wall Cavity Insulation (07 21 23)		
07 21 23 00-0005 CF R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation.....	8.17	2.50
07 21 23 00-0006 CF R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....	8.10	2.50
07 21 26 Blown Insulation (07 21)		
07 21 26 00-0001 Fiberglass Blown-In Insulation (07 21 26)		
07 21 26 00-0002 Attic, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0003 SF 3-3/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....	1.30	1.04
07 21 26 00-0004 SF 6-1/4" Thick, R-19 Attic, Fiberglass Blown In Insulation.....	1.64	1.25
07 21 26 00-0005 SF 7-1/4" Thick, R-22 Attic, Fiberglass Blown In Insulation.....	1.80	1.35

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 26 00-0006 SF 10-1/4" Thick, R-30 Attic, Fiberglass Blown In Insulation.....	2.07	1.45
07 21 26 00-0007 SF 12-3/4" Thick, R-38 Attic, Fiberglass Blown In Insulation.....	2.36	1.56
07 21 26 00-0008 SF 13-1/2" Thick, R-40 Attic, Fiberglass Blown In Insulation.....	2.56	1.67
07 21 26 00-0009 SF 14-3/4" Thick, R-44 Attic, Fiberglass Blown In Insulation.....	2.61	1.67
07 21 26 00-0010 SF 16-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....	2.72	1.67
07 21 26 00-0011 SF 19" Thick, R-56 Attic, Fiberglass Blown In Insulation.....	2.97	1.67
07 21 26 00-0012 SF 21" Thick, R-60 Attic, Fiberglass Blown In Insulation.....	2.98	1.67
07 21 26 00-0013 New Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0014 SF 3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation.....	1.75	1.04
07 21 26 00-0015 SF 5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation.....	2.31	1.25
07 21 26 00-0016 SF 7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation.....	2.72	1.35
07 21 26 00-0017 SF 9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation.....	3.20	1.45
07 21 26 00-0018 Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
Note: Includes drilling. Excludes patching.		
07 21 26 00-0019 SF 3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation	1.67	1.04
07 21 26 00-0020 SF 5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation	2.23	1.25
07 21 26 00-0021 SF 7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation	2.64	1.35
07 21 26 00-0022 SF 9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation	3.12	1.45
07 21 26 00-0023 Cellulose Blown-In Insulation (07 21 26)		
07 21 26 00-0024 Attic, Cellulose Blown-In Insulation (07 21 26 00-0023)		
07 21 26 00-0025 SF 3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation.....	1.32	1.04
07 21 26 00-0026 SF 5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation.....	1.57	1.15
07 21 26 00-0027 SF 6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation.....	1.75	1.25
07 21 26 00-0028 SF 7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation.....	2.02	1.35
07 21 26 00-0029 SF 8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation.....	2.06	1.35
07 21 26 00-0030 SF 10-1/2" Thick, R-38 Attic, Cellulose Blown In Insulation.....	2.37	1.45
07 21 26 00-0031 SF 11" Thick, R-40 Attic, Cellulose Blown In Insulation.....	2.43	1.45
07 21 26 00-0032 SF 13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation.....	2.82	1.56
07 21 26 00-0033 SF 16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation.....	3.20	1.67
07 21 26 00-0034 New Wall, Cellulose Blown-In Insulation (07 21 26 00-0023)		
07 21 26 00-0035 SF 3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation	1.71	1.04
07 21 26 00-0036 SF 5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation	2.26	1.25
07 21 26 00-0037 SF 7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation	2.64	1.35
07 21 26 00-0038 SF 9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation	3.10	1.45
07 21 26 00-0039 Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0023)		
Note: Includes drilling. Excludes patching.		
07 21 26 00-0040 SF 3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation	1.63	1.04
07 21 26 00-0041 SF 5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation	2.18	1.25
07 21 26 00-0042 SF 7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation	2.56	1.35
07 21 26 00-0043 SF 9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation	3.02	1.45
07 21 29 Sprayed Insulation (07 21)		
07 21 29 00-0001 Fiber Sprayed On Insulation (07 21 29)		
07 21 29 00-0002 SF 1" Spray, R2.7 Perlite Insulation	1.88	0.55
07 21 29 00-0003 SF 1" Spray, R3.7 Fibrous/Cementitious Insulation.....	1.39	0.55
07 21 29 00-0004 Cellulose Sprayed On Insulation (07 21 29)		
07 21 29 00-0005 SF 1" Thick - Cellulose Spray-on Insulation	2.67	0.55
07 21 53 Reflective Insulation (07 21)		
07 21 53 00-0001 Reflective Barrier Insulation (Foil - Single Bubble - Foil) (07 21 53)		
07 21 53 00-0002 SF 3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space	0.84	
07 22 Roof And Deck Insulation (07 20)		
07 22 16 Roof Board Insulation (07 22)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
07 22 16 00-0001 Rigid Board Roofing Insulation (07 22 16)		
07 22 16 00-0002 High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0001)		

**Thermal And Moisture Protection 07**

Thermal Protection 07 20

Roof And Deck Insulation 07 22

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0003	SF	1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation	1.46		
		For Hot-Mopped, Deduct	-0.15		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.16		
		For Mechanically Fastened To Gypsum, Add	0.31		
07 22 16 00-0004	SF	25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation	1.69		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.18		
		For Mechanically Fastened To Gypsum, Add	0.33		
07 22 16 00-0005	SF	1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation	1.92		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.19		
		For Mechanically Fastened To Gypsum, Add	0.34		
07 22 16 00-0006	SF	1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation	2.34		
		For Hot-Mopped, Deduct	-0.13		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.24		
		For Mechanically Fastened To Gypsum, Add	0.37		
07 22 16 00-0007	SF	2" Thick, R5, High-Density Fiberboard, Roof Board Insulation	2.76		
		For Hot-Mopped, Deduct	-0.12		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.27		
		For Mechanically Fastened To Gypsum, Add	0.41		
07 22 16 00-0008		Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0001)			
07 22 16 00-0009	SF	1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation.....	1.56		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.19		
		For Mechanically Fastened To Gypsum, Add	0.34		
07 22 16 00-0010	SF	1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation.....	1.85		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.19		
		For Mechanically Fastened To Gypsum, Add	0.34		
07 22 16 00-0011		Perlite, Roof Board Insulation (07 22 16 00-0001)			
07 22 16 00-0012	SF	1/2" Thick, R1.32, Perlite, Roof Board Insulation.....	1.41		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.13		
		For Mechanically Fastened To Gypsum, Add	0.28		
07 22 16 00-0013	SF	3/4" Thick, R2.08, Perlite, Roof Board Insulation.....	1.55		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.13		
		For Mechanically Fastened To Gypsum, Add	0.28		
07 22 16 00-0014	SF	1" Thick, R2.78, Perlite, Roof Board Insulation.....	1.70		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.13		
		For Mechanically Fastened To Gypsum, Add	0.28		
07 22 16 00-0015	SF	1-1/2" Thick, R4.17, Perlite, Roof Board Insulation.....	2.10		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.15		
		For Mechanically Fastened To Gypsum, Add	0.28		
07 22 16 00-0016	SF	2" Thick, R5.56, Perlite, Roof Board Insulation.....	2.35		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.16		
		For Mechanically Fastened To Gypsum, Add	0.30		
07 22 16 00-0017		Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0001)			
07 22 16 00-0018	SF	1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation	1.92		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.13		
		For Mechanically Fastened To Gypsum, Add	0.28		
07 22 16 00-0019	SF	2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation	2.55		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.16		
		For Mechanically Fastened To Gypsum, Add	0.30		
07 22 16 00-0020	SF	3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation	3.29		
		For Hot-Mopped, Deduct	-0.15		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
		For Mechanically Fastened To Concrete, Add	0.20		
		For Mechanically Fastened To Gypsum, Add	0.36		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
07 22 16 00-0021		Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0001)			
07 22 16 00-0022	SF	1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation	3.48		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.15		
		For Mechanically Fastened To Gypsum, Add	0.28		
07 22 16 00-0023	SF	2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation	4.09		
		For Hot-Mopped, Deduct	-0.16		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.16		
		For Mechanically Fastened To Gypsum, Add	0.30		
07 22 16 00-0024	SF	2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation	5.30		
		For Hot-Mopped, Deduct	-0.15		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
		For Mechanically Fastened To Concrete, Add	0.20		
		For Mechanically Fastened To Gypsum, Add	0.36		
07 22 16 00-0025	SF	3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation	6.51		
		For Hot-Mopped, Deduct	-0.15		
		For Mechanically Fastened To Wood Or Steel, Deduct	0.01		
		For Mechanically Fastened To Concrete, Add	0.26		
		For Mechanically Fastened To Gypsum, Add	0.37		
07 22 16 00-0026		Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0001)			
07 22 16 00-0027	SF	3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	1.43		
		For Loose-Laid, Deduct	-0.76		
		For Hot-Mopped, Deduct	-0.15		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.17		
		For Mechanically Fastened To Gypsum, Add	0.32		
07 22 16 00-0028	SF	1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	1.48		
		For Loose-Laid, Deduct	-0.76		
		For Hot-Mopped, Deduct	-0.15		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.17		
		For Mechanically Fastened To Gypsum, Add	0.32		
07 22 16 00-0029	SF	3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	1.64		
		For Loose-Laid, Deduct	-0.76		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.17		
		For Mechanically Fastened To Gypsum, Add	0.32		
07 22 16 00-0030	SF	1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	1.78		
		For Loose-Laid, Deduct	-0.76		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.14		
		For Mechanically Fastened To Concrete, Add	0.17		
		For Mechanically Fastened To Gypsum, Add	0.32		
07 22 16 00-0031	SF	2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	2.38		
		For Loose-Laid, Deduct	-0.77		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.09		
		For Mechanically Fastened To Concrete, Add	0.20		
		For Mechanically Fastened To Gypsum, Add	0.34		
07 22 16 00-0032	SF	3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	2.98		
		For Loose-Laid, Deduct	-0.79		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	-0.05		
		For Mechanically Fastened To Concrete, Add	0.25		
		For Mechanically Fastened To Gypsum, Add	0.41		
07 22 16 00-0033	SF	4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	3.58		
		For Loose-Laid, Deduct	-0.80		
		For Hot-Mopped, Deduct	-0.14		
		For Mechanically Fastened To Wood Or Steel, Deduct	0.01		
		For Mechanically Fastened To Concrete, Add	0.32		
		For Mechanically Fastened To Gypsum, Add	0.46		
07 22 16 00-0034	SF	5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	4.18		
		For Loose-Laid, Deduct	-0.81		
		For Hot-Mopped, Deduct	-0.13		
		For Mechanically Fastened To Wood Or Steel, Add	0.07		
		For Mechanically Fastened To Concrete, Add	0.39		
		For Mechanically Fastened To Gypsum, Add	0.52		
07 22 16 00-0035	SF	6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS)	4.77		
		For Loose-Laid, Deduct	-0.82		
		For Hot-Mopped, Deduct	-0.13		
		For Mechanically Fastened To Wood Or Steel, Add	0.28		
		For Mechanically Fastened To Concrete, Add	0.60		
		For Mechanically Fastened To Gypsum, Add	0.60		
07 22 16 00-0036		Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0001)			
		Note: 15 PSI compressive strength.			

**Thermal And Moisture Protection****07**

Thermal Protection

07 20

Roof And Deck Insulation

07 22**07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0037	SF		3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation	1.78	
			For Loose-Laid, Deduct	-0.70	
			For Hot-Mopped, Deduct	-0.16	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.13	
			For Mechanically Fastened To Gypsum, Add	0.28	
			For 25 PSI Compressive Strength, Add	0.17	
			For 40 PSI Compressive Strength, Add	0.40	
			For 60 PSI Compressive Strength, Add	0.65	
			For 115 PSI Compressive Strength, Add	2.77	
07 22 16 00-0038	SF		1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation	1.86	
			For Loose-Laid, Deduct	-0.70	
			For Hot-Mopped, Deduct	-0.16	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.13	
			For Mechanically Fastened To Gypsum, Add	0.28	
			For 25 PSI Compressive Strength, Add	0.18	
			For 40 PSI Compressive Strength, Add	0.43	
			For 60 PSI Compressive Strength, Add	0.69	
			For 115 PSI Compressive Strength, Add	2.98	
07 22 16 00-0039	SF		1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation	2.25	
			For Loose-Laid, Deduct	-0.70	
			For Hot-Mopped, Deduct	-0.16	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
			For Mechanically Fastened To Concrete, Add	0.15	
			For Mechanically Fastened To Gypsum, Add	0.28	
			For 25 PSI Compressive Strength, Add	0.24	
			For 40 PSI Compressive Strength, Add	0.58	
			For 60 PSI Compressive Strength, Add	0.92	
			For 100 PSI Compressive Strength, Add	1.18	
			For 115 PSI Compressive Strength, Add	3.98	
07 22 16 00-0040	SF		2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation	2.66	
			For Loose-Laid, Deduct	-0.71	
			For Hot-Mopped, Deduct	-0.16	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
			For Mechanically Fastened To Concrete, Add	0.16	
			For Mechanically Fastened To Gypsum, Add	0.30	
			For 25 PSI Compressive Strength, Add	0.31	
			For 40 PSI Compressive Strength, Add	0.73	
			For 60 PSI Compressive Strength, Add	1.15	
			For 115 PSI Compressive Strength, Add	4.98	
07 22 16 00-0041	SF		2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation	3.06	
			For Loose-Laid, Deduct	-0.71	
			For Hot-Mopped, Deduct	-0.16	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.20	
			For Mechanically Fastened To Gypsum, Add	0.33	
			For 25 PSI Compressive Strength, Add	0.37	
			For 40 PSI Compressive Strength, Add	0.88	
			For 60 PSI Compressive Strength, Add	1.38	
			For 100 PSI Compressive Strength, Add	1.77	
			For 115 PSI Compressive Strength, Add	6.01	
07 22 16 00-0042	SF		3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation	3.47	
			For Loose-Laid, Deduct	-0.72	
			For Hot-Mopped, Deduct	-0.15	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.20	
			For Mechanically Fastened To Gypsum, Add	0.36	
			For 25 PSI Compressive Strength, Add	0.43	
			For 40 PSI Compressive Strength, Add	1.03	
			For 60 PSI Compressive Strength, Add	1.60	
			For 115 PSI Compressive Strength, Add	7.02	
07 22 16 00-0043	SF		4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation	3.87	
			For Loose-Laid, Deduct	-0.72	
			For Hot-Mopped, Deduct	-0.15	
			For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
			For Mechanically Fastened To Concrete, Add	0.27	
			For Mechanically Fastened To Gypsum, Add	0.41	
			For 25 PSI Compressive Strength, Add	0.49	
			For 40 PSI Compressive Strength, Add	1.17	
			For 60 PSI Compressive Strength, Add	1.83	
			For 115 PSI Compressive Strength, Add	8.02	
07 22 16 00-0044			Polyisocyanurate Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0045	SF		3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation	1.61	
			For Loose-Laid, Deduct	-0.70	
			For Hot-Mopped, Deduct	-0.16	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
			For Mechanically Fastened To Concrete, Add	0.13	
			For Mechanically Fastened To Gypsum, Add	0.28	
			For Foil Facer, Add	0.36	
			For 25 PSI Compressive Strength, Add	0.09	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0046 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation.....	1.66	
For Loose-Laid, Deduct	-0.70	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.13	
For Mechanically Fastened To Gypsum, Add	0.28	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.09	
07 22 16 00-0047 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation.....	1.75	
For Loose-Laid, Deduct	-0.70	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
For Mechanically Fastened To Concrete, Add	0.15	
For Mechanically Fastened To Gypsum, Add	0.28	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.10	
07 22 16 00-0048 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation.....	1.99	
For Loose-Laid, Deduct	-0.71	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.30	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.12	
07 22 16 00-0049 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation.....	2.22	
For Loose-Laid, Deduct	-0.71	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.20	
For Mechanically Fastened To Gypsum, Add	0.33	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.15	
07 22 16 00-0050 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation.....	2.45	
For Loose-Laid, Deduct	-0.72	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.20	
For Mechanically Fastened To Gypsum, Add	0.36	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.17	
07 22 16 00-0051 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation.....	2.70	
For Loose-Laid, Deduct	-0.72	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
For Mechanically Fastened To Concrete, Add	0.27	
For Mechanically Fastened To Gypsum, Add	0.38	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.19	
07 22 16 00-0052 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation.....	2.91	
For Loose-Laid, Deduct	-0.72	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
For Mechanically Fastened To Concrete, Add	0.27	
For Mechanically Fastened To Gypsum, Add	0.41	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.21	
07 22 16 00-0053 High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0054 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation.....	1.82	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0055 Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0001)		
07 22 16 00-0056 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum).....	1.73	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0057 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum).....	1.82	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0058 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum).....	1.89	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0059 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum).....	1.92	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	

**Thermal And Moisture Protection 07****Thermal Protection 07 20****Roof And Deck Insulation 07 22****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0060 Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0001)		
07 22 16 00-0061 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat)	1.70	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0062 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat)	1.84	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0063 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat)	1.87	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.31	
07 22 16 00-0064 Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation (07 22 16 00-0001)		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.		
07 22 16 00-0065 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	2.87	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
For Mechanically Fastened To Concrete, Add	0.27	
For Mechanically Fastened To Gypsum, Add	0.41	
07 22 16 00-0066 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.01	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.09	
For Mechanically Fastened To Concrete, Add	0.27	
For Mechanically Fastened To Gypsum, Add	0.41	
07 22 16 00-0067 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.19	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.32	
For Mechanically Fastened To Gypsum, Add	0.45	
07 22 16 00-0068 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.30	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.32	
For Mechanically Fastened To Gypsum, Add	0.48	
07 22 16 00-0069 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.57	
For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
For Mechanically Fastened To Concrete, Add	0.39	
For Mechanically Fastened To Gypsum, Add	0.50	
07 22 16 00-0070 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.68	
For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
For Mechanically Fastened To Concrete, Add	0.39	
For Mechanically Fastened To Gypsum, Add	0.53	
07 22 16 00-0071 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.89	
For Mechanically Fastened To Wood Or Steel, Add	0.07	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Gypsum, Add	0.61	
07 22 16 00-0072 Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0001)		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.		
07 22 16 00-0073 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	2.89	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.31	
For Mechanically Fastened To Gypsum, Add	0.44	
07 22 16 00-0074 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	3.14	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.31	
For Mechanically Fastened To Gypsum, Add	0.47	
07 22 16 00-0075 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	3.41	
For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
For Mechanically Fastened To Concrete, Add	0.38	
For Mechanically Fastened To Gypsum, Add	0.49	
07 22 16 00-0076 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	3.60	
For Mechanically Fastened To Wood Or Steel, Deduct	0.01	
For Mechanically Fastened To Concrete, Add	0.38	
For Mechanically Fastened To Gypsum, Add	0.52	
07 22 16 00-0077 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	3.84	
For Mechanically Fastened To Wood Or Steel, Add	0.07	
For Mechanically Fastened To Concrete, Add	0.45	
For Mechanically Fastened To Gypsum, Add	0.58	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0078 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	4.09	
For Mechanically Fastened To Wood Or Steel, Add	0.07	
For Mechanically Fastened To Concrete, Add	0.45	
For Mechanically Fastened To Gypsum, Add	0.58	
07 22 16 00-0079 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation	4.57	
For Mechanically Fastened To Wood Or Steel, Add	0.28	
For Mechanically Fastened To Concrete, Add	0.69	
For Mechanically Fastened To Gypsum, Add	0.69	
07 22 16 00-0080 Rigid Board Tapered Roofing Insulation (07 22 16)		
Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard.		
07 22 16 00-0081 Tapered Polyisocyanurate Board (07 22 16 00-0080)		
Note: Includes polyurethane adhesive.		
07 22 16 00-0082 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0081)		
07 22 16 00-0083 SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	2.89	
For 25 PSI Compressive Strength, Add	0.17	
For Hot-Mopped, Deduct	-0.11	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.25	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.67	
07 22 16 00-0084 SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	4.13	
For 25 PSI Compressive Strength, Add	0.20	
For Hot-Mopped, Deduct	-0.23	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.14	
07 22 16 00-0085 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	4.43	
For 25 PSI Compressive Strength, Add	0.23	
For Hot-Mopped, Deduct	-0.23	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.17	
07 22 16 00-0086 SF 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	4.74	
For 25 PSI Compressive Strength, Add	0.26	
For Hot-Mopped, Deduct	-0.23	
For Mechanically Fastened To Wood Or Steel, Add	0.01	
For Mechanically Fastened To Concrete, Add	0.54	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	
07 22 16 00-0087 SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	5.04	
For 25 PSI Compressive Strength, Add	0.29	
For Hot-Mopped, Deduct	-0.23	
For Mechanically Fastened To Wood Or Steel, Add	0.01	
For Mechanically Fastened To Concrete, Add	0.54	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.21	
07 22 16 00-0088 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	6.29	
For 25 PSI Compressive Strength, Add	0.32	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.07	
For Mechanically Fastened To Concrete, Add	0.84	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.73	
07 22 16 00-0089 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	6.60	
For 25 PSI Compressive Strength, Add	0.35	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.07	
For Mechanically Fastened To Concrete, Add	0.84	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.73	
07 22 16 00-0090 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	6.90	
For 25 PSI Compressive Strength, Add	0.38	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.28	
For Mechanically Fastened To Concrete, Add	1.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.81	
07 22 16 00-0091 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	7.20	
For 25 PSI Compressive Strength, Add	0.41	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.28	
For Mechanically Fastened To Concrete, Add	1.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.81	
07 22 16 00-0092 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board	8.44	
For 25 PSI Compressive Strength, Add	0.44	
For Hot-Mopped, Deduct	-0.46	
For Mechanically Fastened To Wood Or Steel, Add	0.34	
For Mechanically Fastened To Concrete, Add	1.34	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.44	
07 22 16 00-0093 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0081)		

**Thermal And Moisture Protection****07****Thermal Protection****07 20****Roof And Deck Insulation****07 22****07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0094	SF		2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.74 0.16 -0.11 -0.05 0.25 0.67	
07 22 16 00-0095	SF		3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	4.28 0.22 -0.23 -0.05 0.48 1.14	
07 22 16 00-0096	SF		4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	4.89 0.28 -0.23 0.01 0.54 1.18	
07 22 16 00-0097	SF		5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	6.44 0.34 -0.34 0.07 0.84 1.73	
07 22 16 00-0098	SF		6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	7.05 0.40 -0.34 0.28 1.05 1.81	
07 22 16 00-0099	SF		7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	8.60 0.46 -0.46 0.34 1.34 2.44	
07 22 16 00-0100			1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0081)		
07 22 16 00-0101	SF		3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	4.59 0.25 -0.23 -0.05 0.48 1.17	
07 22 16 00-0102	SF		5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	6.75 0.37 -0.34 0.07 0.84 1.73	
07 22 16 00-0103	SF		7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	8.90 0.49 -0.46 0.34 1.34 2.44	
07 22 16 00-0104	SF		9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board <i>For 25 PSI Compressive Strength, Add</i> <i>For Hot-Mopped, Deduct</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i>	11.06 0.61 -0.58 0.67 1.91	
07 22 16 00-0105			Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0080) Note: Includes polyurethane adhesive.		
07 22 16 00-0106			1/8" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0105)		
07 22 16 00-0107	SF		2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.55 -0.05 0.25 0.67	
07 22 16 00-0108	SF		2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	3.80 -0.05 0.48 1.14	
07 22 16 00-0109	SF		3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	4.02 -0.05 0.48 1.17	
07 22 16 00-0110	SF		3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	4.25 0.01 0.54 1.18	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0111	SF		4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....4.48 For Mechanically Fastened To Wood Or Steel, Add 0.01 For Mechanically Fastened To Concrete, Add 0.54 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.21		
07 22 16 00-0112	SF		4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....5.73 For Mechanically Fastened To Wood Or Steel, Add 0.07 For Mechanically Fastened To Concrete, Add 0.84 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.73		
07 22 16 00-0113	SF		5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....5.96 For Mechanically Fastened To Wood Or Steel, Add 0.07 For Mechanically Fastened To Concrete, Add 0.84 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.73		
07 22 16 00-0114	SF		5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....6.19 For Mechanically Fastened To Wood Or Steel, Add 0.28 For Mechanically Fastened To Concrete, Add 1.05 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.81		
07 22 16 00-0115	SF		6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....6.41 For Mechanically Fastened To Wood Or Steel, Add 0.28 For Mechanically Fastened To Concrete, Add 1.05 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.81		
07 22 16 00-0116	SF		6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....7.66 For Mechanically Fastened To Wood Or Steel, Add 0.34 For Mechanically Fastened To Concrete, Add 1.34 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 2.44		
07 22 16 00-0117			1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0105)		
07 22 16 00-0118	SF		2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....2.43 For Mechanically Fastened To Wood Or Steel, Deduct -0.05 For Mechanically Fastened To Concrete, Add 0.25 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 0.67		
07 22 16 00-0119	SF		3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....3.91 For Mechanically Fastened To Wood Or Steel, Deduct -0.05 For Mechanically Fastened To Concrete, Add 0.48 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.14		
07 22 16 00-0120	SF		4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....4.36 For Mechanically Fastened To Wood Or Steel, Add 0.01 For Mechanically Fastened To Concrete, Add 0.54 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.18		
07 22 16 00-0121	SF		5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....5.85 For Mechanically Fastened To Wood Or Steel, Add 0.07 For Mechanically Fastened To Concrete, Add 0.84 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.73		
07 22 16 00-0122	SF		6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....6.30 For Mechanically Fastened To Wood Or Steel, Add 0.28 For Mechanically Fastened To Concrete, Add 1.05 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.81		
07 22 16 00-0123	SF		7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....7.78 For Mechanically Fastened To Wood Or Steel, Add 0.34 For Mechanically Fastened To Concrete, Add 1.34 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 2.44		
07 22 16 00-0124			1/2" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0105)		
07 22 16 00-0125	SF		3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....4.14 For Mechanically Fastened To Wood Or Steel, Deduct -0.05 For Mechanically Fastened To Concrete, Add 0.48 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.17		
07 22 16 00-0126	SF		5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....6.07 For Mechanically Fastened To Wood Or Steel, Add 0.07 For Mechanically Fastened To Concrete, Add 0.84 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.73		
07 22 16 00-0127	SF		7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....8.00 For Mechanically Fastened To Wood Or Steel, Add 0.34 For Mechanically Fastened To Concrete, Add 1.34 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 2.44		
07 22 16 00-0128	SF		9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....10.17 For Mechanically Fastened To Wood Or Steel, Add 0.67 For Mechanically Fastened To Concrete, Add 1.91		
07 22 16 00-0129			Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0080) Note: Includes polyurethane adhesive.		
07 22 16 00-0130			1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0129)		
07 22 16 00-0131	SF		2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....2.82 For Mechanically Fastened To Wood Or Steel, Deduct -0.05 For Mechanically Fastened To Concrete, Add 0.25 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 0.67		
07 22 16 00-0132	SF		2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....4.06 For Mechanically Fastened To Wood Or Steel, Deduct -0.05 For Mechanically Fastened To Concrete, Add 0.48 For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add 1.14		

**Thermal And Moisture Protection****07**

Thermal Protection

07 20

Roof And Deck Insulation

07 22**07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0133	SF		3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 4.35 <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> -0.05 <i>For Mechanically Fastened To Concrete, Add</i> 0.48 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.17		
07 22 16 00-0134	SF		3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 4.64 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.01 <i>For Mechanically Fastened To Concrete, Add</i> 0.54 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.18		
07 22 16 00-0135	SF		4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 4.93 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.01 <i>For Mechanically Fastened To Concrete, Add</i> 0.54 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.21		
07 22 16 00-0136	SF		4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 6.18 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.07 <i>For Mechanically Fastened To Concrete, Add</i> 0.84 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.73		
07 22 16 00-0137	SF		5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 6.47 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.07 <i>For Mechanically Fastened To Concrete, Add</i> 0.84 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.73		
07 22 16 00-0138	SF		5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 6.76 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.28 <i>For Mechanically Fastened To Concrete, Add</i> 1.05 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.81		
07 22 16 00-0139	SF		6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 7.04 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.28 <i>For Mechanically Fastened To Concrete, Add</i> 1.05 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.81		
07 22 16 00-0140	SF		6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) 8.29 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.34 <i>For Mechanically Fastened To Concrete, Add</i> 1.34 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 2.44		
07 22 16 00-0141			1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0129)		
07 22 16 00-0142	SF		2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) 2.68 <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> -0.05 <i>For Mechanically Fastened To Concrete, Add</i> 0.25 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 0.67		
07 22 16 00-0143	SF		3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) 4.21 <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> -0.05 <i>For Mechanically Fastened To Concrete, Add</i> 0.48 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.14		
07 22 16 00-0144	SF		4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) 4.78 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.01 <i>For Mechanically Fastened To Concrete, Add</i> 0.54 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.18		
07 22 16 00-0145	SF		5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) 6.32 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.07 <i>For Mechanically Fastened To Concrete, Add</i> 0.84 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.73		
07 22 16 00-0146	SF		6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) 6.90 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.28 <i>For Mechanically Fastened To Concrete, Add</i> 1.05 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.81		
07 22 16 00-0147	SF		7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) 8.43 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.34 <i>For Mechanically Fastened To Concrete, Add</i> 1.34 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 2.44		
07 22 16 00-0148			1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0129)		
07 22 16 00-0149	SF		3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) 4.50 <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> -0.05 <i>For Mechanically Fastened To Concrete, Add</i> 0.48 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.17		
07 22 16 00-0150	SF		5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) 6.61 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.07 <i>For Mechanically Fastened To Concrete, Add</i> 0.84 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 1.73		
07 22 16 00-0151	SF		7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) 8.72 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.34 <i>For Mechanically Fastened To Concrete, Add</i> 1.34 <i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i> 2.44		
07 22 16 00-0152	SF		9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) 10.84 <i>For Mechanically Fastened To Wood Or Steel, Add</i> 0.67 <i>For Mechanically Fastened To Concrete, Add</i> 1.91		
07 22 16 00-0153			Tapered Perlite Board (07 22 16 00-0080) Note: Includes polyurethane adhesive.		
07 22 16 00-0154			1/8" Slope, Tapered Perlite Board (07 22 16 00-0153)		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0155	SF		2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board .....3.76		
			For Hot-Mopped, Deduct	-0.11	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.25	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.67	
07 22 16 00-0156	SF		2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board .....4.81		
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.14	
07 22 16 00-0157	SF		3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board .....5.32		
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.17	
07 22 16 00-0158	SF		3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board .....5.76		
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Add	0.01	
			For Mechanically Fastened To Concrete, Add	0.54	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	
07 22 16 00-0159	SF		4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board .....6.27		
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Add	0.01	
			For Mechanically Fastened To Concrete, Add	0.54	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.21	
07 22 16 00-0160	SF		4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board .....7.33		
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.07	
			For Mechanically Fastened To Concrete, Add	0.84	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.73	
07 22 16 00-0161	SF		5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board .....7.84		
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.07	
			For Mechanically Fastened To Concrete, Add	0.84	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.73	
07 22 16 00-0162	SF		5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board .....8.28		
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.28	
			For Mechanically Fastened To Concrete, Add	1.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.81	
07 22 16 00-0163	SF		6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board .....8.79		
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.28	
			For Mechanically Fastened To Concrete, Add	1.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.81	
07 22 16 00-0164	SF		6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board .....9.84		
			For Hot-Mopped, Deduct	-0.46	
			For Mechanically Fastened To Wood Or Steel, Add	0.34	
			For Mechanically Fastened To Concrete, Add	1.34	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.44	
07 22 16 00-0165			1/4" Slope, Tapered Perlite Board (07 22 16 00-0153)		
07 22 16 00-0166	SF		2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board .....3.50		
			For Hot-Mopped, Deduct	-0.11	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.25	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.67	
07 22 16 00-0167	SF		3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board .....5.07		
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.14	
07 22 16 00-0168	SF		4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board .....6.02		
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Add	0.01	
			For Mechanically Fastened To Concrete, Add	0.54	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	
07 22 16 00-0169	SF		5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board .....7.58		
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.07	
			For Mechanically Fastened To Concrete, Add	0.84	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.73	
07 22 16 00-0170	SF		6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board .....8.53		
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.28	
			For Mechanically Fastened To Concrete, Add	1.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.81	
07 22 16 00-0171	SF		7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board .....10.10		
			For Hot-Mopped, Deduct	-0.46	
			For Mechanically Fastened To Wood Or Steel, Add	0.34	
			For Mechanically Fastened To Concrete, Add	1.34	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.44	
07 22 16 00-0172			1/2" Slope, Tapered Perlite Board (07 22 16 00-0153)		

**Thermal And Moisture Protection 07****Thermal Protection 07 20****Roof And Deck Insulation 07 22****07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0173	SF		3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board	5.58	
			For Hot-Mopped, Deduct	-0.23	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.05	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.17	
07 22 16 00-0174	SF		5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board	8.10	
			For Hot-Mopped, Deduct	-0.34	
			For Mechanically Fastened To Wood Or Steel, Add	0.07	
			For Mechanically Fastened To Concrete, Add	0.84	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.73	
07 22 16 00-0175	SF		7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board	10.61	
			For Hot-Mopped, Deduct	-0.46	
			For Mechanically Fastened To Wood Or Steel, Add	0.34	
			For Mechanically Fastened To Concrete, Add	1.34	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.44	
07 22 16 00-0176	SF		9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board	13.13	
			For Hot-Mopped, Deduct	-0.58	
			For Mechanically Fastened To Wood Or Steel, Add	0.67	
			For Mechanically Fastened To Concrete, Add	1.91	
07 22 16 00-0177			Demolish Rigid Board Roofing Insulation (07 22 16) Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.).		
07 22 16 00-0178	SF		Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation	0.44	
07 22 16 00-0179	SF		Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation	0.45	
07 22 16 00-0180	SF		Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation	0.46	
07 22 16 00-0181	SF		Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation	0.47	
07 22 16 00-0182	SF		Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation	0.48	
07 22 16 00-0183	SF		Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation	0.49	
07 22 16 00-0184	SF		Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation	0.50	
07 22 16 00-0185	SF		Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation	0.52	
07 22 16 00-0186	SF		Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation	0.53	
07 22 16 00-0187	SF		Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation	0.54	
07 22 16 00-0188	SF		Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation	0.55	
07 22 16 00-0189	SF		Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation	0.57	
07 22 16 00-0190	SF		Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation	0.58	
07 25			Weather Barriers (07)		
07 26			Vapor Retarders (07 25)		
07 26 13			Above-Grade Vapor Retarders (07 26)		
07 26 13 00-0001	CSF		Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B)	22.34	
07 26 13 00-0002	CSF		Asphalt Saturated Kraft Building Paper, Grade D, "Jumbo Tex"	21.21	
07 26 13 00-0003	CSF		60 Minute Asphalt Saturated Kraft Building Paper, Grade D, "Super Jumbo Tex 60 Minute"	24.84	
07 26 13 00-0004	CSF		Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D, "Two Ply Super Jumbo Tex 60 Minute"	30.16	
07 26 13 00-0005	CSF		Regular Weight Red Rosin Sized Sheathing	31.12	
07 26 13 00-0006	CLF		6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper)	68.30	
07 26 13 00-0007	CLF		4" Wide Self Adhering Butyl Sealing Tape	95.01	
07 26 13 00-0008	CLF		6" Wide Self Adhesive Butyl Sealing Tape	131.98	
07 26 13 00-0009	CLF		9" Wide Self Adhesive Butyl Sealing Tape	177.00	
07 26 13 00-0010	CSF		Building Wrap (Tyvek)	58.46	
07 27			Air Barriers (07 25)		
07 27 23			Board Product Air Barriers (07 27)		
07 27 23 00-0001			Barriers For Plenums (07 27 23)		
07 27 23 00-0002	SF		0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 LB/SF	8.80	2.72
			For Up To 50, Add	3.45	
			For >50 To 200, Add	1.94	
			For >200 To 500, Add	0.71	
			For >2,500, Deduct	-0.44	
07 27 23 00-0003	SF		0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 LB/SF	9.53	2.72
			For Up To 50, Add	3.76	
			For >50 To 200, Add	2.12	
			For >200 To 500, Add	0.77	
			For >2,500, Deduct	-0.48	
07 27 23 00-0004	SF		Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick	3.84	1.81
			For Up To 50, Add	1.89	
			For >50 To 200, Add	1.04	
			For >200 To 500, Add	0.36	
			For >2,500, Deduct	-0.19	
07 27 23 00-0005	SF		Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick	6.99	2.72
			For Up To 50, Add	3.38	
			For >50 To 200, Add	1.87	
			For >200 To 500, Add	0.64	
			For >2,500, Deduct	-0.35	

07 Thermal And Moisture Protection**07 25 Weather Barriers****07 27 Air Barriers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 27 23 00-0006 SF Aluminum Mesh Barrier For Plenum Kraft Paper Backed.....	4.83	1.81
For Up To 50, Add	2.04	
For >50 To 200, Add	1.14	
For >200 To 500, Add	0.41	
For >2,500, Deduct	-0.24	
07 27 23 00-0007 SF 1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF.....	6.47	1.81
For Up To 50, Add	2.18	
For >50 To 200, Add	1.25	
For >200 To 500, Add	0.47	
For >2,500, Deduct	-0.32	

07 40 Roofing And Siding Panels ⁽⁰⁷⁾

Note: Includes placement of materials on roof up to 2-1/2 stories. All new roof installations include flood testing.

07 41 Roof Panels ^(07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

07 41 13 Metal Roof Panels ^(07 41)**07 41 13 00-0001 Exposed Fastener Metal Roofing** ^(07 41 13)

Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.

07 41 13 00-0002 Galvanized Exposed Fastener Metal Roofing ^(07 41 13 00-0001)**07 41 13 00-0003 Galvanized Steel Exposed Fastener Metal Roof Panels** ^(07 41 13 00-0002)

07 41 13 00-0004 SF 18 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	6.89	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0005 SF 20 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	6.37	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0006 SF 22 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	6.01	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0007 SF 24 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	5.65	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0008 SF 26 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	5.36	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0009 SF 29 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	5.10	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0010 SF 30 Gauge Galvanized Exposed Fastener Metal Roof Panels.....	5.00	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	

07 41 13 00-0011 Galvanized Exposed Fastener Metal Roof Accessories ^(07 41 13 00-0002)

See CSI section 07 41 13 00-0038 for accessories.

07 41 13 00-0012 LF Ridge Flashing For Galvanized Steel Exposed Fastener Roofing.....	33.52	3.96
For Steep Roof, Over 7 To 12, Add	5.03	
For Fluoropolymer (Kynar) Coating, Add	1.78	
07 41 13 00-0013 LF Eave Flashing For Galvanized Steel Exposed Fastener Roofing.....	26.28	3.96
For Steep Roof, Over 7 To 12, Add	5.03	
For Fluoropolymer (Kynar) Coating, Add	1.06	
07 41 13 00-0014 LF Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....	40.50	3.96
For Steep Roof, Over 7 To 12, Add	5.03	
For Fluoropolymer (Kynar) Coating, Add	2.48	
07 41 13 00-0015 LF Hip Flashing For Galvanized Steel Exposed Fastener Roofing.....	34.15	3.96
For Steep Roof, Over 7 To 12, Add	5.03	
For Fluoropolymer (Kynar) Coating, Add	1.84	

07 41 13 00-0016 Aluminum Exposed Fastener Metal Roofing ^(07 41 13 00-0001)**07 41 13 00-0017 Aluminum Exposed Fastener Metal Roof Panels** ^(07 41 13 00-0016)

07 41 13 00-0018 SF 0.0155" Aluminum Exposed Fastener Metal Roof Panels.....	4.85	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0019 SF 0.018" Aluminum Exposed Fastener Metal Roof Panels.....	4.99	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0020 SF 0.024" Aluminum Exposed Fastener Metal Roof Panels.....	5.34	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0021 SF 0.032" Aluminum Exposed Fastener Metal Roof Panels.....	5.80	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	
07 41 13 00-0022 SF 0.040" Aluminum Exposed Fastener Metal Roof Panels.....	6.26	0.89
For Fluoropolymer (Kynar) Coating, Add	0.64	
For Steep Roof, Over 7 To 12, Add	1.27	

**Thermal And Moisture Protection 07****Roofing And Siding Panels 07 40****Roof Panels 07 41****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0023 SF 0.050" Aluminum Exposed Fastener Metal Roof Panels For Fluoropolymer (Kynar) Coating, Add For Steep Roof, Over 7 To 12, Add	6.83 0.64 1.27	0.89
07 41 13 00-0024 Aluminum Exposed Fastener Metal Roof Accessories (07 41 13 00-0016)		
07 41 13 00-0025 LF Ridge Flashing For Aluminum Exposed Fastener Metal Roofing..... For Steep Roof, Over 7 To 12, Add For Fluoropolymer (Kynar) Coating, Add	31.96 3.16 2.21	3.96
07 41 13 00-0026 LF Eave Flashing For Aluminum Exposed Fastener Metal Roofing..... For Steep Roof, Over 7 To 12, Add For Fluoropolymer (Kynar) Coating, Add	22.91 3.16 1.30	3.96
07 41 13 00-0027 LF Valley Flashing For Aluminum Exposed Fastener Metal Roofing For Steep Roof, Over 7 To 12, Add For Fluoropolymer (Kynar) Coating, Add	40.69 3.16 3.08	3.96
07 41 13 00-0028 LF Hip Flashing For Aluminum Exposed Fastener Metal Roofing..... For Steep Roof, Over 7 To 12, Add For Fluoropolymer (Kynar) Coating, Add	32.76 3.16 2.29	3.96
07 41 13 00-0029 Standing Seam Roofs (07 41 13) Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty.		
07 41 13 00-0030 Galvanized Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0029) Note: All steel is galvanized G90 rated or galvalume. Factory paint finish is Kynar 500, Hylar 5000 or equal PVCF finish.		
07 41 13 00-0031 Galvanized Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0030)		
07 41 13 00-0032 SF Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	13.36 1.58 1.64 0.69 3.34 2.00 0.33	2.09
07 41 13 00-0033 SF Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	14.12 1.58 1.68 0.70 3.53 2.12 0.35	2.09
07 41 13 00-0034 SF Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	12.68 1.58 1.61 0.67 3.17 1.90 0.32	2.09
07 41 13 00-0035 SF Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	12.95 1.58 1.62 0.68 3.24 1.94 0.32	2.09
07 41 13 00-0036 SF Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	13.25 1.58 1.63 0.69 3.31 1.99 0.33	2.09
07 41 13 00-0037 SF Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	14.36 1.58 1.69 0.71 3.59 2.15 0.36	2.09
07 41 13 00-0038 Accessories For Galvanized Steel Standing Seam Roofing (07 41 13 00-0030)		
07 41 13 00-0039 LF Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing..... For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	35.30 4.72 1.96	6.29
07 41 13 00-0040 LF Eave Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing..... For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	27.33 4.72 1.81	6.29

07 Thermal And Moisture Protection**07 40 Roofing And Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0041	LF		Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing	42.98	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	2.12	
07 41 13 00-0042	LF		Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing.....	35.99	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	1.98	
07 41 13 00-0043			Aluminum Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)		
			Note: Factory paint finish is Kynar 500, Hylar 5000 or equal PVCF finish.		
07 41 13 00-0044			Aluminum Standing Seam Concealed Fastener Roofing (07 41 13 00-0043)		
07 41 13 00-0045	SF		Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing.....	13.89	2.09
			For Steep Roof, Over 6 To 12, Add	1.58	
			For Panels <16" Wide, Add	1.67	
			For 140 MPH Wind Load, Add	0.70	
			For Up To 1,500, Add	3.47	
			For >1,500 To 5,000, Add	2.08	
			For >5,000 To 10,000, Add	0.35	
07 41 13 00-0046	SF		Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing.....	14.54	2.09
			For Steep Roof, Over 6 To 12, Add	1.58	
			For Panels <16" Wide, Add	1.70	
			For 140 MPH Wind Load, Add	0.71	
			For Up To 1,500, Add	3.64	
			For >1,500 To 5,000, Add	2.18	
			For >5,000 To 10,000, Add	0.36	
07 41 13 00-0047	SF		Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing	13.52	2.09
			For Steep Roof, Over 6 To 12, Add	1.58	
			For Panels <16" Wide, Add	1.65	
			For 140 MPH Wind Load, Add	0.69	
			For Up To 1,500, Add	3.38	
			For >1,500 To 5,000, Add	2.03	
			For >5,000 To 10,000, Add	0.34	
07 41 13 00-0048	SF		Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing	14.72	2.09
			For Steep Roof, Over 6 To 12, Add	1.58	
			For Panels <16" Wide, Add	1.71	
			For 140 MPH Wind Load, Add	0.71	
			For Up To 1,500, Add	3.68	
			For >1,500 To 5,000, Add	2.21	
			For >5,000 To 10,000, Add	0.37	
07 41 13 00-0049			Accessories For Aluminum Standing Seam Roofing (07 41 13 00-0043)		
07 41 13 00-0050	LF		Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing	40.01	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	2.06	
07 41 13 00-0051	LF		Eave Flashing For Aluminum Standing Seam Concealed Fastener Roofing	30.05	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	1.86	
07 41 13 00-0052	LF		Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing	49.61	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	2.25	
07 41 13 00-0053	LF		Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	40.89	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	2.08	
07 41 13 00-0054			Copper Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)		
07 41 13 00-0055			Copper Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0056	SF		Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing.....	34.29	3.14
			For Steep Roof, Over 6 To 12, Add	2.36	
			For Panels <16" Wide, Add	3.17	
			For 140 MPH Wind Load, Add	1.31	
			For Up To 1,500, Add	8.57	
			For >1,500 To 5,000, Add	5.14	
			For >5,000 To 10,000, Add	0.86	
07 41 13 00-0057	SF		Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing.....	40.89	3.14
			For Steep Roof, Over 6 To 12, Add	2.36	
			For Panels <16" Wide, Add	3.50	
			For 140 MPH Wind Load, Add	1.45	
			For Up To 1,500, Add	10.22	
			For >1,500 To 5,000, Add	6.13	
			For >5,000 To 10,000, Add	1.02	
07 41 13 00-0058			Accessories For Copper Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0059	LF		Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing	101.41	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	3.29	
07 41 13 00-0060	LF		Eave Flashing For Copper Standing Seam Concealed Fastener Roofing	59.92	6.29
			For Steep Roof, Over 6 To 12, Add	4.72	
			For 140 MPH Wind Load, Add	2.46	

**Thermal And Moisture Protection 07****Roofing And Siding Panels 07 40****Roof Panels 07 41****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0061 LF Valley Flashing For Copper Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	140.65 4.72 4.07	6.29
07 41 13 00-0062 LF Hip Flashing For Copper Standing Seam Concealed Fastener Roofing..... For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	104.51 4.72 3.35	6.29
07 41 13 00-0063 Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)		
07 41 13 00-0064 Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0063)		
07 41 13 00-0065 SF Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	26.51 2.36 2.78 1.16 6.63 3.98 0.66	3.14
07 41 13 00-0066 SF Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	30.47 2.36 2.98 1.24 7.62 4.57 0.76	3.14
07 41 13 00-0067 SF Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	35.18 2.36 3.21 1.33 8.80 5.28 0.88	3.14
07 41 13 00-0068 SF Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For Panels <16" Wide, Add For 140 MPH Wind Load, Add For Up To 1,500, Add For >1,500 To 5,000, Add For >5,000 To 10,000, Add	41.21 2.36 3.51 1.45 10.30 6.18 1.03	3.14
07 41 13 00-0069 Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0063)		
07 41 13 00-0070 LF Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	90.53 5.31 3.23	6.29
07 41 13 00-0071 LF Eave Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	55.26 5.31 2.52	6.29
07 41 13 00-0072 LF Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing..... For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	123.88 5.31 3.89	6.29
07 41 13 00-0073 LF Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add	93.17 5.31 3.28	6.29
07 41 13 00-0074 Metal Roof Surfacing (07 41 13)		
07 41 13 00-0075 SF Acrylic, Metal Roof Primer, One Coat For Steep Roof, Over 7 To 12, Add	0.30 0.05	
07 41 13 00-0076 SF Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat Note: 55% solids by volume. For Steep Roof, Over 7 To 12, Add	0.42 0.05	
07 41 33 Plastic Roof Panels (07 41)		
07 41 33 00-0001 Polyvinyl Chloride (PVC) Roofing Panels (07 41 33)		
07 41 33 00-0002 Polyvinyl Chloride (PVC) Roofing Panels (07 41 33 00-0001)		
07 41 33 00-0003 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide.....	4.00	1.53
07 41 33 00-0004 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide.....	3.77	1.38
07 41 33 00-0005 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide.....	4.10	1.53
07 41 33 00-0006 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide.....	3.85	1.38
07 41 33 00-0007 Polyvinyl Chloride (PVC) Roofing Accessories (07 41 33 00-0001)		
07 41 33 00-0008 LF 1" "J" Channel, Starter Strip Trim.....	2.56	1.14
07 41 33 00-0009 LF 3-1/2" "J" Channel, Starter Strip Trim	3.35	1.14
07 41 33 00-0010 LF Outside Corner Post, 7/8" Pocket	3.58	1.14
07 41 33 00-0011 LF Inside Corner Post, 7/8" Pocket.....	2.97	1.14
07 41 33 00-0012 Fiberglass Roofing Panel (07 41 33)		

07 Thermal And Moisture Protection**07 40 Roofing And Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 33 00-0013			Corrugated Panels (07 41 33 00-0012)		
07 41 33 00-0014	SF		8 Ounce Corrugated Fiberglass Panel.....	4.71	1.23
07 41 33 00-0015	SF		12 Ounce Corrugated Fiberglass Panel.....	5.44	1.23
07 42			Wall Panels (07 40)		
07 42 13			Metal Wall Panels (07 42)		
07 42 13 19			Insulated Metal Wall Panels (07 42 13)		
07 42 13 19-0001			Insulated Panels For Sash/Window Replacement (07 42 13 19)		
			Note: Porcelain or polymer finish on aluminum panel with polystyrene core.		
07 42 13 19-0002	SF		1" Insulated Panel For Sash Or Window Replacement.....	15.29	3.62
			For Non-Insulated Panels, Deduct	-2.00	
07 42 13 19-0003	SF		1-1/4" Insulated Panel For Sash Or Window Replacement.....	16.62	4.07
			For Non-Insulated Panels, Deduct	-2.14	
07 42 13 19-0004	SF		1-3/4" Insulated Panel For Sash Or Window Replacement.....	17.79	4.51
			For Non-Insulated Panels, Deduct	-2.28	
07 42 13 19-0005	SF		2-1/4" Insulated Panel For Sash Or Window Replacement.....	19.06	4.70
			For Non-Insulated Panels, Deduct	-2.41	
07 42 13 19-0006	SF		3-1/4" Insulated Panel For Sash Or Window Replacement.....	21.49	5.15
			For Non-Insulated Panels, Deduct	-2.80	
07 42 13 19-0007	SF		4-1/4" Insulated Panel For Sash Or Window Replacement.....	24.76	5.69
			For Non-Insulated Panels, Deduct	-3.37	
07 42 13 23			Metal Composite Material Wall Panels (07 42 13)		
07 42 13 23-0001			24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels (07 42 13 23)		
			Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation.		
07 42 13 23-0002	SF		2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	14.83	2.28
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
07 42 13 23-0003	SF		2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	16.81	2.57
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
07 42 13 23-0004	SF		3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	18.52	2.92
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
07 42 13 23-0005	SF		4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	20.98	3.86
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
07 42 63			Fabricated Wall Panel Assemblies (07 42)		
07 42 63 00-0001			Insulated Freezer And Chiller Panels (07 42 63)		
			Note: Excludes suspension system for ceiling support.		
07 42 63 00-0002			Polyurethane Sandwich Panel (07 42 63 00-0001)		
			Note: With 22 gauge galvanized sheet metal face excludes painting.		
07 42 63 00-0003	SF		2" 22 Gauge Freezer Panel Sheet Metal Both Faces	14.59	1.74
07 42 63 00-0004	SF		3" 22 Gauge Freezer Panel Sheet Metal Both Faces	15.39	1.74
07 42 63 00-0005	SF		4" 22 Gauge Freezer Panel Sheet Metal Both Faces	18.14	1.74
07 42 63 00-0006	SF		5" 22 Gauge Freezer Panel Sheet Metal Both Faces	19.57	1.85
07 42 63 00-0007	SF		6" 22 Gauge Freezer Panel Sheet Metal Both Faces	20.76	1.85
07 42 63 00-0008	SF		2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	13.04	1.44
07 42 63 00-0009	SF		3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	14.10	1.44
07 42 63 00-0010	SF		4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	16.84	1.54
07 42 63 00-0011	SF		5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	16.37	1.54
07 42 63 00-0012	SF		6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	19.12	1.54
07 42 63 00-0013			Polyurethane Sandwich Panel (07 42 63 00-0001)		
			Note: With .040 aluminum baked enamel finish.		
07 42 63 00-0014	SF		2" Freezer Panel 0.040" Aluminum Finish Both Faces	10.33	1.74
07 42 63 00-0015	SF		3" Freezer Panel 0.040" Aluminum Finish Both Faces	10.95	1.74
07 42 63 00-0016	SF		4" Freezer Panel 0.040" Aluminum Finish Both Faces	12.61	1.74
07 42 63 00-0017	SF		5" Freezer Panel 0.040" Aluminum Finish Both Faces	13.65	1.85
07 42 63 00-0018	SF		6" Freezer Panel 0.040" Aluminum Finish Both Faces	14.40	1.85
07 42 63 00-0019	SF		2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	9.21	1.44
07 42 63 00-0020	SF		3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	9.84	1.44
07 42 63 00-0021	SF		4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.53	1.54
07 42 63 00-0022	SF		5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	12.17	1.54
07 42 63 00-0023	SF		6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	13.20	1.54

**Thermal And Moisture Protection 07****Roofing And Siding Panels 07 40****Wall Panels 07 42****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 Siding (07 40)		
07 46 16 Aluminum Siding (07 46)		
Note: Includes all necessary furring strips, trim for corners, windows and doors.		
07 46 16 00-0001 Aluminum Coil Stock Cladding (07 46 16)		
Note: Per SF of board, includes overlapage.		
07 46 16 00-0002 SF Aluminum Cladding, 0.016" Thick.....	8.78	3.57
07 46 16 00-0003 SF Aluminum Cladding, 0.019" Thick.....	8.82	3.57
07 46 16 00-0004 SF Aluminum Cladding, 0.024" Thick.....	8.89	3.57
07 46 16 00-0005 Aluminum Siding Panels For Structural Steel Framing (07 46 16)		
Note: Includes fasteners.		
07 46 16 00-0006 Corrugated (07 46 16 00-0005)		
07 46 16 00-0007 SF 0.019" Corrugated Aluminum Siding Panel, Mill Finish, Including Fasteners.....	4.81	1.97
07 46 16 00-0008 SF 0.021" Corrugated Aluminum Siding Panel, Mill Finish, Including Fasteners.....	4.93	1.97
07 46 16 00-0009 SF 0.024" Corrugated Aluminum Siding Panel, Mill Finish, Including Fasteners.....	5.21	1.97
07 46 16 00-0010 SF 0.032" Corrugated Aluminum Siding Panel, Mill Finish, Including Fasteners.....	5.69	1.97
07 46 16 00-0011 SF 0.019" Corrugated Aluminum Siding Panel, Painted Finish, Including Fasteners.....	5.04	1.97
07 46 16 00-0012 SF 0.021" Corrugated Aluminum Siding Panel, Painted Finish, Including Fasteners.....	5.15	1.97
07 46 16 00-0013 SF 0.024" Corrugated Aluminum Siding Panel, Painted Finish, Including Fasteners.....	5.47	1.97
07 46 16 00-0014 SF 0.032" Corrugated Aluminum Siding Panel, Painted Finish, Including Fasteners.....	6.10	1.97
07 46 16 00-0015 V- Beam (07 46 16 00-0005)		
07 46 16 00-0016 SF 0.032" Aluminum V-Beam Siding Panel, Mill Finish, Including Fasteners.....	5.71	1.97
07 46 16 00-0017 SF 0.040" Aluminum V-Beam Siding Panel, Mill Finish, Including Fasteners.....	5.96	1.97
07 46 16 00-0018 SF 0.050" Aluminum V-Beam Siding Panel, Mill Finish, Including Fasteners.....	6.28	1.97
07 46 16 00-0019 SF 0.032" Aluminum V-Beam Siding Panel, Painted Finish, Including Fasteners.....	6.07	1.97
07 46 16 00-0020 SF 0.040" Aluminum V-Beam Siding Panel, Painted Finish, Including Fasteners.....	6.50	1.97
07 46 16 00-0021 SF 0.050" Aluminum V-Beam Siding Panel, Painted Finish, Including Fasteners.....	7.50	1.97
07 46 16 00-0022 Rib (07 46 16 00-0005)		
07 46 16 00-0023 SF 0.032" Aluminum Siding Panel With 4" Rib, Mill Finish, Including Fasteners.....	6.03	1.97
07 46 16 00-0024 SF 0.040" Aluminum Siding Panel With 4" Rib, Mill Finish, Including Fasteners.....	6.28	1.97
07 46 16 00-0025 SF 0.050" Aluminum Siding Panel With 4" Rib, Mill Finish, Including Fasteners.....	6.61	1.97
07 46 16 00-0026 SF 0.032" Aluminum Siding Panel With 4" Rib, Painted Finish, Including Fasteners.....	6.26	1.97
07 46 16 00-0027 SF 0.040" Aluminum Siding Panel With 4" Rib, Painted Finish, Including Fasteners.....	6.67	1.97
07 46 16 00-0028 SF 0.050" Aluminum Siding Panel With 4" Rib, Painted Finish, Including Fasteners.....	6.92	1.97
07 46 16 00-0029 Aluminum Soffit And Fascia (07 46 16)		
Note: Excludes J-channel.		
07 46 16 00-0030 LF 6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	3.30	1.27
For 0.015" Thick, Deduct		
	-0.04	
07 46 16 00-0031 LF 10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	3.93	1.33
For 0.015" Thick, Deduct		
	-0.09	
07 46 16 00-0032 LF 1' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	4.25	1.37
For 0.015" Thick, Deduct		
	-0.11	
07 46 16 00-0033 LF 1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	5.14	1.44
For 0.015" Thick, Deduct		
	-0.15	
07 46 16 00-0034 LF 2' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	6.18	1.57
For 0.015" Thick, Deduct		
	-0.22	
07 46 16 00-0035 LF 3' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	8.00	1.74
For 0.015" Thick, Deduct		
	-0.33	
07 46 16 00-0036 LF 4' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	9.85	1.92
For 0.015" Thick, Deduct		
	-0.44	
07 46 16 00-0037 LF 5' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	11.75	2.11
For 0.015" Thick, Deduct		
	-0.55	
07 46 16 00-0038 LF 4" Exposure, 0.024" Thick, Aluminum Fascia.....	3.70	1.24
07 46 16 00-0039 LF 6" Exposure, 0.024" Thick, Aluminum Fascia.....	4.01	1.27
07 46 16 00-0040 LF 8" Exposure, 0.024" Thick, Aluminum Fascia.....	4.59	1.30
07 46 16 00-0041 LF 10" Exposure, 0.024" Thick, Aluminum Fascia.....	5.21	1.33
07 46 16 00-0042 Aluminum Siding Accessories (07 46 16)		
07 46 16 00-0043 LF 3/8" Pocket, Aluminum J-Channel.....	2.63	1.19
07 46 16 00-0044 LF 1/2" Pocket, Aluminum J-Channel.....	2.63	1.19
07 46 16 00-0045 LF 3/4" Pocket, Aluminum J-Channel.....	2.97	1.19
07 46 16 00-0046 LF 3/8" Pocket, Aluminum F-Channel.....	2.68	1.19
07 46 16 00-0047 LF 1/2" Pocket, Aluminum F-Channel.....	2.68	1.19
07 46 19 Steel Siding (07 46)		
Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 19 00-0001 Steel Siding Panels For Structural Steel Framing (07 46 19)		
Note: Included fasteners.		

07 Thermal And Moisture Protection**07 40 Roofing And Siding Panels****07 46 Siding**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 19 00-0002		Corrugated, Painted (07 46 19 00-0001) Note: Factory applied.		
07 46 19 00-0003	SF	20 Gauge Corrugated Steel Siding Panel, Including Fasteners And Painted <i>For Galvanized Instead Of Painted Steel, Add</i>	7.76 0.95	1.97
07 46 19 00-0004	SF	22 Gauge Corrugated Steel Siding Panel, Including Fasteners And Painted <i>For Galvanized Instead Of Painted Steel, Add</i>	7.25 0.82	1.97
07 46 19 00-0005	SF	24 Gauge Corrugated Steel Siding Panel, Including Fasteners And Painted <i>For Galvanized Instead Of Painted Steel, Add</i>	7.12 0.79	1.97
07 46 19 00-0006	SF	26 Gauge Corrugated Steel Siding Panel, Including Fasteners And Painted <i>For Galvanized Instead Of Painted Steel, Add</i>	5.63 0.42	1.97
07 46 19 00-0007	SF	28 Gauge Corrugated Steel Siding Panel, Including Fasteners And Painted <i>For Galvanized Instead Of Painted Steel, Add</i>	5.52 0.39	1.97
07 46 19 00-0008	SF	30 Gauge Corrugated Steel Siding Panel, Including Fasteners And Painted <i>For Galvanized Instead Of Painted Steel, Add</i>	5.45 0.37	1.97
07 46 19 00-0009		Box Rib, Painted (07 46 19 00-0001) Note: Factory applied.		
07 46 19 00-0010	SF	20 Gauge Box Rib Steel Siding Panel, Painted With Fasteners <i>For Galvanized Instead Of Painted Steel, Add</i>	7.38 0.86	1.97
07 46 19 00-0011	SF	22 Gauge Box Rib Steel Siding Panel, Painted With Fasteners <i>For Galvanized Instead Of Painted Steel, Add</i>	7.15 0.80	1.97
07 46 19 00-0012	SF	24 Gauge Box Rib Steel Siding Panel, Painted With Fasteners <i>For Galvanized Instead Of Painted Steel, Add</i>	7.00 0.76	1.97
07 46 19 00-0013	SF	26 Gauge Box Rib Steel Siding Panel, Painted With Fasteners <i>For Galvanized Instead Of Painted Steel, Add</i>	6.74 0.70	1.97
07 46 19 00-0014	SF	28 Gauge Box Rib Steel Siding Panel, Painted With Fasteners <i>For Galvanized Instead Of Painted Steel, Add</i>	6.20 0.56	1.97
07 46 19 00-0015		Steel Siding For Wood Frame (07 46 19) Note: Horizontal clapboard, double 5" profiler, 1/2" deep butt, wood grain pattern. Includes fasteners, trim and all accessories.		
07 46 19 00-0016	SF	Horizontal Clapboard	6.72	0.99
07 46 23		Wood Siding (07 46) Note: Includes all necessary furring strips, trim for corners, windows and doors.		
07 46 23 00-0001		Wood Lap Siding (07 46 23)		
07 46 23 00-0002	LF	8" Wide Rough Sawn Cedar Lap Siding	3.07	1.26
07 46 23 00-0003	LF	10" Wide Rough Sawn Cedar Lap Siding	3.36	1.35
07 46 23 00-0004	LF	12" Wide Rough Sawn Cedar Lap Siding	3.66	1.44
07 46 23 00-0005	LF	6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade	3.23	1.26
07 46 23 00-0006	LF	6" To 8" Wide Spruce Lap Siding, #2 Or Better	3.50	1.26
07 46 23 00-0007	LF	6" To 8" Wide Western Red Cedar, B Grade Lap Siding	4.08	1.26
07 46 23 00-0008	LF	6" To 8" Wide Western Red Cedar, A Grade Lap Siding	4.31	1.26
07 46 23 00-0009	LF	6" To 8" Wide Clear Heart Redwood Lap Siding	3.99	1.26
07 46 23 00-0010	LF	1" x 8" Cedar Round Or Flat Front Siding, Log Cabin	3.46	1.35
07 46 23 00-0011	LF	1" x 8" Cedar Beveled Siding, Channel, Rustic	3.46	1.35
07 46 23 00-0012		Tongue And Groove Siding (07 46 23)		
07 46 23 00-0013	SF	1" x 6" Tongue And Groove Southern Yellow Pine Siding	3.05	1.26
07 46 23 00-0014	SF	1" x 8" Tongue And Groove Southern Yellow Pine Siding	3.29	1.26
07 46 23 00-0015	SF	1" x 6" 105 Southern Yellow Pine Siding	3.11	1.26
07 46 23 00-0016	SF	1" x 8" 105 Southern Yellow Pine Siding	3.79	1.26
07 46 29		Plywood Siding (07 46) Note: Includes all necessary furring strips, trim for corners, windows and doors.		
07 46 29 00-0001		T-111 Siding (07 46 29)		
07 46 29 00-0002	SF	5/8" T-111 Fir, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud	2.30	0.64
		<i>For Pressure Treated, Add</i>	0.18	
07 46 29 00-0003	SF	5/8" T-111 Cedar, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud	2.27	0.64
		<i>For Pressure Treated, Add</i>	0.18	
07 46 33		Plastic Siding (07 46) Note: Includes all necessary furring strips, trim for corners, windows and doors.		
07 46 33 00-0001		Vinyl Siding (07 46 33) Note: Includes standard manufacturer's colors.		
07 46 33 00-0002		Vinyl Siding Panels (07 46 33 00-0001) Note: Excludes J-channels, starter strips and trim.		
07 46 33 00-0003		Horizontal Vinyl Siding Panels (07 46 33 00-0002) Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles.		

**Thermal And Moisture Protection 07****Roofing And Siding Panels 07 40****Siding 07 46****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0004 SF 7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.85	1.55
For 0.040" Thick, Deduct	-0.11	
For 0.042" Thick, Deduct	0.08	
For 0.046" Thick, Add	0.33	
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0005 SF 8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.68	1.46
For 0.040" Thick, Deduct	-0.11	
For 0.042" Thick, Deduct	0.08	
For 0.046" Thick, Add	0.33	
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0006 SF 9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.54	1.39
For 0.040" Thick, Deduct	-0.11	
For 0.042" Thick, Deduct	0.08	
For 0.046" Thick, Add	0.33	
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0007 SF 10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.41	1.32
For 0.040" Thick, Deduct	-0.11	
For 0.042" Thick, Deduct	0.08	
For 0.046" Thick, Add	0.33	
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0008 SF 12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.22	1.23
For 0.040" Thick, Deduct	-0.11	
For 0.042" Thick, Deduct	0.08	
For 0.046" Thick, Add	0.33	
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0009 Vertical Vinyl Siding Panels (07 46 33 00-0002)		
07 46 33 00-0010 SF 7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel.....	4.44	1.55
For Manufacturer's Custom Colors, Add	0.07	
07 46 33 00-0011 Vinyl Siding Accessories (07 46 33 00-0001)		
07 46 33 00-0012 LF 3/4" Pocket, Outside Corner Post For Vinyl Siding.....	3.87	1.19
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0013 LF 1-1/8" Pocket, Outside Corner Post For Vinyl Siding.....	6.46	1.19
For Manufacturer's Custom Colors, Add	0.20	
07 46 33 00-0014 LF 3/4" Pocket, Inside Corner Post For Vinyl Siding.....	3.42	1.19
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0015 LF 1-1/8" Pocket, Inside Corner Post For Vinyl Siding.....	3.91	1.19
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0016 LF 3/8" Pocket, J-Channel For Vinyl Siding.....	2.61	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0017 LF 1/2" Pocket, J-Channel For Vinyl Siding.....	2.57	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0018 LF 5/8" Pocket, J-Channel For Vinyl Siding.....	2.58	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0019 LF 3/4" Pocket, J-Channel For Vinyl Siding.....	2.61	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0020 LF 1" Pocket, J-Channel For Vinyl Siding.....	2.83	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0021 LF 1-1/4" Pocket, J-Channel For Vinyl Siding.....	2.85	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0022 LF 2-1/2" Pocket, J-Channel For Vinyl Siding.....	4.58	1.19
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0023 LF 1/2" Pocket, F-Channel For Vinyl Siding.....	2.24	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0024 LF 3/4" Pocket, 3-3/4" Lineals For Vinyl Siding.....	5.11	1.64
For Manufacturer's Custom Colors, Add	0.09	
07 46 33 00-0025 LF 3/4" Pocket, 5" Lineals For Vinyl Siding.....	5.18	1.64
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0026 LF 1-1/8" Pocket, 3-1/2" Lineals For Vinyl Siding.....	5.11	1.64
For Manufacturer's Custom Colors, Add	0.09	
07 46 33 00-0027 LF 3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding.....	4.01	1.19
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0028 LF Vinyl Starter Strip For Vinyl Siding.....	3.64	1.19
For Manufacturer's Custom Colors, Add	0.06	
07 46 33 00-0029 LF Undersill Trim For Vinyl Siding.....	2.80	1.19
For Manufacturer's Custom Colors, Add	0.02	
07 46 33 00-0030 Vinyl Soffit And Fascia (07 46 33 00-0001)		
Note: Excludes J-channel.		
07 46 33 00-0031 LF 6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	3.05	1.27
For 0.038" Thick, Deduct	-0.10	
For 0.040" Thick, Deduct	-0.06	
For 0.046" Thick, Add	0.11	
For Manufacturer's Custom Colors, Add	0.03	
07 46 33 00-0032 LF 10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	3.51	1.33
For 0.038" Thick, Deduct	-0.18	
For 0.040" Thick, Deduct	-0.11	
For 0.046" Thick, Add	0.19	
For Manufacturer's Custom Colors, Add	0.04	

07 Thermal And Moisture Protection**07 40 Roofing And Siding Panels****07 46 Siding**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0033 LF 1' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	3.75	1.37
For 0.038" Thick, Deduct	-0.23	
For 0.040" Thick, Deduct	-0.15	
For 0.046" Thick, Add	0.22	
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0034 LF 1'-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	4.39	1.44
For 0.038" Thick, Deduct	-0.35	
For 0.040" Thick, Deduct	-0.23	
For 0.046" Thick, Add	0.34	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0035 LF 2' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	5.19	1.57
For 0.038" Thick, Deduct	-0.45	
For 0.040" Thick, Deduct	-0.29	
For 0.046" Thick, Add	0.45	
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0036 LF 3' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	6.51	1.74
For 0.038" Thick, Deduct	-0.70	
For 0.040" Thick, Deduct	-0.46	
For 0.046" Thick, Add	0.67	
For Manufacturer's Custom Colors, Add	0.15	
07 46 33 00-0037 LF 4' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	7.86	1.92
For 0.038" Thick, Deduct	-0.92	
For 0.040" Thick, Deduct	-0.60	
For 0.046" Thick, Add	0.89	
For Manufacturer's Custom Colors, Add	0.20	
07 46 33 00-0038 LF 5' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	9.27	2.11
For 0.038" Thick, Deduct	-1.17	
For 0.040" Thick, Deduct	-0.77	
For 0.046" Thick, Add	1.12	
For Manufacturer's Custom Colors, Add	0.25	
07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia.....	3.18	1.24
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia.....	3.46	1.27
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia.....	3.62	1.30
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia.....	3.83	1.33
For Manufacturer's Custom Colors, Add	0.06	
07 46 33 00-0043 Fiberglass Siding (07 46 33)		
07 46 33 00-0044 Corrugated Panels (07 46 33 00-0043)		
07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels.....	5.22	1.82
07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels.....	5.53	1.64
07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels.....	6.08	1.64
07 46 33 00-0048 Flat Panels (07 46 33 00-0043)		
07 46 33 00-0049 SF 6 Ounce Flat Fiberglass Panels.....	5.02	1.64
07 46 33 00-0050 SF 8 Ounce Flat Fiberglass Panels.....	5.53	1.64
07 46 46 Fiber-Cement Siding (07 46)		
Note: Smooth or patterns. Includes sealer and primer.		
07 46 46 00-0001 5/16" Thick, Fiber Cement Lap Siding (07 46 46)		
07 46 46 00-0002 SF 5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	5.13	1.92
07 46 46 00-0003 SF 6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	4.88	1.82
07 46 46 00-0004 SF 7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	4.77	1.77
07 46 46 00-0005 SF 8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	4.66	1.73
07 46 46 00-0006 SF 9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	4.44	1.64
07 46 46 00-0007 SF 12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	4.23	1.55
07 46 46 00-0008 LF Starter Strip, Fiber Cement Lap Siding.....	1.12	0.46
07 46 46 00-0009 Fiber Cement Shingle Siding (07 46 46)		
07 46 46 00-0010 SF Fiber Cement Shingle Siding.....	7.36	1.68
07 46 46 00-0011 Fiber Cement Vertical Panel Siding (07 46 46)		
07 46 46 00-0012 SF Fiber Cement Vertical Panel Siding.....	3.76	1.37
07 46 46 00-0013 Fiber Cement Trim Boards (07 46 46)		
07 46 46 00-0014 7/16" Thick, Fiber Cement Trim Boards (07 46 46 00-0013)		
07 46 46 00-0015 LF 4" Wide, 7/16" Thick, Fiber Cement Trim Board.....	2.45	0.91
07 46 46 00-0016 LF 6" Wide, 7/16" Thick, Fiber Cement Trim Board.....	3.07	1.00
07 46 46 00-0017 LF 8" Wide, 7/16" Thick, Fiber Cement Trim Board.....	3.64	1.10
07 46 46 00-0018 LF 12" Wide, 7/16" Thick, Fiber Cement Trim Board.....	4.72	1.28

**Thermal And Moisture Protection****07**

Roofing And Siding Panels

07 40

Siding

07 46**07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 46 00-0019 3/4" Thick Fiber Cement Trim Boards (07 46 46 00-0013)		
07 46 46 00-0020 LF 4" Wide, 3/4" Thick, Fiber Cement Trim Board	2.56	0.91
07 46 46 00-0021 LF 6" Wide, 3/4" Thick, Fiber Cement Trim Board	3.23	1.00
07 46 46 00-0022 LF 8" Wide, 3/4" Thick, Fiber Cement Trim Board	3.91	1.10
07 46 46 00-0023 LF 12" Wide, 3/4" Thick, Fiber Cement Trim Board	4.14	1.28
07 46 46 00-0024 1" Thick Fiber Cement Trim Boards (07 46 46 00-0013)		
07 46 46 00-0025 LF 4" Wide, 1" Thick, Fiber Cement Trim Board	2.69	0.91
07 46 46 00-0026 LF 6" Wide, 1" Thick, Fiber Cement Trim Board	3.46	1.00
07 46 46 00-0027 LF 8" Wide, 1" Thick, Fiber Cement Trim Board	4.25	1.10
07 46 46 00-0028 LF 12" Wide, 1" Thick, Fiber Cement Trim Board	5.59	1.28
07 46 46 00-0029 Fiber Cement Fascia Board (07 46 46)		
07 46 46 00-0030 LF 5/4" x 3-1/2" Fiber Cement Fascia Board.....	4.88	1.81
07 46 46 00-0031 LF 5/4" x 5-1/2" Fiber Cement Fascia Board.....	6.01	2.01
07 46 46 00-0032 LF 5/4" x 7-1/4" Fiber Cement Fascia Board.....	6.64	2.01
07 46 46 00-0033 LF 5/4" x 11-1/4" Fiber Cement Fascia Board.....	8.73	2.36
07 46 46 00-0034 Fiber Cement Soffit Boards (07 46 46)		
07 46 46 00-0035 SF 1/4" Thick, Non Vented Fiber Cement Soffit	4.62	1.30
07 46 46 00-0036 SF 1/4" Thick, Vented Fiber Cement Soffit.....	4.88	1.30
07 46 63 Fabricated Panel Assemblies With Siding (07 46)		
07 46 63 00-0001 Metal Liner Panels (07 46 63)		
07 46 63 00-0002 Galvanized Metal Liner Panels (07 46 63 00-0001)		
07 46 63 00-0003 SF 24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	6.97	1.73
07 46 63 00-0004 SF 22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	7.50	1.73
07 46 63 00-0005 SF 20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	8.45	1.73
07 46 63 00-0006 SF 18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	8.54	1.73
07 50 Membrane Roofing (07)		
Note: Includes placement of materials on roof up to 2-1/2 stories. See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.		
07 51 Built-Up Bituminous Roofing (07 50)		
07 51 13 Built-Up Asphalt Roofing (07 51)		
07 51 13 00-0001 Built-Up Asphalt Roofing Components (07 51 13)		
07 51 13 00-0002 Built-Up Asphalt Membrane Roofing (07 51 13 00-0001)		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0066 for built-up roofing demolition.		
07 51 13 00-0003 Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
Note: Includes applying cold adhesive and embedding the membrane.		
07 51 13 00-0004 Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0003)		
07 51 13 00-0005 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied	57.46	
For Up To 10, Add	10.66	
For >10 To 25, Add	8.06	
07 51 13 00-0006 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied	139.07	
For Up To 10, Add	14.74	
For >10 To 25, Add	12.14	
07 51 13 00-0007 Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)		
07 51 13 00-0008 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied.....	3.73	
07 51 13 00-0009 Hot-Mopped, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
Note: Includes mopping hot asphalt and embedding the membrane.		
07 51 13 00-0010 Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0009)		
07 51 13 00-0011 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....	45.44	
For Up To 10, Add	10.06	
For >10 To 25, Add	7.46	
07 51 13 00-0012 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....	47.77	
For Up To 10, Add	10.17	
For >10 To 25, Add	7.58	
07 51 13 00-0013 SQ Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped.....	50.42	
For Up To 10, Add	10.31	
For >10 To 25, Add	7.71	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0014 SQ Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped.....	79.74	
For Up To 10, Add	11.77	
For >10 To 25, Add	9.18	
07 51 13 00-0015 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped	127.06	
For Up To 10, Add	14.14	
For >10 To 25, Add	11.54	
07 51 13 00-0016 SQ Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped	100.16	
For Up To 10, Add	13.53	
For >10 To 25, Add	10.69	
07 51 13 00-0017 Hot-Mopped, Built-Up Asphalt Roofing Flashing (07 51 13 00-0009)		
07 51 13 00-0018 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped	2.64	
07 51 13 00-0019 Mechanically Fastened, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
Note: Includes fasteners.		
07 51 13 00-0020 Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0019)		
07 51 13 00-0021 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....	41.41	
For Up To 10, Add	5.96	
For >10 To 25, Add	4.66	
07 51 13 00-0022 SQ Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....	73.38	
For Up To 10, Add	7.56	
For >10 To 25, Add	6.26	
07 51 13 00-0023 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened.....	120.70	
For Up To 10, Add	9.92	
For >10 To 25, Add	8.63	
07 51 13 00-0024 Mechanically Fastened, Built-Up Asphalt Roofing Flashing (07 51 13 00-0019)		
07 51 13 00-0025 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened	3.03	
07 51 13 00-0026 Asphalt Saturated Organic Felt (07 51 13 00-0001)		
07 51 13 00-0027 Cold Adhesive Applied, Asphalt Saturated Organic Felt (07 51 13 00-0026)		
Note: Includes applying cold adhesive and embedding the felt.		
07 51 13 00-0028 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	56.01	
For Up To 10, Add	10.59	
For >10 To 25, Add	7.99	
07 51 13 00-0029 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	62.01	
For Up To 10, Add	10.89	
For >10 To 25, Add	8.29	
07 51 13 00-0030 Hot-Mopped, Asphalt Saturated Organic Felt (07 51 13 00-0026)		
Note: Includes mopping hot asphalt and embedding the felt.		
07 51 13 00-0031 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	43.99	
For Up To 10, Add	9.98	
For >10 To 25, Add	7.39	
07 51 13 00-0032 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	49.99	
For Up To 10, Add	10.28	
For >10 To 25, Add	7.69	
07 51 13 00-0033 Mechanically Fastened, Asphalt Saturated Organic Felt (07 51 13 00-0026)		
Note: Includes fasteners.		
07 51 13 00-0034 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	21.99	
For Up To 10, Add	4.99	
For >10 To 25, Add	3.69	
07 51 13 00-0035 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	27.99	
For Up To 10, Add	5.29	
For >10 To 25, Add	3.99	
07 51 13 00-0036 Surfacing (07 51 13 00-0001)		
07 51 13 00-0037 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat.....	101.63	
For Up To 10, Add	24.54	
For >10 To 25, Add	18.06	
07 51 13 00-0038 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat	136.94	
For Up To 10, Add	26.31	
For >10 To 25, Add	19.82	
07 51 13 00-0039 CY Gravel Roofing Ballast, Spread To Desired Thickness	115.83	
Note: Excludes hot asphalt or cold adhesive.		
07 51 13 00-0040 SQ Protective Polypropylene Fabric Mat, Loose Laid	28.90	
Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.		
For Up To 10, Add	4.01	
For >10 To 25, Add	3.16	



Thermal And Moisture Protection			07
Membrane Roofing			07 50
Built-Up Bituminous Roofing			07 51

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0041	SQ		Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating, Price Per Coat .....59.11 Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs. For Up To 10, Add .....7.63 For >10 To 25, Add .....6.07		
07 51 13 00-0042	SQ		Fibrated Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat .....53.27 Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs. For Up To 10, Add .....7.33 For >10 To 25, Add .....5.78		
07 51 13 00-0043	SQ		Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per Coat .....69.21 Note: Reflective coating for use over smooth-surfaced built-up roofs. For Up To 10, Add .....8.13 For >10 To 25, Add .....6.57		
07 51 13 00-0044	SQ		100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat .....69.73 Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems. For Up To 10, Add .....8.16 For >10 To 25, Add .....6.60 For Installation Over Granule Surfaced Asphalt Roof Systems, Add .....19.40		
07 51 13 00-0045	SQ		100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat .....71.87 Note: Bleed blocking coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems. For Up To 10, Add .....8.26 For >10 To 25, Add .....6.71 For Installation Over Granule Surfaced Asphalt Roof Systems, Add .....20.11		
07 51 13 00-0046	SF		Ceramic Coated Roofing Granules, Hand Broadcast .....1.38 Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0047	SF		Energy Star, Ceramic Coated Roofing Granules, Hand Broadcast .....2.74 Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0048			Walkway Pads (07 51 13 00-0001) Note: Set in hot asphalt or cold adhesive.		
07 51 13 00-0049	LF		5/16" Thick, 32" Wide, Skid Resistant, SBS Modified Bitumen Walkway Pad .....14.29		
07 51 13 00-0050	LF		1/2" Thick, 32" Wide, Skid Resistant, SBS Modified Bitumen Walkway Pad .....16.80		
07 51 13 00-0051			Cant And Tapered Edge Strips (07 51 13 00-0001)		
07 51 13 00-0052	LF		2" x 2" Perlite Cant Strip .....2.70		
07 51 13 00-0053	LF		3" x 3" Perlite Cant Strip .....2.76		
07 51 13 00-0054	LF		4" x 4" Perlite Cant Strip .....3.03		
07 51 13 00-0055	LF		3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally .....2.92		
07 51 13 00-0056	LF		4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally .....3.03		
07 51 13 00-0057	LF		1/2" x 6" Perlite Tapered Edge Strip .....3.03		
07 51 13 00-0058	LF		1/2" x 12" Perlite Tapered Edge Strip .....3.34		
07 51 13 00-0059	LF		1" x 12" Perlite Tapered Edge Strip .....3.43		
07 51 13 00-0060	LF		1" x 24" Perlite Tapered Edge Strip .....3.76		
07 51 13 00-0061	LF		1-1/2" x 12" Perlite Tapered Edge Strip .....3.73		
07 51 13 00-0062	LF		1-1/2" x 18" Perlite Tapered Edge Strip .....4.32		
07 51 13 00-0063	LF		1-1/2" x 24" Perlite Tapered Edge Strip .....4.75		
07 51 13 00-0064			Asphalt Primer (07 51 13 00-0001)		
07 51 13 00-0065	SQ		Asphalt Primer For Roofing Systems .....23.45 Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal surfaces.		
07 51 13 00-0066			Demolish Built-Up Roofing (07 51 13 00-0001) Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00- 0000 for chutes, dumpsters and hauling.		
07 51 13 00-0067	SQ		Demolish Gravel/Slag Surfaced, Built Up Roofing System .....274.54 For Up To 10, Add .....68.12 For >10 To 25, Add .....40.87		
07 51 13 00-0068	SQ		Demolish Cap Sheet Surfaced, Built Up Roofing System .....211.79 Note: Includes protective surfacing. For Up To 10, Add .....52.55 For >10 To 25, Add .....31.53		
07 51 13 00-0069			Roofing System Warranty (07 51 13 00-0001) Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.		
07 51 13 00-0070	EA		Up To 70 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....350.00		
07 51 13 00-0071	SQ		>70 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....5.00		
07 51 13 00-0072	EA		Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....400.00		
07 51 13 00-0073	SQ		>50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty8.00		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0074 EA Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	550.00	
07 51 13 00-0075 SQ >50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	11.00	
07 51 13 00-0076 Built-Up Roofing Components (Tremco) (07 51 13) Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0077 Cold Applied BUR Base Plies And Ply Sheets (07 51 13 00-0076)		
07 51 13 00-0078 SQ BURmastic Composite Ply, Cold Applied BUR Component..... Note: Asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.	78.94	
07 51 13 00-0079 SQ BURmastic Premium Composite Ply, Cold Applied BUR Component Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.	95.47	
07 51 13 00-0080 SQ BURmastic Supreme Composite Ply, Cold Applied BUR Component..... Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.	105.57	
07 51 13 00-0081 SQ 28 LB BURmastic Glass Ply, Cold Applied BUR Component Note: Asphalt coated fiberglass base or ply sheet. Type II.	24.43	
07 51 13 00-0082 SQ 33 LB BURmastic Glass Ply, Cold Applied BUR Component Note: Asphalt coated fiberglass base or ply sheet. Type II.	35.00	
07 51 13 00-0083 SQ POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component..... Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.	142.38	
07 51 13 00-0084 SQ POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component..... Note: A smooth surfaced, non woven fiberglass/scrim fiberglass bilaminate reinforced modified bitumen membrane. 120 mil.	131.78	
07 51 13 00-0085 Hot Or Cold Applied Modified Bitumen Cap Membrane (07 51 13 00-0076)		
07 51 13 00-0086 SQ POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component..... Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.	82.28	
07 51 13 00-0087 SQ POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component..... Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.	214.21	
07 51 13 00-0088 SQ POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component..... Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.	352.85	
07 51 13 00-0089 SQ POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component..... Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.	96.65	
07 51 13 00-0090 SQ POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.	146.61	
07 51 13 00-0091 SQ POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component Note: Fire rated, granule surfaced, polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.	351.01	
07 51 13 00-0092 SQ POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component..... Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G. 120 mils.	256.69	
07 51 13 00-0093 SQ POWERply HE FR Cap Sheet, Hot Applied BUR Component..... Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.	251.97	
07 51 13 00-0094 Self Adhesive Base Plies And Ply Sheets (07 51 13 00-0076)		
07 51 13 00-0095 SQ POWERply SA Base Sheet, Self Adhesive Roofing Note: A self adhesive, fiberglass reinforced SBS modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.	146.69	
07 51 13 00-0096 SQ POWERply SA FR Membrane, Self Adhesive Roofing..... Note: A fire rated, granule surfaced, polyester reinforced, self adhesive SBS modified bitumen membrane. Type I, Grade G. 130 mils.	292.79	
07 51 13 00-0097 Flashings (07 51 13 00-0076)		
07 51 13 00-0098 LF 11-1/2" Hypalon Elastomeric Flashing..... Note: 45 mils.	9.91	
07 51 13 00-0099 LF 19" Hypalon Elastomeric Flashing Note: 45 mils.	16.23	
07 51 13 00-0100 LF 25" Hypalon Elastomeric Flashing Note: 45 mils.	21.56	
07 51 13 00-0101 LF 38" Hypalon Elastomeric Flashing Note: 45 mils.	31.51	
07 51 13 00-0102 LF 60-1/2" Hypalon Elastomeric Flashing..... Note: 45 mils.	52.08	
07 51 13 00-0103 LF 12" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	8.04	
07 51 13 00-0104 LF 18" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	13.23	
07 51 13 00-0105 LF 24" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	17.63	
07 51 13 00-0106 LF 36" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	25.65	
07 51 13 00-0107 LF 60" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	43.26	

**Thermal And Moisture Protection 07****Membrane Roofing 07 50****Built-Up Bituminous Roofing 07 51****07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0108 LF 4" BURmesh Fabric..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	2.54	
07 51 13 00-0109 LF 6" BURmesh Fabric..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	2.63	
07 51 13 00-0110 LF 12" BURmesh Fabric..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.66	
07 51 13 00-0111 LF 36" BURmesh Fabric..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	9.42	
07 51 13 00-0112 Cold Applied Adhesives (07 51 13 00-0076)		
07 51 13 00-0113 SQ BURmastic Inter-Ply Cold Applied Adhesive.....	94.52	
07 51 13 00-0114 SQ BURmastic Flood Coat Cold Applied Adhesive	155.44	
07 51 13 00-0115 SQ BURmastic SF Inter-Ply Cold Applied Adhesive	119.30	
07 51 13 00-0116 SQ BURmastic LV Inter-Ply Cold Applied Adhesive	94.52	
07 51 13 00-0117 SQ POWERply Standard Inter-Ply Cold Applied Adhesive.....	49.88	
07 51 13 00-0118 SQ POWERply Standard Flood Coat Cold Applied Adhesive.....	108.18	
07 51 13 00-0119 SQ POWERply White On White Cold Applied Adhesive.....	106.83	
07 51 13 00-0120 SQ Rock-It Cold Applied Adhesive For Gravel Applications	287.48	
07 51 13 00-0121 SQ FAS-n-FREE Cold Applied Adhesive (Beads 12" OC)..... Note: For insulation only.	158.30	
07 51 13 00-0122 SQ ECOLastic Cold Applied Adhesive.....	180.57	
07 51 13 00-0123 Hot Applied Adhesives (07 51 13 00-0076)		
07 51 13 00-0124 SQ Premium III Asphalt Inter-Ply Hot Applied Adhesive	36.97	
07 51 13 00-0125 SQ Premium III Asphalt Flood Coat Hot Applied Adhesive.....	65.46	
07 51 13 00-0126 Flashings Adhesives (07 51 13 00-0076)		
07 51 13 00-0127 LF Sheeting Bond Flashing Adhesive..... Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.	13.17	
07 51 13 00-0128 LF Polyroof SF Flashing Mastic..... Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.	16.71	
07 51 13 00-0129 LF ELS Flashing Mastic..... Note: Used for repairing flashings and asphalt built-up roof defects.	11.04	
07 51 13 00-0130 LF TremSEAL D General Purpose Sealant	4.29	
07 51 13 00-0131 LF TremSEAL HP High Performance Sealant	4.38	
07 51 13 00-0132 LF TremSEAL S Silicone Sealant	4.30	
07 51 13 00-0133 Surfacing (07 51 13 00-0076)		
07 51 13 00-0134 SQ TremLastic SP Non Fibered Elastomeric Emulsion Cold Applied Coating.....	138.93	
07 51 13 00-0135 SQ ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating.....	312.64	
07 51 13 00-0136 SQ Polar Coat.....	83.59	
07 51 13 00-0137 SQ Alumination 301, Asphalt Based, Fibrated Aluminum Roof Coating.....	101.10	
07 51 13 00-0138 SQ Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls.....	285.34	
07 51 13 00-0139 SQ Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls.....	134.34	
07 51 13 00-0140 SQ 100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB).....	36.51	
07 51 13 00-0141 Walkway Protection Pads (07 51 13 00-0076)		
07 51 13 00-0142 LF 36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®)	19.80	
07 51 13 00-0143 Primer (07 51 13 00-0076)		
07 51 13 00-0144 SQ TREMprime WB Primer	24.19	
07 51 13 00-0145 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating	47.47	
07 51 13 00-0146 Liquid Applied Roofing (07 51 13 00-0076)		
07 51 13 00-0147 SQ Trem-LAR LRM H Waterproofing (Horizontal)	238.21	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0148 SQ Trem-LAR LRM V Waterproofing (Vertical).....	243.71	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0149 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB, Concrete Or Single Ply Surfaces.....	302.79	
Note: Two part liquid applied polyurethane roof coating. 48 mils.		
07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces	391.14	
Note: Two part liquid applied polyurethane roof coating. 64 mils.		
07 51 13 00-0151 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating.....	227.50	
Note: Two part liquid applied polyurethane roof coating. 32 mils.		
07 51 13 00-0152 SQ AlphaGuard Glass Mat	34.04	
Note: Reinforcement mat for AlphaGuard systems.		
07 51 13 00-0153 SQ AlphaGuard C-Prime Primer	49.80	
Note: 100% solids epoxy primer for concrete surfaces.		
07 51 13 00-0154 SQ AlphaGuard M-Prime Primer.....	52.88	
Note: Water based primer for metal and plastic surfaces.		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0155	SQ	Geogard Primer Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.	36.85	
07 51 13 00-0156	SQ	AlphaGuard Primer WB Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the application of AlphaGuard systems.	33.34	
07 51 13 00-0157		Atactic-Polypropylene (APP) Products (07 51 13 00-0076)		
07 51 13 00-0158	SQ	POWERply APP Base Sheet.....	123.30	
07 51 13 00-0159	SQ	POWERply APP FR.....	231.66	
07 51 13 00-0160	SQ	POWERply APP Smooth.....	185.71	
07 51 13 00-0161		Tri-Polymer Alloy (TPA) White Membrane (07 51 13 00-0076)		
07 51 13 00-0162	SQ	45 Mil Tri-Polymer Alloy (TPA) White Membrane.....	329.96	
07 51 13 00-0163	SQ	60 Mil Tri-Polymer Alloy (TPA) White Membrane.....	445.27	
07 51 13 00-0164	SQ	80 Mil Tri-Polymer Alloy (TPA) White Membrane.....	502.62	
07 51 13 00-0165		Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane (07 51 13 00-0076)		
07 51 13 00-0166	SQ	45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	375.51	
07 51 13 00-0167	SQ	60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	456.12	
07 51 13 00-0168	SQ	80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	553.86	
07 51 13 00-0169		Tri-Polymer Alloy (TPA) Membrane Accessories (07 51 13 00-0076)		
07 51 13 00-0170	EA	>1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco).....	68.02	
07 51 13 00-0171	EA	>4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco).....	77.19	
07 51 13 00-0172	LF	36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco).....	12.78	
07 51 13 00-0173	SQ	Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco).....	43.13	
07 51 13 00-0174		Thermoplastic Polyolefin (TPO) Polyester White Membrane (07 51 13 00-0076)		
07 51 13 00-0175	SQ	45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	184.32	
07 51 13 00-0176	SQ	60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	184.88	
07 51 13 00-0177	SQ	80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	320.63	
07 51 13 00-0178		Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane (07 51 13 00-0076)		
07 51 13 00-0179	SQ	45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	210.15	
07 51 13 00-0180	SQ	60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	233.64	
07 51 13 00-0181	SQ	80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	332.96	
07 51 13 00-0182		Tremply HP 4510 CSPE White Membrane (07 51 13 00-0076)		
07 51 13 00-0183	SQ	45 Mil Tremply HP 4510 CSPE White Membrane.....	537.17	
07 51 13 00-0184		Single Ply Adhesives (07 51 13 00-0076)		
07 51 13 00-0185	SQ	Low VOC, TPA Bonding Adhesive (Tremco).....	91.69	
07 51 13 00-0186	SQ	Water Based, TPA Bonding Adhesive (Tremco).....	102.76	
07 51 13 00-0187	SQ	Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco).....	90.09	
07 51 13 00-0188	SQ	Low VOC, TPO Bonding Adhesive (Tremco).....	62.18	
07 51 13 00-0189		Warranty (07 51 13 00-0076)		
07 51 13 00-0190	EA	Up To 10,000 SF 15 Year Roofing System Warranty.....	1,500.00	
07 51 13 00-0191	SF	>10,000 SF 15 Year Roofing System Warranty.....	0.15	
07 51 13 00-0192	EA	Up To 10,000 SF 20 Year Roofing System Warranty.....	2,000.00	
07 51 13 00-0193	SF	>10,000 SF 20 Year Roofing System Warranty.....	0.20	
07 51 13 00-0194		Built-Up Roofing Components (Garland) (07 51 13) Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0195		Modified Cap Membranes (07 51 13 00-0194)		
07 51 13 00-0196		Modified Cap Membranes, Hot/Cold Applied (07 51 13 00-0195) Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0197	SQ	Stressply® FR Mineral Dual Fiberglass Reinforced SBS-Modified Fiberglass Reinforced Membrane, Minimum 145 Mil.....	316.89	
07 51 13 00-0198	SQ	Stressply® Plus Poly/Fiberglass Reinforced, Smooth SBS-Modified Membrane With Recycled Rubber, 105 Mil.....	223.22	
07 51 13 00-0199	SQ	Stressply® Plus FR Mineral Poly/Fiberglass Reinforced SBS-Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil.....	275.55	
07 51 13 00-0200	SQ	Stressply® E Eco-Responsible, Smooth SBS/SIS Membrane With High Recycled Content And Renewable Materials.....	286.22	
07 51 13 00-0201	SQ	Stressply® E FR Mineral Eco-Responsible, SBS/SIS Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil.....	404.89	
07 51 13 00-0202	SQ	Stressply® EUV SPF Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 SBS/SIS-Modified Membrane With Recycled Rubber, 160 Mil.....	446.22	



Thermal And Moisture Protection			07
Membrane Roofing			07 50
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0203	SQ		Versiply® 80 Dual Fiberglass Reinforced SBS-Modified Membrane, 80 Mil.....	185.50	
Note: Low strength cap sheet for hot or cold modified systems used with gravel.					
07 51 13 00-0204	SQ		Versiply® Mineral Dual Fiberglass Reinforced SBS-Modified Membrane, Minimum 145 Mil.....	235.55	
07 51 13 00-0205	SQ		BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced SBS Modified Membrane, 140 Mil	182.22	
07 51 13 00-0206			Modified Cap Membranes, Self-Adhering (07 51 13 00-0195)		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.					
07 51 13 00-0207	SQ		Stressply® SA FR Mineral SBS-Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil.....	281.22	
Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.					
07 51 13 00-0208			Modified Cap Membranes, Torch-Applied (07 51 13 00-0195)		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.					
07 51 13 00-0209	SQ		Stressply® IV Dual Fiberglass Reinforced, Smooth SBS-Modified Membrane, Torch Applied, 180 Mil	346.22	
Note: Smooth surfaced SBS torch modified top ply of torch system with gravel.					
07 51 13 00-0210	SQ		Stressply® IV Mineral Dual Fiberglass Reinforced SBS-Modified Membrane, Torch Applied, Minimum 195 Mil	375.55	
07 51 13 00-0211	SQ		Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface SBS-Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil.....	396.89	
07 51 13 00-0212			Modified Cap Membranes, Coal Tar Pitch Systems (07 51 13 00-0195)		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.					
07 51 13 00-0213	SQ		Millennium® Poly/Fiberglass Reinforced, Smooth SBS-Modified Coal Tar Membrane, Minimum 120 Mil	316.36	
07 51 13 00-0214	SQ		Millennium® FR Mineral Poly/Fiberglass Reinforced SBS-Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil	502.22	
07 51 13 00-0215	SQ		Millennium® Mineral Poly/Fiberglass Reinforced SBS-Modified Coal Tar Membrane, Minimum 160 Mil.....	410.22	
07 51 13 00-0216			Base Plys (07 51 13 00-0194)		
Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems.					
07 51 13 00-0217	SQ		Flexbase® 120 Fiberglass Reinforced SBS-Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil	302.22	
07 51 13 00-0218	SQ		Flexbase® 80 Fiberglass Reinforced SBS-Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil	179.22	
07 51 13 00-0219	SQ		HPR® Aqua Shield Styrene-Butadiene Rubber (SBR)-Modified Fiberglass Reinforced Self-Adhering Underlayment For Ice And Water Protection, 60 Mil.....	113.00	
07 51 13 00-0220	SQ		HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil	42.17	
Note: Glasbase used in cold system, nailed to deck, or inner ply 2 plies with cap.					
07 51 13 00-0221	SQ		HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil	28.70	
Note: Inner ply felts for hot applied built up and modified BUR systems.					
07 51 13 00-0222	SQ		HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil.....	63.50	
07 51 13 00-0223	SQ		HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil.....	37.50	
07 51 13 00-0224	SQ		HPR® Tribase Premium Poly/Fiberglass Reinforced SBS-Modified Base Sheet, 60 Mil.....	109.36	
Note: Inner plies for cold applied modified, SBS modified, or 2 plies under cap sheet.					
07 51 13 00-0225	SQ		Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil	181.03	
07 51 13 00-0226	SQ		HPR® SA FR Base Sheet SBS Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil.....	158.22	
Note: Self adhering base ply for self adhering 2 ply system.					
07 51 13 00-0227	SQ		HPR® Torch Base Sheet Fiberglass Reinforced SBS-Modified Base Sheet Used As Base Ply For Torch Applied Membranes, 110 Mil.....	213.22	
Note: Torch base sheet used as base ply for torch applied system.					
07 51 13 00-0228	SQ		StressBase® 120 Fiberglass Reinforced SBS-Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil.....	158.50	
07 51 13 00-0229	SQ		StressBase® 80 Fiberglass Reinforced, Smooth SBS-Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil	132.17	
07 51 13 00-0230	LF		Garmesh® 6" SBS Coated Woven Fiberglass Reinforcing Fabric.....	3.50	
07 51 13 00-0231	SQ		Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems.....	35.60	
07 51 13 00-0232	SQ		Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	33.20	
07 51 13 00-0233	LF		Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	4.52	
07 51 13 00-0234	LF		Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	3.37	
07 51 13 00-0235	LF		Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	3.44	
07 51 13 00-0236	SQ		4873 HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications.....	70.20	
07 51 13 00-0237			Coatings And Mastics For Roof Installation, Restoration And Repairs (07 51 13 00-0194)		
07 51 13 00-0238	SQ		Water Based Roof Primer, GarlaPrime VOC Primer (1 GAL/SQ).....	30.42	
07 51 13 00-0239	SQ		All-Knight™ Primer Bleed Blocker For Asphalt And Coal Tar Roofs Used With White-Knight, Garla-Brite And Pyramic Roof Systems (0.5 GAL/SQ).....	42.02	
07 51 13 00-0240	SQ		Black-Knight® Primer (0.5 GAL/SQ).....	21.62	
07 51 13 00-0241	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply (1.5-2.0 GAL/SQ)	75.82	
07 51 13 00-0242	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ)	181.30	
07 51 13 00-0243	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ)	289.13	
07 51 13 00-0244	SQ		Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply (30 LB/SQ).....	96.16	
07 51 13 00-0245	SQ		Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat (70 LB/SQ).....	210.73	
07 51 13 00-0246	SQ		Energizer® K Plus FR Cold Applied SBS Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	87.50	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0247 SQ Energizer® K Plus FR Cold Applied SBS Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration (6 GAL/SQ)	167.14	
07 51 13 00-0248 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	207.46	
07 51 13 00-0249 SQ Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration (6 GAL/SQ)	407.15	
07 51 13 00-0250 SQ Garlastic® KM Plus Premium Hot Applied, SEBS Modified Adhesive/Waterproof, Interply (25 LB/SQ)	77.72	
07 51 13 00-0251 SQ Garlastic® KM Plus Premium Hot Applied, SEBS Modified Adhesive/Waterproof, Flood Coat (60 LB/SQ)	171.73	
07 51 13 00-0252 SQ Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With SBS Sheets Only (2-3 GAL/SQ)	234.15	
07 51 13 00-0253 SQ Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With SBS Sheets Only (2.0-2.5 GAL/SQ)	166.30	
07 51 13 00-0254 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply (25 LB/SQ)	45.55	
07 51 13 00-0255 SQ HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat (60 LB/SQ)	94.53	
07 51 13 00-0256 SQ Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel (150 SF/Cartridge)	79.26	
07 51 13 00-0257 SQ Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recovers (150 SF/Cartridge)	78.90	
07 51 13 00-0258 SQ Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products (150-200 SF/GAL)	34.48	
Note: Adheres all insulation layers for cold systems.		
07 51 13 00-0259 SQ Pyramic® White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required (1-1.5 GAL/SQ)	60.18	
07 51 13 00-0260 SQ Pyramic® Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System, Top Coat Required (1-1.5 GAL/SQ)	59.62	
07 51 13 00-0261 LF Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh (1 GAL/7 LF)	11.72	
07 51 13 00-0262 SQ Solex® White, Kynar Acrylic Topcoat Roof Coating Used With Pyramic Base Coat (0.5 GAL/SQ)	111.62	
07 51 13 00-0263 SQ Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric (2-2.5 GAL/SQ)	209.24	
07 51 13 00-0264 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ)	111.53	
07 51 13 00-0265 SQ Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Restoration (6-8 GAL/SQ)	153.94	
07 51 13 00-0266 SQ Weatherking® Cold Applied Rubber Modified Asphalt Interplay Adhesive For Slopes Up To 3:12, Interply (2.5 GAL/SQ)	68.30	
07 51 13 00-0267 SQ Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System (2-3 GAL/SQ)	200.84	
07 51 13 00-0268 SQ Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply (2.5 GAL/SQ)	67.80	
Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.		

07 52 Modified Bituminous Membrane Roofing (07 50)**07 52 13 Atactic-Polypropylene Modified Bituminous Membrane Roofing** (07 52)

Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.

07 52 13 11 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)**07 52 13 11-0001 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing** (07 52 13 11)

Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.

07 52 13 11-0002 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 11-0001)

07 52 13 11-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied	96.58	
For Up To 10, Add	12.61	
For >10 To 25, Add	10.02	
07 52 13 11-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied	115.22	
For Up To 10, Add	13.55	
For >10 To 25, Add	10.95	
07 52 13 11-0005 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied	187.18	
For Up To 10, Add	17.14	
For >10 To 25, Add	14.55	
07 52 13 11-0006 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	189.66	
For Up To 10, Add	18.01	
For >10 To 25, Add	15.17	
07 52 13 11-0007 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	130.20	
For Up To 10, Add	15.04	
For >10 To 25, Add	12.19	
For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 13 11-0008 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	149.05	
For Up To 10, Add	15.98	
For >10 To 25, Add	13.14	
For Factory Applied White Reflective Surfacing, Add	52.56	



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Modified Bituminous Membrane Roofing			07 52

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 11-0009	SQ		180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied200.40 For Up To 10, Add18.55 For >10 To 25, Add15.70 For Factory Applied White Reflective Surfacing, Add52.56		
07 52 13 11-0010			Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing (07 52 13 11-0001)		
07 52 13 11-0011	SF		160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied .....4.21		
07 52 13 11-0012	SF		180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied .....4.32 For Factory Applied White Reflective Surfacing, Add .....0.53		
07 52 13 13			Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)		
07 52 13 13-0001			Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13 13) Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.		
07 52 13 13-0002			Torch-Applied, APP Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 13-0001)		
07 52 13 13-0003	SQ		80 Mil, APP Modified Bitumen Base Sheet, Torch-Applied .....66.18 For Up To 10, Add .....9.15 For >10 To 25, Add .....7.20		
07 52 13 13-0004	SQ		90 Mil, APP Modified Bitumen Base Or Ply Sheet, Torch-Applied .....84.82 For Up To 10, Add .....10.08 For >10 To 25, Add .....8.13		
07 52 13 13-0005	SQ		150 Mil, APP Modified Bitumen Ply Sheet, Torch-Applied .....93.57 For Up To 10, Add .....10.52 For >10 To 25, Add .....8.57		
07 52 13 13-0006	SQ		160 Mil, APP Modified Bitumen Ply Sheet, Torch-Applied .....98.34 For Up To 10, Add .....10.76 For >10 To 25, Add .....8.81		
07 52 13 13-0007	SQ		180 Mil, APP Modified Bitumen Ply Sheet, Torch-Applied .....137.05 For Up To 10, Add .....12.69 For >10 To 25, Add .....10.74		
07 52 13 13-0008	SQ		150 Mil, Smooth Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....94.75 For Up To 10, Add .....10.93 For >10 To 25, Add .....8.86		
07 52 13 13-0009	SQ		160 Mil, Smooth Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....100.71 For Up To 10, Add .....11.22 For >10 To 25, Add .....9.16		
07 52 13 13-0010	SQ		180 Mil, Smooth Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....138.23 For Up To 10, Add .....13.10 For >10 To 25, Add .....11.04		
07 52 13 13-0011	SQ		160 Mil, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....98.50 For Up To 10, Add .....11.11 For >10 To 25, Add .....9.05 For Factory Applied White Reflective Surfacing, Add .....52.56		
07 52 13 13-0012	SQ		170 Mil, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....104.29 For Up To 10, Add .....11.40 For >10 To 25, Add .....9.34 For Factory Applied White Reflective Surfacing, Add .....52.56		
07 52 13 13-0013	SQ		160 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....118.48 For Up To 10, Add .....12.11 For >10 To 25, Add .....10.05 For Factory Applied White Reflective Surfacing, Add .....52.56		
07 52 13 13-0014	SQ		170 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....120.21 For Up To 10, Add .....12.20 For >10 To 25, Add .....10.14 For Factory Applied White Reflective Surfacing, Add .....52.56		
07 52 13 13-0015	SQ		180 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied .....168.70 For Up To 10, Add .....14.62 For >10 To 25, Add .....12.56 For Factory Applied White Reflective Surfacing, Add .....52.56		
07 52 13 13-0016			Torch-Applied, APP Modified Bitumen Roofing Flashing (07 52 13 13-0001)		
07 52 13 13-0017	SF		150 Mil, Smooth Surfaced, APP Modified Bitumen Flashing, Torch-Applied .....1.92		
07 52 13 13-0018	SF		160 Mil, Smooth Surfaced, APP Modified Bitumen Flashing, Torch-Applied .....1.98		
07 52 13 13-0019	SF		180 Mil, Smooth Surfaced, APP Modified Bitumen Flashing, Torch-Applied .....2.35		
07 52 13 13-0020	SF		170 Mil, Granule Surfaced, APP Modified Bitumen Flashing, Torch-Applied .....2.02 For Factory Applied White Reflective Surfacing, Add .....0.53		
07 52 13 13-0021	SF		170 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Flashing, Torch-Applied .....2.17 For Factory Applied White Reflective Surfacing, Add .....0.53		
07 52 13 13-0022	SF		180 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Flashing, Torch-Applied .....2.66 For Factory Applied White Reflective Surfacing, Add .....0.53		
07 52 13 14			Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 14-0001			Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13 14) Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 13 14-0002			Mechanically Fastened, APP Modified Bitumen Roofing Base And Ply Sheets (07 52 13 14-0001)		
07 52 13 14-0003	SQ		90 Mil, APP Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....	96.84	
			For Up To 10, Add	8.73	
			For >10 To 25, Add	7.43	
07 52 16			Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52) Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 16 11			Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 11-0001			Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 11) Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 16 11-0002			Cold Adhesive Applied, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 11-0001)		
07 52 16 11-0003	SQ		50 Mil, SBS Modified Bitumen Base Sheet, Cold Adhesive Applied.....	78.34	
			For Up To 10, Add	11.70	
			For >10 To 25, Add	9.11	
07 52 16 11-0004	SQ		80 Mil, SBS Modified Bitumen Base Sheet, Cold Adhesive Applied.....	99.03	
			For Up To 10, Add	12.74	
			For >10 To 25, Add	10.14	
07 52 16 11-0005	SQ		90 Mil, SBS Modified Bitumen Base Sheet, Cold Adhesive Applied.....	101.70	
			For Up To 10, Add	12.87	
			For >10 To 25, Add	10.28	
07 52 16 11-0006	SQ		120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	134.70	
			For Up To 10, Add	14.52	
			For >10 To 25, Add	11.93	
07 52 16 11-0007	SQ		125 Mil, SBS Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	168.10	
			For Up To 10, Add	16.19	
			For >10 To 25, Add	13.60	
07 52 16 11-0008	SQ		140 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	142.89	
			For Up To 10, Add	15.67	
			For >10 To 25, Add	12.83	
07 52 16 11-0009	SQ		150 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	146.48	
			For Up To 10, Add	15.85	
			For >10 To 25, Add	13.01	
07 52 16 11-0010	SQ		125 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	129.66	
			For Up To 10, Add	15.01	
			For >10 To 25, Add	12.17	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0011	SQ		140 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	131.21	
			For Up To 10, Add	15.09	
			For >10 To 25, Add	12.24	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0012	SQ		150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	145.53	
			For Up To 10, Add	15.80	
			For >10 To 25, Add	12.96	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0013	SQ		160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	147.91	
			For Up To 10, Add	15.92	
			For >10 To 25, Add	13.08	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0014	SQ		170 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	168.79	
			For Up To 10, Add	16.97	
			For >10 To 25, Add	14.12	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0015	SQ		180 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	206.82	
			For Up To 10, Add	18.87	
			For >10 To 25, Add	16.03	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0016	SQ		125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	132.25	
			For Up To 10, Add	15.14	
			For >10 To 25, Add	12.30	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0017	SQ		140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	135.99	
			For Up To 10, Add	15.33	
			For >10 To 25, Add	12.48	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0018	SQ		150 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	156.26	
			For Up To 10, Add	16.34	
			For >10 To 25, Add	13.50	
			For Factory Applied White Reflective Surfacing, Add	52.56	



Thermal And Moisture Protection			07
Membrane Roofing			07 50
Modified Bituminous Membrane Roofing			07 52

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0019	SQ		160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	156.74	
			For Up To 10, Add	16.36	
			For >10 To 25, Add	13.52	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0020	SQ		170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	165.81	
			For Up To 10, Add	16.82	
			For >10 To 25, Add	13.97	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 11-0021			Cold Adhesive Applied, SBS Modified Bitumen Roofing Flashing (07 52 16 11-0001)		
07 52 16 11-0022	SF		150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.78	
07 52 16 11-0023	SF		125 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.61	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0024	SF		140 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.63	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0025	SF		160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.80	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0026	SF		170 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	4.00	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0027	SF		180 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	4.38	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0028	SF		125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.64	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0029	SF		140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.68	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0030	SF		160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.88	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0031	SF		170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	3.97	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 11-0032	SF		145 Mil, Aluminum Foil Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	4.72	
07 52 16 11-0033	SF		160 Mil, Copper Foil Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied	7.40	
07 52 16 12			Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 12-0001			Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 12)		
			Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.		
07 52 16 12-0002			Hot-Mopped, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 12-0001)		
07 52 16 12-0003	SQ		50 Mil, SBS Modified Bitumen Base Sheet, Hot-Mopped	66.32	
			For Up To 10, Add	11.10	
			For >10 To 25, Add	8.51	
07 52 16 12-0004	SQ		80 Mil, SBS Modified Bitumen Base Sheet, Hot-Mopped	87.01	
			For Up To 10, Add	12.14	
			For >10 To 25, Add	9.54	
07 52 16 12-0005	SQ		90 Mil, SBS Modified Bitumen Base Sheet, Hot-Mopped	89.68	
			For Up To 10, Add	12.27	
			For >10 To 25, Add	9.67	
07 52 16 12-0006	SQ		120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Hot-Mopped	122.68	
			For Up To 10, Add	13.92	
			For >10 To 25, Add	11.32	
07 52 16 12-0007	SQ		125 Mil, SBS Modified Bitumen Ply Sheet, Hot-Mopped	156.08	
			For Up To 10, Add	15.59	
			For >10 To 25, Add	12.99	
07 52 16 12-0008	SQ		140 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	130.92	
			For Up To 10, Add	15.07	
			For >10 To 25, Add	12.23	
07 52 16 12-0009	SQ		150 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	134.52	
			For Up To 10, Add	15.25	
			For >10 To 25, Add	12.41	
07 52 16 12-0010	SQ		125 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	117.70	
			For Up To 10, Add	14.41	
			For >10 To 25, Add	11.57	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0011	SQ		140 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	119.25	
			For Up To 10, Add	14.49	
			For >10 To 25, Add	11.65	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0012	SQ		150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	133.56	
			For Up To 10, Add	15.20	
			For >10 To 25, Add	12.36	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0013	SQ		160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	135.95	
			For Up To 10, Add	15.32	
			For >10 To 25, Add	12.48	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0014	SQ		170 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	156.82	
			For Up To 10, Add	16.37	
			For >10 To 25, Add	13.53	
			For Factory Applied White Reflective Surfacing, Add	52.56	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0015	SQ	180 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	194.85	
		For Up To 10, Add	18.27	
		For >10 To 25, Add	15.43	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0016	SQ	125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	120.28	
		For Up To 10, Add	14.54	
		For >10 To 25, Add	11.70	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0017	SQ	140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	124.02	
		For Up To 10, Add	14.73	
		For >10 To 25, Add	11.89	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0018	SQ	150 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	144.30	
		For Up To 10, Add	15.74	
		For >10 To 25, Add	12.90	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0019	SQ	160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	144.77	
		For Up To 10, Add	15.76	
		For >10 To 25, Add	12.92	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0020	SQ	170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	153.84	
		For Up To 10, Add	16.22	
		For >10 To 25, Add	13.38	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 12-0021		Hot-Mopped, SBS Modified Bitumen Roofing Flashing (07 52 16 12-0001)		
07 52 16 12-0022	SF	150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.69	
07 52 16 12-0023	SF	125 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.52	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0024	SF	140 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.54	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0025	SF	150 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.68	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0026	SF	160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.70	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0027	SF	170 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.91	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0028	SF	180 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	3.29	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0029	SF	125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.55	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0030	SF	140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.58	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0031	SF	160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.75	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0032	SF	170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.88	
		For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 12-0033	SF	145 Mil, Aluminum Foil Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	3.62	
07 52 16 12-0034	SF	160 Mil, Copper Foil Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	6.31	
07 52 16 13		Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 13-0001		Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 13)		
		Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.		
07 52 16 13-0002		Torch-Applied, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 13-0001)		
07 52 16 13-0003	SQ	120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Torch-Applied	110.27	
		For Up To 10, Add	11.35	
		For >10 To 25, Add	9.41	
07 52 16 13-0004	SQ	150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	99.88	
		For Up To 10, Add	11.18	
		For >10 To 25, Add	9.12	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 13-0005	SQ	160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	113.47	
		For Up To 10, Add	11.86	
		For >10 To 25, Add	9.80	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 13-0006	SQ	180 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	175.12	
		For Up To 10, Add	14.95	
		For >10 To 25, Add	12.88	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 13-0007	SQ	150 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	103.76	
		For Up To 10, Add	11.38	
		For >10 To 25, Add	9.31	
		For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 13-0008	SQ	160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	119.80	
		For Up To 10, Add	12.18	
		For >10 To 25, Add	10.12	
		For Factory Applied White Reflective Surfacing, Add	52.56	



Thermal And Moisture Protection			07
Membrane Roofing			07 50
Modified Bituminous Membrane Roofing			07 52

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 13-0009	SQ		165 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied.....	124.90	
			For Up To 10, Add	12.43	
			For >10 To 25, Add	10.37	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 13-0010	SQ		180 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied.....	162.32	
			For Up To 10, Add	14.31	
			For >10 To 25, Add	12.24	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 13-0011			Torch-Applied, SBS Modified Bitumen Roofing Flashing (07 52 16 13-0001)		
07 52 16 13-0012	SF		150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.12	
07 52 16 13-0013	SF		150 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.11	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 13-0014	SF		180 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.72	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 13-0015	SF		160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.18	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 13-0016	SF		165 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.22	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 13-0017	SF		180 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.60	
			For Factory Applied White Reflective Surfacing, Add	0.53	
07 52 16 13-0018	SF		150 Mil, Aluminum Foil Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	2.68	
07 52 16 13-0019	SF		160 Mil, Copper Foil Surfaced, SBS Modified Bitumen Flashing, Torch-Applied.....	5.74	
07 52 16 14			Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 14-0001			Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 14)		
			Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 16 14-0002			Mechanically Fastened, SBS Modified Bitumen Roofing Base And Ply Sheets (07 52 16 14-0001)		
07 52 16 14-0003	SQ		35 Mil, SBS Modified Bitumen Ply Sheet, Mechanically Fastened.....	76.28	
			For Up To 10, Add	7.70	
			For >10 To 25, Add	6.41	
07 52 16 14-0004	SQ		50 Mil, SBS Modified Bitumen Base Sheet, Mechanically Fastened	59.96	
			For Up To 10, Add	6.89	
			For >10 To 25, Add	5.59	
07 52 16 14-0005	SQ		80 Mil, SBS Modified Bitumen Base Sheet, Mechanically Fastened	76.03	
			For Up To 10, Add	7.69	
			For >10 To 25, Add	6.39	
07 52 16 14-0006	SQ		90 Mil, SBS Modified Bitumen Base Sheet, Mechanically Fastened	93.78	
			For Up To 10, Add	8.58	
			For >10 To 25, Add	7.28	
07 52 16 14-0007	SQ		120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Mechanically Fastened	116.32	
			For Up To 10, Add	9.70	
			For >10 To 25, Add	8.41	
07 52 16 14-0008			Mechanically Fastened, SBS Modified Bitumen Roofing Flashing (07 52 16 14-0001)		
07 52 16 14-0009	SF		150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Mechanically Fastened.....	1.73	
07 52 16 14-0010	SF		160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Mechanically Fastened	1.76	
07 52 16 15			Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 15-0001			Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 15)		
			Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane.		
07 52 16 15-0002			Self-Adhering, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 15-0001)		
07 52 16 15-0003	SQ		60 Mil, SBS Modified Bitumen Base Sheet, Self-Adhering	63.36	
			For Up To 10, Add	7.84	
			For >10 To 25, Add	6.28	
07 52 16 15-0004	SQ		70 Mil, SBS Modified Bitumen Base Sheet, Self-Adhering	66.74	
			For Up To 10, Add	8.01	
			For >10 To 25, Add	6.45	
07 52 16 15-0005	SQ		120 Mil, SBS Modified Bitumen Base Sheet, Self-Adhering	108.58	
			For Up To 10, Add	10.45	
			For >10 To 25, Add	8.78	
07 52 16 15-0006	SQ		150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Self-Adhering.....	128.40	
			For Up To 10, Add	11.44	
			For >10 To 25, Add	9.77	
			For Factory Applied White Reflective Surfacing, Add	52.56	
07 52 16 15-0007	SQ		160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Self-Adhering.....	186.85	
			For Up To 10, Add	14.36	
			For >10 To 25, Add	12.69	
			For Factory Applied White Reflective Surfacing, Add	52.56	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 52 16 15-0008 Self-Adhering, SBS Modified Bitumen Roofing Flashing (07 52 16 15-0001)

07 52 16 15-0009	SF	70 Mil, SBS Modified Bitumen Flashing, Self-Adhering	2.10	
07 52 16 15-0010	SF	150 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Self-Adhering	2.30	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	0.53	
07 52 16 15-0011	SF	160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Self-Adhering	2.88	
		<i>For Factory Applied White Reflective Surfacing, Add</i>	0.53	

07 53 Elastomeric Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 53 16 Chlorosulfonate-Polyethylene Roofing (07 53)**07 53 16 00-0001 Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes (07 53 16)**

07 53 16 00-0002	SQ	45 Mil, Single Ply CSPE Roofing Membrane, Fully Adhered	278.02	62.75
		Note: Includes adhesive.		
		<i>For Up To 10, Add</i>	51.27	
		<i>For >10 To 25, Add</i>	38.81	
		<i>For 15 Year Warranty, Add</i>	3.00	
07 53 16 00-0003	SQ	45 Mil, Single Ply CSPE Roofing Membrane, Ballasted	189.75	31.38
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	28.17	
		<i>For >10 To 25, Add</i>	21.94	
		<i>For 15 Year Warranty, Add</i>	3.00	
07 53 16 00-0004	SQ	45 Mil, Single Ply CSPE Roofing Membrane, Mechanically Fastened	213.23	47.06
		Note: Includes fasteners.		
		<i>For Up To 10, Add</i>	38.69	
		<i>For >10 To 25, Add</i>	29.35	
		<i>For 15 Year Warranty, Add</i>	3.00	

07 53 23 Ethylene-Propylene-Diene-Monomer Roofing (07 53)**07 53 23 00-0001 Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes (07 53 23)**

07 53 23 00-0002	SQ	45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	148.06	31.38
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	26.09	
		<i>For >10 To 25, Add</i>	19.86	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For Low Slope Fire Rated, Add</i>	4.22	
		<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.36	
07 53 23 00-0003	SQ	60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	165.42	33.34
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	28.12	
		<i>For >10 To 25, Add</i>	21.51	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For 20 Year Warranty, Add</i>	6.00	
		<i>For 25 Year Warranty, Add</i>	8.00	
		<i>For Low Slope Fire Rated, Add</i>	4.22	
		<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.36	
07 53 23 00-0004	SQ	90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	239.15	35.29
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	32.98	
		<i>For >10 To 25, Add</i>	25.97	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For 20 Year Warranty, Add</i>	6.00	
		<i>For 25 Year Warranty, Add</i>	8.00	
		<i>For Low Slope Fire Rated, Add</i>	4.22	
07 53 23 00-0005	SQ	45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	181.45	47.06
		Note: Includes adhesive and fasteners.		
		<i>For Up To 10, Add</i>	37.10	
		<i>For >10 To 25, Add</i>	27.76	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For Low Slope Fire Rated, Add</i>	4.22	
		<i>For Low VOC Adhesive, Add</i>	18.93	
		<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.36	
		<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	40.30	
		<i>For Integral Polyester Fleece-Backing, Add</i>	58.95	

**Thermal And Moisture Protection 07****Membrane Roofing 07 50****Elastomeric Membrane Roofing 07 53****07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0006	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%) Note: Includes adhesive and fasteners.	198.81	49.03
			For Up To 10, Add	39.13	
			For >10 To 25, Add	29.40	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.22	
			For Low VOC Adhesive, Add	18.93	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.36	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
			For Integral Polyester Fleece-Backing, Add	65.15	
07 53 23 00-0007	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%) Note: Includes adhesive and fasteners.	272.54	50.98
			For Up To 10, Add	43.99	
			For >10 To 25, Add	33.87	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.22	
			For Low VOC Adhesive, Add	18.93	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
			For Integral Polyester Fleece-Backing, Add	71.90	
07 53 23 00-0008	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered..... Note: Includes adhesive and fasteners.	240.04	62.75
			For Up To 10, Add	49.37	
			For >10 To 25, Add	36.91	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	4.22	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.36	
			For Low VOC Adhesive, Add	47.33	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
			For Integral Polyester Fleece-Backing, Add	58.95	
07 53 23 00-0009	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered..... Note: Includes adhesive and fasteners.	257.39	64.72
			For Up To 10, Add	51.40	
			For >10 To 25, Add	38.56	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.22	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.36	
			For Low VOC Adhesive, Add	47.33	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
			For Integral Polyester Fleece-Backing, Add	65.15	
07 53 23 00-0010	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered..... Note: Includes adhesive and fasteners.	331.12	66.67
			For Up To 10, Add	56.26	
			For >10 To 25, Add	43.03	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.22	
			For Low VOC Adhesive, Add	47.33	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
			For Integral Polyester Fleece-Backing, Add	71.90	
07 53 23 00-0011	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	171.43	47.06
			For Up To 10, Add	36.60	
			For >10 To 25, Add	27.26	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	4.22	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.36	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
07 53 23 00-0012	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	188.79	49.03
			For Up To 10, Add	38.63	
			For >10 To 25, Add	28.90	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.22	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.36	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	
07 53 23 00-0013	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	262.52	50.98
			For Up To 10, Add	43.49	
			For >10 To 25, Add	33.37	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.22	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	40.30	

07 53 23 00-0014 Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane
Accessories (07 53 23)

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0015	SQ		Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat	40.40	
			For Up To 10, Add	6.69	
			For >10 To 25, Add	5.13	
07 53 23 00-0016	SQ		Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat	41.63	
			Note: 55% solids by volume.		
			For Up To 10, Add	6.75	
			For >10 To 25, Add	5.20	
07 53 23 00-0017	EA		Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	26.90	7.46
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0018	EA		>4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	36.65	7.46
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0019	EA		>8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	64.79	7.46
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0020	EA		6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket.....	84.96	8.23
			Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 53 23 00-0021	LF		30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad.....	20.22	4.55
			Note: Includes factory installed peel and stick adhesive tape.		
07 53 23 00-0022	SF		Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing.....	4.00	1.18
07 53 23 00-0023	SF		Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing	5.16	1.76

07 53 29 Polyisobutylene Roofing (07 53)**07 53 29 00-0001 Polyisobutylene (PIB) Roofing Membranes** (07 53 29)

Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.

07 53 29 00-0002	SQ		100 Mil, Single Ply PIB Roofing Membrane, Ballasted.....	281.03	35.29
			Note: Includes ballast.		
			For Up To 10, Add	35.07	
			For >10 To 25, Add	28.07	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
07 53 29 00-0003	SQ		100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%).....	320.53	50.98
			Note: Includes adhesive.		
			For Up To 10, Add	46.39	
			For >10 To 25, Add	36.27	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
07 53 29 00-0004	SQ		100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered	388.30	66.67
			Note: Includes adhesive.		
			For Up To 10, Add	59.12	
			For >10 To 25, Add	45.89	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	

07 54 Thermoplastic Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 54 19 Polyvinyl-Chloride Roofing (07 54)**07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes** (07 54 19)

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

07 54 19 00-0002	SQ		48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	182.22	31.38
			Note: Includes ballast.		
			For Up To 10, Add	27.80	
			For >10 To 25, Add	21.57	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0003	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	207.42	33.34
			Note: Includes ballast.		
			For Up To 10, Add	30.22	
			For >10 To 25, Add	23.61	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0004	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	236.59	34.32
			Note: Includes ballast.		
			For Up To 10, Add	32.27	
			For >10 To 25, Add	25.45	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	

**Thermal And Moisture Protection 07****Membrane Roofing 07 50****Thermoplastic Membrane Roofing 07 54****07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0005	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	250.37	35.29
			Note: Includes ballast.		
			For Up To 10, Add	33.54	
			For >10 To 25, Add	26.53	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0006	SQ		48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	257.01	62.75
			Note: Includes adhesive.		
			For Up To 10, Add	50.22	
			For >10 To 25, Add	37.76	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.61	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0007	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	282.22	64.72
			Note: Includes adhesive.		
			For Up To 10, Add	52.65	
			For >10 To 25, Add	39.80	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.61	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0008	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	311.38	65.69
			Note: Includes adhesive.		
			For Up To 10, Add	54.69	
			For >10 To 25, Add	41.65	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.61	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0009	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	325.17	66.67
			Note: Includes adhesive.		
			For Up To 10, Add	55.96	
			For >10 To 25, Add	42.73	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.61	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0010	SQ		48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	201.58	47.06
			Note: Includes fasteners.		
			For Up To 10, Add	38.11	
			For >10 To 25, Add	28.76	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0011	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	226.79	49.03
			Note: Includes fasteners.		
			For Up To 10, Add	40.53	
			For >10 To 25, Add	30.80	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0012	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	255.95	50.01
			Note: Includes fasteners.		
			For Up To 10, Add	42.58	
			For >10 To 25, Add	32.65	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0013	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	269.74	50.98
			Note: Includes fasteners.		
			For Up To 10, Add	43.85	
			For >10 To 25, Add	33.73	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.70	
07 54 19 00-0014			Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories (07 54 19)		
07 54 19 00-0015	SQ		Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat	40.40	
			For Up To 10, Add	6.69	
			For >10 To 25, Add	5.13	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0016	SQ		Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat.....	41.63	
			Note: 55% solids by volume.		
			For Up To 10, Add	6.75	
			For >10 To 25, Add	5.20	
07 54 19 00-0017	EA		Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	41.29	6.67
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0018	EA		>3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	56.87	7.46
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0019	EA		>7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	71.99	8.23
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0020	EA		6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket.....	90.30	8.23
			Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 19 00-0021	LF		36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad.....	17.70	4.55
07 54 19 00-0022	SF		Polyvinyl Chloride (PVC) Membrane Base Flashing.....	4.64	1.18
07 54 19 00-0023	SF		Polyvinyl Chloride (PVC) Membrane Curb Flashing.....	5.80	1.76
07 54 19 00-0024	SF		Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing.....	6.05	1.18
			Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.		

07 54 23 Thermoplastic-Polyolefin Roofing (07 54)**07 54 23 00-0001 Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)**

Note: Includes polyester fabric reinforcement and hot air welding of seams.

07 54 23 00-0002	SQ		45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	232.80	62.75
			Note: Includes adhesive.		
			For Up To 10, Add	49.01	
			For >10 To 25, Add	36.55	
			For 15 Year Warranty, Add	3.00	
			For Low VOC Adhesive, Add	47.33	
			For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0003	SQ		60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	247.32	64.72
			Note: Includes adhesive.		
			For Up To 10, Add	50.90	
			For >10 To 25, Add	38.06	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low VOC Adhesive, Add	47.33	
			For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0004	SQ		80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	305.69	66.67
			Note: Includes adhesive.		
			For Up To 10, Add	54.99	
			For >10 To 25, Add	41.75	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low VOC Adhesive, Add	47.33	
			For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0005	SQ		45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened.....	160.20	47.06
			Note: Includes fasteners.		
			For Up To 10, Add	36.04	
			For >10 To 25, Add	26.69	
			For 15 Year Warranty, Add	3.00	
			For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0006	SQ		60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened.....	174.71	49.03
			Note: Includes fasteners.		
			For Up To 10, Add	37.93	
			For >10 To 25, Add	28.20	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Integral Polyester Fleece-Backing, Add	33.25	
07 54 23 00-0007	SQ		80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened.....	233.08	50.98
			Note: Includes fasteners.		
			For Up To 10, Add	42.02	
			For >10 To 25, Add	31.90	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Integral Polyester Fleece-Backing, Add	33.25	

07 54 23 00-0008 Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)

07 54 23 00-0009	SQ		Acrylic, TPO Roofing Primer, Price Per Coat.....	47.19	
			For Up To 10, Add	7.03	
			For >10 To 25, Add	5.47	
07 54 23 00-0010	SQ		Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat.....	41.63	
			Note: 55% solids by volume.		
			For Up To 10, Add	6.75	
			For >10 To 25, Add	5.20	
			For Tan Or Gray Color, Add	1.30	
07 54 23 00-0011	EA		Up To 3" Pipe Diameter, Prefabricated TPO Pipe Cone/Boot.....	36.10	6.67
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0012	EA		>3" To 8" Pipe Diameter, Prefabricated TPO Pipe Cone/Boot.....	39.12	7.46
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		



Thermal And Moisture Protection			07
Membrane Roofing			07 50
Thermoplastic Membrane Roofing			07 54

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0013	EA		6" Diameter, Prefabricated TPO Penetration Pocket..... Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.	68.69	8.23
07 54 23 00-0014	LF		30" Wide, TPO Walkway Protection Pad	17.51	4.55
07 54 23 00-0015	SF		TPO Membrane Base Flashing.....	4.81	1.18
07 54 23 00-0016	SF		TPO Curb Flashing..... For Tan Or Gray Color, Add	4.57 0.05	1.18
07 54 23 00-0017	SF		TPO Clad Edge Metal Or Base Flashing	6.77	1.18
Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.					

07 56 Fluid-Applied Roofing (07 50)

07 56 00 00-0001 Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)

07 56 00 00-0002	SQ	60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing	807.47	102.21
For Each Additional Coat, Add			121.12	

07 56 00 00-0003 Vinyl Spray Liquid Roofing (07 56)

07 56 00 00-0004	SQ	2 Mil Vinyl Liquid Roofing.....	737.68	107.71
07 56 00 00-0005	SQ	4 Mil Vinyl Liquid Roofing.....	825.27	120.29

07 56 00 00-0006 Silicone Elastomeric Liquid Roofing (07 56)

07 56 00 00-0007	SQ	65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....	247.18	61.72
07 56 00 00-0008	SQ	65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat.....	307.00	61.72
07 56 00 00-0009	SQ	65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....	351.98	61.72

07 56 00 00-0010 Rubberized Acrylic Roof Coating, Sprayed On (07 56)

Note: As manufactured by Tru-Co, Inc.

07 56 00 00-0011 Rubberized Acrylic Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)

07 56 00 00-0012	SQ	Elastomeric Installation Over Urethane Foam	567.75	
07 56 00 00-0013	SQ	Elastomeric Installation Over Decks	582.98	
07 56 00 00-0014	SQ	Elastomeric Installation Over Exterior, Waterproofing	237.80	
07 56 00 00-0015	SQ	Installation Over Existing Tar (Asphalt) And Gravel Roof	735.95	
07 56 00 00-0016	SQ	Installation Over New Construction, Waterproofing	417.97	
07 56 00 00-0017	SQ	Installation Over Mobile Home	274.60	
07 56 00 00-0018	SQ	Installation Over Corrugated Metal Roofs.....	323.38	
07 56 00 00-0019	SQ	Installation Over Granulate Mineral Surface, BUR Cap Sheet (Semi-Smooth) Surface	616.53	
07 56 00 00-0020	SQ	4" Acrylic Gel With Fabric (Apply At Edges)	2.16	
07 56 00 00-0021	SQ	6" Acrylic Gel With Fabric (Apply At Edges)	3.03	

07 56 00 00-0022 Polyurethane Roof Coating, Sprayed On Assemblies (07 56)

Note: Includes powerwash, primer, base coat, polyester reinforcement, top coat and finish coat.

07 56 00 00-0023	SF	Up To 50 SF White (High-Albedo) Polyurethane Coating.....	9.20	
07 56 00 00-0024	SF	>50 To 100 SF White (High-Albedo) Polyurethane Coating	8.89	
07 56 00 00-0025	SF	>100 To 500 SF White (High-Albedo) Polyurethane Coating	8.58	
07 56 00 00-0026	SEA	>500 To 1,000 SF White (High-Albedo) Polyurethane Coating	8.19	

07 56 00 00-0027 Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)

07 56 00 00-0028	SQ	90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane	785.96	61.72
Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 60 mil second coat.				

07 56 00 00-0029 Urethane Liquid Roofing Membrane (07 56)

Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems.

07 56 00 00-0030	SQ	Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	43.68	
07 56 00 00-0031	LF	Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	3.44	
07 56 00 00-0032	SQ	White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	202.50	
07 56 00 00-0033	SQ	White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System (0.25 GAL/SQ).....	43.80	
07 56 00 00-0034	SQ	White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	239.70	
07 56 00 00-0035	SQ	White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply (0.5 GAL/SQ).....	67.22	
07 56 00 00-0036	SQ	White-Knight® WC Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	252.50	
07 56 00 00-0037	SQ	White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ).....	245.30	

07 57 Coated Foamed Roofing (07 50)

07 57 13 Sprayed Polyurethane Foam Roofing (07 57)

Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 57 Coated Foamed Roofing**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

07 57 13 00-0001		Sprayed Polyurethane Foam Roofing Systems (07 57 13)		
07 57 13 00-0002		Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)		
07 57 13 00-0003		Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
		Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0004	SQ	1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	241.20	35.64
07 57 13 00-0005	SQ	2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	338.11	40.73
07 57 13 00-0006	SQ	3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	444.69	45.82
07 57 13 00-0007	SQ	4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	531.94	50.92
07 57 13 00-0008	SQ	5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	628.85	56.01
07 57 13 00-0009	SQ	6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	725.76	61.10
07 57 13 00-0010		Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
		Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0011	SQ	1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	248.71	35.64
07 57 13 00-0012	SQ	2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	345.63	40.73
07 57 13 00-0013	SQ	3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	442.54	45.82
07 57 13 00-0014	SQ	4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	539.46	50.92
07 57 13 00-0015	SQ	5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	636.37	56.01
07 57 13 00-0016	SQ	6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	733.28	61.10
07 57 13 00-0017		Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
		Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0018	SQ	1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	266.98	35.64
07 57 13 00-0019	SQ	2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	360.67	40.73
07 57 13 00-0020	SQ	3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	457.58	45.82
07 57 13 00-0021	SQ	4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	594.68	50.92
07 57 13 00-0022	SQ	5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	699.75	56.01
07 57 13 00-0023	SQ	6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	804.82	61.10
07 57 13 00-0024		Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating (07 57 13 00-0001)		
07 57 13 00-0025		Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating (07 57 13 00-0024)		
		Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0026	SQ	1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	272.35	35.64
07 57 13 00-0027	SQ	2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	377.43	40.73
07 57 13 00-0028	SQ	3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	482.50	45.82
07 57 13 00-0029	SQ	4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	587.59	50.92
07 57 13 00-0030	SQ	5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	692.66	56.01
07 57 13 00-0031	SQ	6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	797.73	61.10

**Thermal And Moisture Protection 07****Membrane Roofing 07 50****Coated Foamed Roofing 07 57****07**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0032			Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating (07 57 13 00-0024) Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0033	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	282.98	35.64
07 57 13 00-0034	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	388.06	40.73
07 57 13 00-0035	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	493.14	45.82
07 57 13 00-0036	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	598.22	50.92
07 57 13 00-0037	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	703.29	56.01
07 57 13 00-0038	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	808.37	61.10
07 57 13 00-0039			Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating (07 57 13 00-0024) Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0040	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	291.25	35.64
07 57 13 00-0041	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	396.34	40.73
07 57 13 00-0042	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	501.41	45.82
07 57 13 00-0043	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	606.49	50.92
07 57 13 00-0044	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	711.57	56.01
07 57 13 00-0045	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	816.64	61.10
07 58			Roll Roofing (07 50)		
07 58 00 00-0001			Prepared Roll Roofing (07 58) Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.		
07 58 00 00-0002	SQ		Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing	121.45	22.91
07 59			Membrane Roofing Accessories (07 50)		
07 59 00 00-0001			Membrane Roofing Accessories (07 59)		
07 59 00 00-0002	LF		Roofing Membrane Termination Bar	3.13	1.10
			Note: Includes fasteners and caulking.		
07 60			Flashing And Sheet Metal (07)		
			Note: Includes placement of materials on roof up to 2-1/2 stories.		
07 62			Sheet Metal Flashing And Trim (07 60)		
07 62 00 00-0001			Lead Flashing And Trim (07 62)		
07 62 00 00-0002	SF		2.5 LB/SF Sheet Lead Flashing	18.85	5.18
07 62 00 00-0003	SF		4 LB/SF Sheet Lead Flashing	23.66	5.18
07 62 00 00-0004			Copper Flashing And Trim (07 62)		
07 62 00 00-0005			Copper Flashing And Trim (07 62 00 00-0004)		
07 62 00 00-0006	SF		16 Ounce, 0.021" Thick, Copper Flashing And Trim	17.97	5.06
			For >500 To 2,000, Deduct	-2.54	
			For >2,000, Deduct	-2.93	
			For Copper Valley For Steep Slope Roofing, Add	2.00	
			For Wrap Around Window Panning, Add	10.01	
07 62 00 00-0007	SF		20 Ounce, 0.027" Thick, Copper Flashing And Trim	18.63	5.18
			For >500 To 2,000, Deduct	-2.63	
			For >2,000, Deduct	-3.04	
			For Copper Valley For Steep Slope Roofing, Add	2.09	
			For Wrap Around Window Panning, Add	10.47	
07 62 00 00-0008	SF		24 Ounce, 0.032" Thick, Copper Flashing And Trim	20.75	5.53
			For >500 To 2,000, Deduct	-2.92	
			For >2,000, Deduct	-3.41	
			For Copper Valley For Steep Slope Roofing, Add	2.19	
			For Wrap Around Window Panning, Add	10.96	

07 Thermal And Moisture Protection**07 60 Flashing And Sheet Metal****07 62 Sheet Metal Flashing And Trim**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 00 00-0009 SF 32 Ounce, 0.043" Thick, Copper Flashing And Trim..... For >500 To 2,000, Deduct For >2,000, Deduct For Copper Valley For Steep Slope Roofing, Add For Wrap Around Window Panning, Add	24.56 -3.42 -4.08 2.30 11.51	5.76
07 62 00 00-0010 Stainless Steel Flashing And Trim (07 62)		
07 62 00 00-0011 Stainless Steel Flashing And Trim (07 62 00 00-0010)		
07 62 00 00-0012 SF 32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim..... For Wrap Around Window Panning, Add For Mechanically Keyed Flashing, Add	9.57 7.10 0.99	2.76
07 62 00 00-0013 SF 28 Gauge, 0.015" Thick, Stainless Steel Flashing And Trim..... For Wrap Around Window Panning, Add For Mechanically Keyed Flashing, Add	10.80 7.10 1.48	3.23
07 62 00 00-0014 SF 26 Gauge, 0.018" Thick, Stainless Steel Flashing And Trim..... For Wrap Around Window Panning, Add For Mechanically Keyed Flashing, Add	12.20 7.58 1.85	3.80
07 62 00 00-0015 SF 24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim..... For Wrap Around Window Panning, Add For Mechanically Keyed Flashing, Add	14.16 8.00 2.46	4.03
07 62 00 00-0016 Stainless Steel Drip Edge (07 62 00 00-0010) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 00 00-0017 26 Gauge, Stainless Steel Drip Edge (07 62 00 00-0016)		
07 62 00 00-0018 LF Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge.....	4.45	0.76
07 62 00 00-0019 LF >5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....	5.42	0.76
07 62 00 00-0020 LF >7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge.....	6.15	0.76
07 62 00 00-0021 LF >9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....	7.36	0.76
07 62 00 00-0022 LF >12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge.....	9.31	0.76
07 62 00 00-0023 24 Gauge, Stainless Steel Drip Edge (07 62 00 00-0016)		
07 62 00 00-0024 LF Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....	5.36	0.76
07 62 00 00-0025 LF >5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge.....	6.64	0.76
07 62 00 00-0026 LF >7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge.....	7.61	0.76
07 62 00 00-0027 LF >9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge.....	9.20	0.76
07 62 00 00-0028 LF >12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge.....	11.75	0.76
07 62 00 00-0029 22 Gauge, Stainless Steel Drip Edge (07 62 00 00-0016)		
07 62 00 00-0030 LF Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge.....	6.44	0.76
07 62 00 00-0031 LF >5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge.....	8.08	0.76
07 62 00 00-0032 LF >7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge.....	9.31	0.76
07 62 00 00-0033 LF >9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge.....	11.36	0.76
07 62 00 00-0034 LF >12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge.....	14.63	0.76
07 62 00 00-0035 Aluminum Flashing And Trim (07 62)		
07 62 00 00-0036 Aluminum Flashing And Trim (07 62 00 00-0035)		
07 62 00 00-0037 SF 0.013" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	10.05 0.21 7.94	3.57
07 62 00 00-0038 SF 0.016" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	10.51 0.26 7.94	3.57
07 62 00 00-0039 SF 0.019" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	10.87 0.29 7.94	3.57
07 62 00 00-0040 SF 0.024" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	11.40 0.35 7.94	3.57
07 62 00 00-0041 SF 0.032" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	12.14 0.42 7.94	3.57
07 62 00 00-0042 SF 0.040" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	12.59 0.47 7.94	3.57
07 62 00 00-0043 SF 0.050" Thick, Mill Finish, Aluminum Flashing And Trim..... For Baked Aluminum Colors, Add For Wrap Around Window Panning, Add	12.96 0.50 7.94	3.57
07 62 00 00-0044 Aluminum Drip Edge (07 62 00 00-0035) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 00 00-0045 KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0044)		
07 62 00 00-0046 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0047 LF Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	3.27	0.76



Thermal And Moisture Protection			07
Flashing And Sheet Metal			07 60
Sheet Metal Flashing And Trim			07 62

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
07 62 00 00-0048	LF	>5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	3.90	0.76
07 62 00 00-0049	LF	>7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.27	0.76
07 62 00 00-0050	LF	>9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.01	0.76
07 62 00 00-0051	LF	>12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.33	0.76
07 62 00 00-0052		0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0053	LF	Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	3.48	0.76
07 62 00 00-0054	LF	>5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.13	0.76
07 62 00 00-0055	LF	>7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.62	0.76
07 62 00 00-0056	LF	>9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.43	0.76
07 62 00 00-0057	LF	>12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.73	0.76
07 62 00 00-0058		0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0059	LF	Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	3.69	0.76
07 62 00 00-0060	LF	>5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.41	0.76
07 62 00 00-0061	LF	>7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.95	0.76
07 62 00 00-0062	LF	>9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.85	0.76
07 62 00 00-0063	LF	>12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	7.28	0.76
07 62 00 00-0064		0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0065	LF	Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.11	0.76
07 62 00 00-0066	LF	>5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.96	0.76
07 62 00 00-0067	LF	>7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.61	0.76
07 62 00 00-0068	LF	>9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.68	0.76
07 62 00 00-0069	LF	>12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	8.40	0.76
07 62 00 00-0070		0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0071	LF	Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.24	0.76
07 62 00 00-0072	LF	>5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.17	0.76
07 62 00 00-0073	LF	>7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.83	0.76
07 62 00 00-0074	LF	>9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.96	0.76
07 62 00 00-0075	LF	>12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	8.77	0.76
07 62 00 00-0076		0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0077	LF	Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	4.73	0.76
07 62 00 00-0078	LF	>5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.80	0.76
07 62 00 00-0079	LF	>7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.60	0.76
07 62 00 00-0080	LF	>9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	7.93	0.76
07 62 00 00-0081	LF	>12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	10.07	0.76
07 62 00 00-0082		0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0083	LF	Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	5.43	0.76
07 62 00 00-0084	LF	>5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.73	0.76
07 62 00 00-0085	LF	>7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	7.70	0.76
07 62 00 00-0086	LF	>9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	9.33	0.76
07 62 00 00-0087	LF	>12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	11.92	0.76
07 62 00 00-0088		0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 00 00-0045)		
07 62 00 00-0089	LF	Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	6.26	0.76
07 62 00 00-0090	LF	>5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	7.84	0.76
07 62 00 00-0091	LF	>7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	9.02	0.76
07 62 00 00-0092	LF	>9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	11.00	0.76
07 62 00 00-0093	LF	>12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.15	0.76
07 62 00 00-0094		Mill Finish, Aluminum Drip Edge (07 62 00 00-0044)		
07 62 00 00-0095		0.016" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0096	LF	Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	2.73	0.76
07 62 00 00-0097	LF	>5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	3.16	0.76
07 62 00 00-0098	LF	>7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	3.42	0.76
07 62 00 00-0099	LF	>9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	3.93	0.76
07 62 00 00-0100	LF	>12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	4.84	0.76
07 62 00 00-0101		0.019" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0102	LF	Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	2.87	0.76
07 62 00 00-0103	LF	>5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	3.32	0.76
07 62 00 00-0104	LF	>7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	3.66	0.76
07 62 00 00-0105	LF	>9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	4.22	0.76
07 62 00 00-0106	LF	>12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	5.11	0.76

07 Thermal And Moisture Protection**07 60 Flashing And Sheet Metal****07 62 Sheet Metal Flashing And Trim**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 00 00-0107		0.025" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0108	LF	Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	3.02	0.76
07 62 00 00-0109	LF	>5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	3.51	0.76
07 62 00 00-0110	LF	>7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	3.89	0.76
07 62 00 00-0111	LF	>9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	4.51	0.76
07 62 00 00-0112	LF	>12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	5.50	0.76
07 62 00 00-0113		0.032" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0114	LF	Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	3.31	0.76
07 62 00 00-0115	LF	>5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	3.90	0.76
07 62 00 00-0116	LF	>7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	4.35	0.76
07 62 00 00-0117	LF	>9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	5.08	0.76
07 62 00 00-0118	LF	>12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	6.27	0.76
07 62 00 00-0119		0.040" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0120	LF	Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	3.40	0.76
07 62 00 00-0121	LF	>5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	4.04	0.76
07 62 00 00-0122	LF	>7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	4.50	0.76
07 62 00 00-0123	LF	>9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	5.27	0.76
07 62 00 00-0124	LF	>12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	6.52	0.76
07 62 00 00-0125		0.050" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0126	LF	Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	3.74	0.76
07 62 00 00-0127	LF	>5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	4.47	0.76
07 62 00 00-0128	LF	>7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	5.03	0.76
07 62 00 00-0129	LF	>9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	5.95	0.76
07 62 00 00-0130	LF	>12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	7.42	0.76
07 62 00 00-0131		0.063" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0132	LF	Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	4.22	0.76
07 62 00 00-0133	LF	>5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	5.11	0.76
07 62 00 00-0134	LF	>7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	5.79	0.76
07 62 00 00-0135	LF	>9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	6.91	0.76
07 62 00 00-0136	LF	>12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	8.70	0.76
07 62 00 00-0137		0.080" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)		
07 62 00 00-0138	LF	Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	4.79	0.76
07 62 00 00-0139	LF	>5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	5.88	0.76
07 62 00 00-0140	LF	>7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	6.70	0.76
07 62 00 00-0141	LF	>9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	8.06	0.76
07 62 00 00-0142	LF	>12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	10.23	0.76
07 62 00 00-0143		Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0044)		
07 62 00 00-0144		0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0145	LF	Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	3.37	0.76
07 62 00 00-0146	LF	>5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.04	0.76
07 62 00 00-0147	LF	>7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.43	0.76
07 62 00 00-0148	LF	>9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.22	0.76
07 62 00 00-0149	LF	>12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.62	0.76
07 62 00 00-0150		0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0151	LF	Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	3.60	0.76
07 62 00 00-0152	LF	>5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.28	0.76
07 62 00 00-0153	LF	>7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.80	0.76
07 62 00 00-0154	LF	>9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.66	0.76
07 62 00 00-0155	LF	>12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.04	0.76
07 62 00 00-0156		0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0157	LF	Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	3.82	0.76
07 62 00 00-0158	LF	>5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.58	0.76
07 62 00 00-0159	LF	>7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.16	0.76
07 62 00 00-0160	LF	>9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.10	0.76
07 62 00 00-0161	LF	>12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.63	0.76
07 62 00 00-0162		0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0163	LF	Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.26	0.76
07 62 00 00-0164	LF	>5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.17	0.76
07 62 00 00-0165	LF	>7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.86	0.76
07 62 00 00-0166	LF	>9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.99	0.76



Thermal And Moisture Protection			07
Flashing And Sheet Metal			07 60
Sheet Metal Flashing And Trim			07 62

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 00 00-0167	LF	>12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.81	0.76
07 62 00 00-0168		0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0169	LF	Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.41	0.76
07 62 00 00-0170	LF	>5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.39	0.76
07 62 00 00-0171	LF	>7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.09	0.76
07 62 00 00-0172	LF	>9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.28	0.76
07 62 00 00-0173	LF	>12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	9.20	0.76
07 62 00 00-0174		0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0175	LF	Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.92	0.76
07 62 00 00-0176	LF	>5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.05	0.76
07 62 00 00-0177	LF	>7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.90	0.76
07 62 00 00-0178	LF	>9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.32	0.76
07 62 00 00-0179	LF	>12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	10.58	0.76
07 62 00 00-0180		0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0181	LF	Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.66	0.76
07 62 00 00-0182	LF	>5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.04	0.76
07 62 00 00-0183	LF	>7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.07	0.76
07 62 00 00-0184	LF	>9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	9.79	0.76
07 62 00 00-0185	LF	>12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	12.55	0.76
07 62 00 00-0186		0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)		
07 62 00 00-0187	LF	Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.55	0.76
07 62 00 00-0188	LF	>5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.22	0.76
07 62 00 00-0189	LF	>7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	9.47	0.76
07 62 00 00-0190	LF	>9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	11.56	0.76
07 62 00 00-0191	LF	>12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.91	0.76
07 62 00 00-0192		Steel Flashing And Trim (07 62)		
07 62 00 00-0193		Galvanized Steel Flashing And Trim (07 62 00 00-0192)		
07 62 00 00-0194	SF	26 Gauge, Galvanized Steel Flashing	11.89	3.69
		For Wrap Around Window Panning, Add	8.00	
07 62 00 00-0195	SF	24 Gauge, Galvanized Steel Flashing	12.20	3.69
		For Wrap Around Window Panning, Add	8.00	
07 62 00 00-0196		Galvanized Steel Drip Edge (07 62 00 00-0192)		
		Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 00 00-0197		Galvanized Steel Drip Edge (07 62 00 00-0196)		
07 62 00 00-0198		26 Gauge, Galvanized Steel Drip Edge (07 62 00 00-0197)		
07 62 00 00-0199	LF	Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge	3.08	0.76
07 62 00 00-0200	LF	>5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	3.61	0.76
07 62 00 00-0201	LF	>7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	3.99	0.76
07 62 00 00-0202	LF	>9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	4.63	0.76
07 62 00 00-0203	LF	>12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	5.66	0.76
07 62 00 00-0204		24 Gauge, Galvanized Steel Drip Edge (07 62 00 00-0197)		
07 62 00 00-0205	LF	Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge	3.31	0.76
07 62 00 00-0206	LF	>5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	3.92	0.76
07 62 00 00-0207	LF	>7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	4.36	0.76
07 62 00 00-0208	LF	>9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	5.10	0.76
07 62 00 00-0209	LF	>12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	6.28	0.76
07 62 00 00-0210		KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 00 00-0196)		
07 62 00 00-0211		26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 00 00-0210)		
07 62 00 00-0212	LF	Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	3.78	0.76
07 62 00 00-0213	LF	>5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	4.55	0.76
07 62 00 00-0214	LF	>7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	5.09	0.76
07 62 00 00-0215	LF	>9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	6.03	0.76
07 62 00 00-0216	LF	>12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	7.52	0.76
07 62 00 00-0217		24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 00 00-0210)		
07 62 00 00-0218	LF	Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	4.12	0.76
07 62 00 00-0219	LF	>5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	5.00	0.76
07 62 00 00-0220	LF	>7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	5.63	0.76
07 62 00 00-0221	LF	>9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	6.70	0.76
07 62 00 00-0222	LF	>12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	8.42	0.76

07 Thermal And Moisture Protection**07 60 Flashing And Sheet Metal****07 62 Sheet Metal Flashing And Trim**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
07 63 Sheet Metal Roofing Specialties (07 60)**07 63 00 00-0001****Pitch Pockets** (07 63)

Note: Cut into deck, filled with non-shrink grout, includes blocking.

07 63 00 00-0002 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)

07 63 00 00-0003	EA 4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	55.93
	For Pourable Sealer Filled, Add	22.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	11.20
07 63 00 00-0004	EA 6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	62.14
	For Pourable Sealer Filled, Add	50.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	25.21
07 63 00 00-0005	EA 8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	70.29
	For Pourable Sealer Filled, Add	89.57
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.69
07 63 00 00-0006	EA 8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	75.78
	For Pourable Sealer Filled, Add	111.96
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	56.03
07 63 00 00-0007	EA 8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	80.37
	For Pourable Sealer Filled, Add	134.35
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	67.18
07 63 00 00-0008	SF 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	87.59
	For Pourable Sealer Filled, Add	201.53
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	100.54

07 63 00 00-0009 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)

07 63 00 00-0010	EA 4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	77.34
	For Pourable Sealer Filled, Add	22.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	11.20
07 63 00 00-0011	EA 6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	87.38
	For Pourable Sealer Filled, Add	50.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	25.21
07 63 00 00-0012	EA 8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	99.90
	For Pourable Sealer Filled, Add	89.57
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.69
07 63 00 00-0013	EA 8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	108.79
	For Pourable Sealer Filled, Add	111.96
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	56.03
07 63 00 00-0014	EA 8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	114.26
	For Pourable Sealer Filled, Add	134.35
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	67.18
07 63 00 00-0015	SF 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	123.50
	For Pourable Sealer Filled, Add	201.53
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	100.54

07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)

07 63 00 00-0017	EA 4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	67.34
	For Pourable Sealer Filled, Add	22.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	11.20
07 63 00 00-0018	EA 6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	75.00
	For Pourable Sealer Filled, Add	50.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	25.21
07 63 00 00-0019	EA 8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	81.90
	For Pourable Sealer Filled, Add	89.57
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.69
07 63 00 00-0020	EA 8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	87.16
	For Pourable Sealer Filled, Add	111.96
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	56.03
07 63 00 00-0021	EA 8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	91.45
	For Pourable Sealer Filled, Add	134.35
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	67.18
07 63 00 00-0022	SF 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	97.93
	For Pourable Sealer Filled, Add	201.53
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	100.54

07 63 00 00-0023 Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout (07 63 00 00-0001)

Note: Includes removing existing filler and refilling with non-shrink grout.

07 63 00 00-0024	EA Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout.....	46.87
	For Pourable Sealer Filled, Add	22.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	11.20
07 63 00 00-0025	EA Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout.....	49.71
	For Pourable Sealer Filled, Add	50.39
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	25.21
07 63 00 00-0026	EA Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout.....	53.09
	For Pourable Sealer Filled, Add	89.57
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.69



Thermal And Moisture Protection			07
Flashing And Sheet Metal			07 60
Sheet Metal Roofing Specialties			07 63

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
07 63 00 00-0027	EA Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout.....	55.67			
	For Pourable Sealer Filled, Add	111.96			
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	56.03			
07 63 00 00-0028	EA Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout.....	58.25			
	For Pourable Sealer Filled, Add	134.35			
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	67.18			
07 63 00 00-0029	SF Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout	62.94			
	For Pourable Sealer Filled, Add	201.53			
	For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	100.54			
07 63 00 00-0030	Lead Pipe Flashing For Roofs (07 63)				
	Note: Includes 6" skirt base.				
07 63 00 00-0031	EA 1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe.....	85.73		29.30	
07 63 00 00-0032	EA 1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe	85.73		29.30	
07 63 00 00-0033	EA 2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe	100.92		29.30	
07 63 00 00-0034	EA 3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe	109.60		29.30	
07 63 00 00-0035	EA 4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe	113.95		29.30	
07 63 00 00-0036	EA 4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe	116.12		29.30	
07 63 00 00-0037	EA 6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe	137.82		29.30	
07 63 00 00-0038	EA 8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe	147.59		29.30	
07 63 00 00-0039	Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing (07 63)				
07 63 00 00-0040	EA 2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	64.58		18.94	
07 63 00 00-0041	EA 3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	65.11		18.94	
07 63 00 00-0042	EA 4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	66.98		18.94	
07 63 00 00-0043	EA 6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	76.35		18.94	
07 65	Flexible Flashing (07 60)				
07 65 16	Modified Bituminous Sheet Flashing (07 65)				
07 65 16 00-0001	Liquid Flashing System For Modified And BUR Systems (07 65 16)				
	See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.				
07 65 16 00-0002	SF 60 Mil, Urethane Elastomer Liquid Applied Flashing	7.08		1.57	
	Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 30 mil second coat.				
07 65 19	Plastic Sheet Flashing (07 65)				
07 65 19 00-0001	Plastic Flashing And Trim (07 65 19)				
07 65 19 00-0002	Neoprene Flashing (07 65 19 00-0001)				
07 65 19 00-0003	60 Mil Neoprene Flashing (07 65 19 00-0002)				
07 65 19 00-0004	LF 6" Wide Strip, 60 Mil, Neoprene Flashing	6.04		2.06	
07 65 19 00-0005	LF 12" Wide Strip, 60 Mil, Neoprene Flashing	7.74		2.22	
07 65 19 00-0006	LF 18" Wide Strip, 60 Mil, Neoprene Flashing	9.67		2.44	
07 65 19 00-0007	LF 24" Wide Strip, 60 Mil, Neoprene Flashing	11.74		2.75	
07 65 33	Plastic Flashing (07 65)				
07 65 33 00-0001	Neoprene Roof Boot (07 65 33)				
07 65 33 00-0002	EA Neoprene Roof Boot For 2" Diameter Pipe.....	25.99		6.34	
07 65 33 00-0003	EA Neoprene Roof Boot For 3" Diameter Pipe.....	30.20		7.10	
07 65 33 00-0004	EA Neoprene Roof Boot For 4" Diameter Pipe.....	33.27		7.63	
07 70	Roof And Wall Specialties And Accessories (07)				
	Note: Includes placement of materials on roof up to 2-1/2 stories.				
07 71	Roof Specialties (07 70)				
07 71 13	Manufactured Copings (07 71)				
07 71 13 00-0001	Galvanized Steel Copings (07 71 13)				
07 71 13 00-0002	KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats (07 71 13 00-0001)				
	Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.				
07 71 13 00-0003	LF 10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	17.85		1.65	
07 71 13 00-0004	LF >14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	18.85		1.79	
07 71 13 00-0005	LF >16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	21.42		1.88	
07 71 13 00-0006	LF >22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	24.82		2.06	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 71	Roof Specialties



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0007	LF	>30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	29.85	2.15
07 71 13 00-0008		Aluminum Copings (07 71 13)		
07 71 13 00-0009		Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009) Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0010		0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)		
07 71 13 00-0011	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	14.32	1.65
07 71 13 00-0012	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	15.30	1.79
07 71 13 00-0013	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	17.74	1.88
07 71 13 00-0014	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	21.10	2.06
07 71 13 00-0015	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	26.03	2.15
07 71 13 00-0016		0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)		
07 71 13 00-0017	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	15.48	1.65
07 71 13 00-0018	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	16.54	1.79
07 71 13 00-0019	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	19.20	1.88
07 71 13 00-0020	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	22.86	2.06
07 71 13 00-0021	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	28.27	2.15
07 71 13 00-0022		0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)		
07 71 13 00-0023	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	16.43	1.65
07 71 13 00-0024	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	17.64	1.79
07 71 13 00-0025	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	21.02	1.88
07 71 13 00-0026	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	26.12	2.06
07 71 13 00-0027	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.54	2.15
07 71 13 00-0028		KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0008) Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0029		0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0028)		
07 71 13 00-0030	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	19.53	1.65
07 71 13 00-0031	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	20.85	1.79
07 71 13 00-0032	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	24.32	1.88
07 71 13 00-0033	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	29.04	2.06
07 71 13 00-0034	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	36.13	2.15
07 71 13 00-0035		0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0028)		
07 71 13 00-0036	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	21.21	1.65
07 71 13 00-0037	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	22.64	1.79
07 71 13 00-0038	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	26.44	1.88
07 71 13 00-0039	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	31.61	2.06
07 71 13 00-0040	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	39.38	2.15
07 71 13 00-0041		0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0028)		
07 71 13 00-0042	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	22.59	1.65
07 71 13 00-0043	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	24.23	1.79
07 71 13 00-0044	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	29.07	1.88
07 71 13 00-0045	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	36.33	2.06



Thermal And Moisture Protection		07
Roof And Wall Specialties And Accessories		07 70
Roof Specialties		07 71

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0046	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	47.02	2.15
07 71 13 00-0047		Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0048) Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0048		0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0049	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	20.54	1.65
07 71 13 00-0050	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	21.92	1.79
07 71 13 00-0051	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	25.59	1.88
07 71 13 00-0052	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	30.58	2.06
07 71 13 00-0053	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	38.08	2.15
07 71 13 00-0054		0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0055	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	22.32	1.65
07 71 13 00-0056	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	23.82	1.79
07 71 13 00-0057	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	27.84	1.88
07 71 13 00-0058	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	33.30	2.06
07 71 13 00-0059	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	41.53	2.15
07 71 13 00-0060		0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0061	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	23.78	1.65
07 71 13 00-0062	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	25.51	1.79
07 71 13 00-0063	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	30.63	1.88
07 71 13 00-0064	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	38.30	2.06
07 71 13 00-0065	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	49.63	2.15
07 71 13 00-0066		Remove And Reinstall Metal Coping (07 71 13)		
07 71 13 00-0067	LF	Removal And Reinstallation Of Metal Coping	8.00	
07 71 19		Manufactured Gravel Stops And Fasciae (07 71)		
07 71 19 00-0001		Gravel Stop (07 71 19)		
07 71 19 00-0002		Aluminum Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0003		Aluminum Gravel Stop (07 71 19 00-0002)		
07 71 19 00-0004		KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0005		0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0006	LF	4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	10.59	1.38
07 71 19 00-0007	LF	>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	10.74	1.42
07 71 19 00-0008	LF	>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	10.94	1.47
07 71 19 00-0009		0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0010	LF	4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	11.17	1.38
07 71 19 00-0011	LF	>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	11.34	1.42
07 71 19 00-0012	LF	>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	11.57	1.47
07 71 19 00-0013		0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0014	LF	4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	11.92	1.38
07 71 19 00-0015	LF	>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	12.06	1.42
07 71 19 00-0016	LF	>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	12.37	1.47

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0017 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0018 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.43	1.38
07 71 19 00-0019 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.59	1.42
07 71 19 00-0020 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.93	1.47
07 71 19 00-0021 Mill Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0022 0.032" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)		
07 71 19 00-0023 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	7.39	1.38
07 71 19 00-0024 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	7.70	1.42
07 71 19 00-0025 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	8.05	1.47
07 71 19 00-0026 0.040" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)		
07 71 19 00-0027 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	7.87	1.38
07 71 19 00-0028 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	8.12	1.42
07 71 19 00-0029 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	8.37	1.47
07 71 19 00-0030 0.050" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)		
07 71 19 00-0031 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	8.35	1.38
07 71 19 00-0032 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	8.60	1.42
07 71 19 00-0033 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	8.89	1.47
07 71 19 00-0034 0.063" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)		
07 71 19 00-0035 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	8.87	1.38
07 71 19 00-0036 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	9.08	1.42
07 71 19 00-0037 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	9.28	1.47
07 71 19 00-0038 Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0039 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0040 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	12.36	1.38
07 71 19 00-0041 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	12.59	1.42
07 71 19 00-0042 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	12.81	1.47
07 71 19 00-0043 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0044 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.06	1.38
07 71 19 00-0045 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.32	1.42
07 71 19 00-0046 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.57	1.47
07 71 19 00-0047 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0048 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.96	1.38
07 71 19 00-0049 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.18	1.42
07 71 19 00-0050 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.37	1.47
07 71 19 00-0051 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0052 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.57	1.38
07 71 19 00-0053 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.82	1.42
07 71 19 00-0054 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	15.03	1.47
07 71 19 00-0055 Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0002)		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0056 KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0057 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0058 LF 4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	13.46	2.29
07 71 19 00-0059 LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.00	2.37
07 71 19 00-0060 LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.66	2.44
07 71 19 00-0061 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0062 LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.04	2.29
07 71 19 00-0063 LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.60	2.37



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0064 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.29	2.44
07 71 19 00-0065 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0066 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.79	2.29
07 71 19 00-0067 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.32	2.37
07 71 19 00-0068 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.09	2.44
07 71 19 00-0069 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)		
07 71 19 00-0070 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.30	2.29
07 71 19 00-0071 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.85	2.37
07 71 19 00-0072 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.65	2.44
07 71 19 00-0073 Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0074 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0075 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	10.70	2.29
07 71 19 00-0076 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.13	2.37
07 71 19 00-0077 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.65	2.44
07 71 19 00-0078 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0079 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.10	2.29
07 71 19 00-0080 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.54	2.37
07 71 19 00-0081 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.09	2.44
07 71 19 00-0082 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0083 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.62	2.29
07 71 19 00-0084 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.04	2.37
07 71 19 00-0085 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.61	2.44
07 71 19 00-0086 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0087 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.97	2.29
07 71 19 00-0088 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.40	2.37
07 71 19 00-0089 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	13.00	2.44
07 71 19 00-0090 Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0091 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0092 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.23	2.29
07 71 19 00-0093 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.85	2.37
07 71 19 00-0094 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.53	2.44
07 71 19 00-0095 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0096 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.93	2.29
07 71 19 00-0097 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.58	2.37
07 71 19 00-0098 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.29	2.44
07 71 19 00-0099 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0100 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.83	2.29
07 71 19 00-0101 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.44	2.37

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0102 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	18.09	2.44
07 71 19 00-0103 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0104 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	17.44	2.29
07 71 19 00-0105 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	18.08	2.37
07 71 19 00-0106 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat	18.75	2.44
07 71 19 00-0107 Stainless Steel Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0108 Stainless Steel Gravel Stop (07 71 19 00-0107)		
07 71 19 00-0109 26 Gauge, Stainless Steel Gravel Stop (07 71 19 00-0108)		
07 71 19 00-0110 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop	8.71	1.38
07 71 19 00-0111 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop	10.81	1.42
07 71 19 00-0112 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop	15.21	1.47
07 71 19 00-0113 24 Gauge, Stainless Steel Gravel Stop (07 71 19 00-0108)		
07 71 19 00-0114 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop	10.44	1.38
07 71 19 00-0115 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop	13.12	1.42
07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop	18.66	1.47
07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop (07 71 19 00-0108)		
07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop	12.27	1.38
07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop	15.57	1.42
07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop	22.33	1.47
07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0107)		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0121)		
07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	11.71	2.29
07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	14.24	2.37
07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	19.15	2.44
07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0121)		
07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	13.44	2.29
07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	16.55	2.37
07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	22.60	2.44
07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0121)		
07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	15.27	2.29
07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	19.00	2.37
07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	26.27	2.44
07 71 19 00-0134 Galvanized Steel Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0135 Galvanized Steel Gravel Stop (07 71 19 00-0134)		
07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop (07 71 19 00-0135)		
07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop (07 71 19 00-0136)		
07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	9.61	1.38
07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	9.74	1.42
07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop	9.97	1.47
07 71 19 00-0141 Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0134)		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0142 KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0141)		
07 71 19 00-0143 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0142)		
07 71 19 00-0144 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	12.48	2.29
07 71 19 00-0145 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat	13.00	2.37



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0146	LF	>10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	13.69	2.44
07 71 19 00-0147		Copper Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0148		Copper Gravel Stop (07 71 19 00-0147)		
07 71 19 00-0149		20 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0150	LF	4" To 6" Face Height, 20 Ounce, Copper Gravel Stop.....	36.90	1.38
07 71 19 00-0151	LF	>6" To 10" Face Height, 20 Ounce, Copper Gravel Stop.....	41.81	1.42
07 71 19 00-0152	LF	>10" To 18" Face Height, 20 Ounce, Copper Gravel Stop.....	48.04	1.47
07 71 19 00-0153		16 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0154	LF	4" To 6" Face Height, 16 Ounce, Copper Gravel Stop.....	45.00	1.38
07 71 19 00-0155	LF	>6" To 10" Face Height, 16 Ounce, Copper Gravel Stop.....	51.71	1.42
07 71 19 00-0156	LF	>10" To 18" Face Height, 16 Ounce, Copper Gravel Stop.....	58.84	1.47
07 71 19 00-0157		Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0147) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158		20 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0159	LF	4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	39.90	2.29
07 71 19 00-0160	LF	>6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	45.24	2.37
07 71 19 00-0161	LF	>10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	51.98	2.44
07 71 19 00-0162		16 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0163	LF	4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	48.00	2.29
07 71 19 00-0164	LF	>6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	55.14	2.37
07 71 19 00-0165	LF	>10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	62.78	2.44
07 71 19 00-0166		Fascia (07 71 19)		
07 71 19 00-0167		Snap-On Cover Fascia (07 71 19 00-0166) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0168		Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0169		KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0168)		
07 71 19 00-0170		24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0169)		
07 71 19 00-0171	LF	3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	12.50	1.91
07 71 19 00-0172	LF	>5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	13.84	1.99
07 71 19 00-0173	LF	>7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	14.75	2.06
07 71 19 00-0174		Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0169)		
07 71 19 00-0175		Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0176	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	73.14	2.67
07 71 19 00-0177	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	77.88	2.67
07 71 19 00-0178	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	80.86	2.67
07 71 19 00-0179		Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0180	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	60.22	2.67
07 71 19 00-0181	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	62.62	2.67
07 71 19 00-0182	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	64.07	2.67
07 71 19 00-0183		Aluminum Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0184		KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)		
07 71 19 00-0185		0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)		
07 71 19 00-0186	LF	3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	13.46	1.91

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0187 LF >5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	15.13	1.99
07 71 19 00-0188 LF >7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	16.04	2.06
07 71 19 00-0189 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)		
07 71 19 00-0190 LF 3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	14.09	1.91
07 71 19 00-0191 LF >5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	15.94	1.99
07 71 19 00-0192 LF >7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	16.95	2.06
07 71 19 00-0193 Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0184)		
07 71 19 00-0194 Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0193)		
07 71 19 00-0195 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	82.05	2.67
07 71 19 00-0196 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	88.86	2.67
07 71 19 00-0197 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	91.84	2.67
07 71 19 00-0198 Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0193)		
07 71 19 00-0199 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	65.25	2.67
07 71 19 00-0200 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	68.65	2.67
07 71 19 00-0201 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	70.13	2.67
07 71 19 00-0202 Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)		
07 71 19 00-0203 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0202)		
07 71 19 00-0204 LF 3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	15.39	1.91
07 71 19 00-0205 LF >5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	17.36	1.99
07 71 19 00-0206 LF >7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	18.42	2.06
07 71 19 00-0207 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0202)		
07 71 19 00-0208 LF 3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	16.14	1.91
07 71 19 00-0209 LF >5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	18.33	1.99
07 71 19 00-0210 LF >7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	19.51	2.06
07 71 19 00-0211 Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0202)		
07 71 19 00-0212 Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0213 EA Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	101.22	2.67
07 71 19 00-0214 EA Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	109.74	2.67
07 71 19 00-0215 EA Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	113.46	2.67
07 71 19 00-0216 Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0217 EA Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	80.23	2.67
07 71 19 00-0218 EA Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	84.47	2.67
07 71 19 00-0219 EA Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	86.33	2.67



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23			Manufactured Gutters And Downspouts (07 71) Note: Includes all necessary support straps.		
07 71 23 00-0001			Aluminum Gutters And Downspouts (07 71 23)		
07 71 23 00-0002			Aluminum Gutters (07 71 23 00-0001) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0003			K-Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0004	LF		5", 0.027" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	6.48 0.76	2.87
07 71 23 00-0005	LF		6", 0.027" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	6.95 0.97	2.87
07 71 23 00-0006	LF		5", 0.032" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	6.73 0.87	2.87
07 71 23 00-0007	LF		6", 0.032" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	7.26 1.11	2.87
07 71 23 00-0008	LF		7", 0.032" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	12.75 3.58	2.87
07 71 23 00-0009	LF		8", 0.032" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	13.49 3.91	2.87
07 71 23 00-0010	LF		8", 0.040" Thick, K-Style Aluminum Gutter For Kynar 500® Finish, Add	15.16 4.66	2.87
07 71 23 00-0011			Half Round Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0012	LF		5", 0.027" Thick, Half Round Aluminum Gutter For Kynar 500® Finish, Add	11.34 2.94	2.87
07 71 23 00-0013	LF		6", 0.032" Thick, Half Round Aluminum Gutter For Kynar 500® Finish, Add	13.32 3.83	2.87
07 71 23 00-0014			Box Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0015	LF		6", 0.027" Thick, Box Style Aluminum Gutter For Kynar 500® Finish, Add	10.87 2.73	2.87
07 71 23 00-0016	LF		6", 0.032" Thick, Box Style Aluminum Gutter For Kynar 500® Finish, Add	10.90 2.75	2.87
07 71 23 00-0017	LF		7", 0.032" Thick, Box Style Aluminum Gutter For Kynar 500® Finish, Add	12.40 3.42	2.87
07 71 23 00-0018	LF		8", 0.032" Thick, Box Style Aluminum Gutter For Kynar 500® Finish, Add	13.75 4.03	2.87
07 71 23 00-0019			Aluminum Gutter End Caps (07 71 23 00-0001)		
07 71 23 00-0020			K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0021	EA		5", K-Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	2.89 0.27	
07 71 23 00-0022	EA		6", K-Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	3.36 0.48	
07 71 23 00-0023	EA		7", K-Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	6.25 1.78	
07 71 23 00-0024	EA		8", K-Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	7.14 2.18	
07 71 23 00-0025			Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0026	EA		5", Half Round Aluminum Gutter End Cap For Kynar 500® Finish, Add	4.10 0.81	
07 71 23 00-0027	EA		6", Half Round Aluminum Gutter End Cap For Kynar 500® Finish, Add	5.86 1.60	
07 71 23 00-0028			Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0029	EA		6", Box Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	6.74 2.00	
07 71 23 00-0030	EA		7", Box Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	7.25 2.23	
07 71 23 00-0031	EA		8", Box Style Aluminum Gutter End Cap For Kynar 500® Finish, Add	8.35 2.72	
07 71 23 00-0032			Aluminum Gutter Miters (07 71 23 00-0001) Note: Inside or outside miters.		
07 71 23 00-0033			K-Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0034	EA		5", K-Style Aluminum Gutter Miter For Kynar 500® Finish, Add	8.66 2.08	
07 71 23 00-0035	EA		6", K-Style Aluminum Gutter Miter For Kynar 500® Finish, Add	12.04 3.60	
07 71 23 00-0036	EA		7", K-Style Aluminum Gutter Miter For Kynar 500® Finish, Add	42.57 17.34	

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07 70	Roof And Wall Specialties And Accessories
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0037 EA 8", K-Style Aluminum Gutter Miter For Kynar 500® Finish, Add	46.00 18.89	
07 71 23 00-0038 Half Round, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0039 EA 5", Half Round Aluminum Gutter Miter For Kynar 500® Finish, Add	17.15 5.90	
07 71 23 00-0040 EA 6", Half Round Aluminum Gutter Miter For Kynar 500® Finish, Add	28.19 10.87	
07 71 23 00-0041 Box Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0042 EA 6", Box Style Aluminum Gutter Miter For Kynar 500® Finish, Add	34.24 13.59	
07 71 23 00-0043 EA 7", Box Style Aluminum Gutter Miter For Kynar 500® Finish, Add	52.21 21.68	
07 71 23 00-0044 EA 8", Box Style Aluminum Gutter Miter For Kynar 500® Finish, Add	56.49 23.61	
07 71 23 00-0045 Aluminum Gutter Wire Strainers (07 71 23 00-0001)		
07 71 23 00-0046 EA 3" Diameter, Round Aluminum Wire Strainer For Kynar 500® Finish, Add	10.63 2.08	2.87
07 71 23 00-0047 EA 4" Diameter, Round Aluminum Wire Strainer For Kynar 500® Finish, Add	14.54 3.84	2.87
07 71 23 00-0048 Aluminum Downspouts (07 71 23 00-0001) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0049 Round Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0050 LF 3" Diameter, Round Aluminum Downspout For Kynar 500® Finish, Add	5.30 1.04	2.76
07 71 23 00-0051 LF 4" Diameter, Round Aluminum Downspout For Kynar 500® Finish, Add	5.84 1.28	2.76
07 71 23 00-0052 Rectangular Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0053 LF 2" x 3", Rectangular Aluminum Downspout For Kynar 500® Finish, Add	4.17 0.53	2.76
07 71 23 00-0054 LF 3" x 4", Rectangular Aluminum Downspout For Kynar 500® Finish, Add	4.86 0.84	2.76
07 71 23 00-0055 LF 4" x 5", Rectangular Aluminum Downspout For Kynar 500® Finish, Add	7.76 2.15	2.76
07 71 23 00-0056 Aluminum Devices (07 71 23 00-0001)		
07 71 23 00-0057 EA Thru-Wall Aluminum Scupper Outlet For Kynar 500® Finish, Add	101.94 20.10	17.18
07 71 23 00-0058 EA Aluminum Leader/Conductor Head For Kynar 500® Finish, Add	138.58 45.18	19.09
07 71 23 00-0059 Copper Gutters And Downspouts (07 71 23)		
07 71 23 00-0060 Copper Gutters (07 71 23 00-0059) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0061 K-Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0062 LF 4", 16 Ounce, K-Style Copper Gutter 07 71 23 00-0063 LF 5", 16 Ounce, K-Style Copper Gutter 07 71 23 00-0064 LF 6", 16 Ounce, K-Style Copper Gutter 07 71 23 00-0065 LF 5", 20 Ounce, K-Style Copper Gutter 07 71 23 00-0066 LF 6", 20 Ounce, K-Style Copper Gutter 07 71 23 00-0067 LF 7", 20 Ounce, K-Style Copper Gutter 07 71 23 00-0068 LF 8", 20 Ounce, K-Style Copper Gutter	13.93 19.63 23.28 24.96 30.82 35.58 39.09	2.87 2.87 2.87 2.87 2.87 2.87 2.87
07 71 23 00-0069 Half Round Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0070 LF 5", 16 Ounce, Half Round Copper Gutter 07 71 23 00-0071 LF 6", 16 Ounce, Half Round Copper Gutter 07 71 23 00-0072 LF 7", 16 Ounce, Half Round Copper Gutter 07 71 23 00-0073 LF 5", 20 Ounce, Half Round Copper Gutter 07 71 23 00-0074 LF 6", 20 Ounce, Half Round Copper Gutter 07 71 23 00-0075 LF 7", 20 Ounce, Half Round Copper Gutter 07 71 23 00-0076 LF 8", 20 Ounce, Half Round Copper Gutter	16.85 21.20 35.69 19.76 24.30 37.57 42.24	2.87 2.87 2.87 2.87 2.87 2.87 2.87
07 71 23 00-0077 Copper Gutter End Caps (07 71 23 00-0059)		
07 71 23 00-0078 K-Style, Copper Gutter End Caps (07 71 23 00-0077)		
07 71 23 00-0079 EA 4", K-Style Copper Gutter End Cap	5.45	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0080 EA 5", K-Style Copper Gutter End Cap	5.79	
07 71 23 00-0081 EA 6", K-Style Copper Gutter End Cap	6.14	
07 71 23 00-0082 EA 7", K-Style Copper Gutter End Cap	15.45	
07 71 23 00-0083 EA 8", K-Style Copper Gutter End Cap	18.72	
07 71 23 00-0084 Half Round, Copper Gutter End Caps (07 71 23 00-0077)		
07 71 23 00-0085 EA 4", Half Round Copper Gutter End Cap	6.48	
07 71 23 00-0086 EA 5", Half Round Copper Gutter End Cap	7.22	
07 71 23 00-0087 EA 6", Half Round Copper Gutter End Cap	10.62	
07 71 23 00-0088 EA 7", Half Round Copper Gutter End Cap	30.91	
07 71 23 00-0089 EA 8", Half Round Copper Gutter End Cap	36.41	
07 71 23 00-0090 Copper Gutter Miters (07 71 23 00-0059)		
Note: Inside or outside miters.		
07 71 23 00-0091 K-Style, Copper Gutter Miters (07 71 23 00-0090)		
07 71 23 00-0092 EA 4", K-Style Copper Gutter Miter	27.36	
07 71 23 00-0093 EA 5", K-Style Copper Gutter Miter	30.94	
07 71 23 00-0094 EA 6", K-Style Copper Gutter Miter	46.08	
07 71 23 00-0095 EA 7", K-Style Copper Gutter Miter	66.87	
07 71 23 00-0096 EA 8", K-Style Copper Gutter Miter	78.81	
07 71 23 00-0097 Half Round, Copper Gutter Miters (07 71 23 00-0090)		
07 71 23 00-0098 EA 4", Half Round Copper Gutter Miter	45.14	
07 71 23 00-0099 EA 5", Half Round Copper Gutter Miter	40.80	
07 71 23 00-0100 EA 6", Half Round Copper Gutter Miter	60.33	
07 71 23 00-0101 EA 7", Half Round Copper Gutter Miter	72.40	
07 71 23 00-0102 EA 8", Half Round Copper Gutter Miter	85.97	
07 71 23 00-0103 Copper Gutter Wire Strainers (07 71 23 00-0059)		
07 71 23 00-0104 EA 2" Diameter, Round Copper Wire Strainer	13.01	2.87
07 71 23 00-0105 EA 3" Diameter, Round Copper Wire Strainer	15.32	2.87
07 71 23 00-0106 EA 4" Diameter, Round Copper Wire Strainer	22.84	2.87
07 71 23 00-0107 EA 5" Diameter, Round Copper Wire Strainer	29.39	2.87
07 71 23 00-0108 EA 6" Diameter, Round Copper Wire Strainer	34.87	2.87
07 71 23 00-0109 Copper Downspouts (07 71 23 00-0059)		
Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0110 Round Copper Downspouts (07 71 23 00-0109)		
07 71 23 00-0111 LF 2" Diameter, 16 Ounce, Round Copper Downspout	21.02	2.76
07 71 23 00-0112 LF 3" Diameter, 16 Ounce, Round Copper Downspout	14.87	2.76
07 71 23 00-0113 LF 4" Diameter, 16 Ounce, Round Copper Downspout	18.54	2.76
07 71 23 00-0114 LF 5" Diameter, 16 Ounce, Round Copper Downspout	29.19	2.76
07 71 23 00-0115 LF 6" Diameter, 16 Ounce, Round Copper Downspout	37.32	2.76
07 71 23 00-0116 LF 3" Diameter, 20 Ounce, Round Copper Downspout	19.85	2.76
07 71 23 00-0117 LF 4" Diameter, 20 Ounce, Round Copper Downspout	25.53	2.76
07 71 23 00-0118 LF 5" Diameter, 20 Ounce, Round Copper Downspout	38.42	2.76
07 71 23 00-0119 Square Copper Downspouts (07 71 23 00-0109)		
07 71 23 00-0120 LF 3" Diameter, 16 Ounce, Square Copper Downspout	10.52	2.76
07 71 23 00-0121 LF 4" Diameter, 16 Ounce, Square Copper Downspout	12.97	2.76
07 71 23 00-0122 LF 5" Diameter, 16 Ounce, Square Copper Downspout	18.24	2.76
07 71 23 00-0123 LF 3" Diameter, 20 Ounce, Square Copper Downspout	12.03	2.76
07 71 23 00-0124 LF 4" Diameter, 20 Ounce, Square Copper Downspout	15.08	2.76
07 71 23 00-0125 LF 5" Diameter, 20 Ounce, Square Copper Downspout	21.34	2.76
07 71 23 00-0126 Rectangular Copper Downspouts (07 71 23 00-0109)		
07 71 23 00-0127 LF 2" x 3", 16 Ounce, Rectangular Copper Downspout	15.24	2.76
07 71 23 00-0128 LF 3" x 4", 16 Ounce, Rectangular Copper Downspout	19.08	2.76
07 71 23 00-0129 LF 4" x 5", 16 Ounce, Rectangular Copper Downspout	26.83	2.76
07 71 23 00-0130 LF 2" x 3", 20 Ounce, Rectangular Copper Downspout	17.63	2.76
07 71 23 00-0131 LF 3" x 4", 20 Ounce, Rectangular Copper Downspout	22.39	2.76
07 71 23 00-0132 LF 4" x 5", 20 Ounce, Rectangular Copper Downspout	31.82	2.76
07 71 23 00-0133 Copper Devices And Accessories (07 71 23 00-0059)		
07 71 23 00-0134 EA Thru-Wall Copper Scupper Outlet.....	159.89	17.18
07 71 23 00-0135 EA Copper Leader/Conductor Head.....	233.53	19.09
07 71 23 00-0136 EA Copper Eave Box.....	114.33	17.27
07 71 23 00-0137 Galvanized Steel Gutters And Downspouts (07 71 23)		

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07 70	Roof And Wall Specialties And Accessories
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0138			Galvanized Steel Gutters (07 71 23 00-0137) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0139			K-Style Galvanized Steel Gutters (07 71 23 00-0138)		
07 71 23 00-0140	LF	5", 26 Gauge, K-Style Galvanized Steel Gutter	.....	7.50	2.87
		For Kynar 500® Finish, Add	.....	1.22	
07 71 23 00-0141	LF	6", 26 Gauge, K-Style Galvanized Steel Gutter	.....	8.32	2.87
		For Kynar 500® Finish, Add	.....	1.58	
07 71 23 00-0142	LF	7", 26 Gauge, K-Style Galvanized Steel Gutter	.....	15.63	2.87
		For Kynar 500® Finish, Add	.....	4.87	
07 71 23 00-0143	LF	8", 24 Gauge, K-Style Galvanized Steel Gutter	.....	16.04	2.87
		For Kynar 500® Finish, Add	.....	5.06	
07 71 23 00-0144			Half Round Galvanized Steel Gutters (07 71 23 00-0138)		
07 71 23 00-0145	LF	5", 26 Gauge, Half Round Galvanized Steel Gutter	.....	10.28	2.87
		For Kynar 500® Finish, Add	.....	2.47	
07 71 23 00-0146	LF	6", 26 Gauge, Half Round Galvanized Steel Gutter	.....	12.42	2.87
		For Kynar 500® Finish, Add	.....	3.43	
07 71 23 00-0147	LF	7", 26 Gauge, Half Round Galvanized Steel Gutter	.....	29.08	2.87
		For Kynar 500® Finish, Add	.....	10.93	
07 71 23 00-0148	LF	8", 26 Gauge, Half Round Galvanized Steel Gutter	.....	30.58	2.87
		For Kynar 500® Finish, Add	.....	11.60	
07 71 23 00-0149			Box Style Galvanized Steel Gutters (07 71 23 00-0138)		
07 71 23 00-0150	LF	5", 24 Gauge, Box Style Galvanized Steel Gutter	.....	11.53	2.87
		For Kynar 500® Finish, Add	.....	3.03	
		For 22 Gauge, Add	.....	1.01	
07 71 23 00-0151	LF	6", 24 Gauge, Box Style Galvanized Steel Gutter	.....	13.03	2.87
		For Kynar 500® Finish, Add	.....	3.70	
		For 22 Gauge, Add	.....	1.23	
07 71 23 00-0152	LF	7", 24 Gauge, Box Style Galvanized Steel Gutter	.....	16.70	2.87
		For Kynar 500® Finish, Add	.....	5.36	
		For 22 Gauge, Add	.....	1.79	
07 71 23 00-0153	LF	8", 24 Gauge, Box Style Galvanized Steel Gutter	.....	17.72	2.87
		For Kynar 500® Finish, Add	.....	5.81	
		For 22 Gauge, Add	.....	1.94	
07 71 23 00-0154			Galvanized Steel Gutter End Caps (07 71 23 00-0137)		
07 71 23 00-0155			K-Style, Galvanized Steel Gutter End Caps (07 71 23 00-0154)		
07 71 23 00-0156	EA	5", K-Style Galvanized Steel Gutter End Cap	.....	3.91	
		For Kynar 500® Finish, Add	.....	0.72	
07 71 23 00-0157	EA	6", K-Style Galvanized Steel Gutter End Cap	.....	4.34	
		For Kynar 500® Finish, Add	.....	0.92	
07 71 23 00-0158	EA	7", K-Style Galvanized Steel Gutter End Cap	.....	8.11	
		For Kynar 500® Finish, Add	.....	2.61	
07 71 23 00-0159	EA	8", K-Style Galvanized Steel Gutter End Cap	.....	11.27	
		For Kynar 500® Finish, Add	.....	4.04	
07 71 23 00-0160			Half Round, Galvanized Steel Gutter End Caps (07 71 23 00-0154)		
07 71 23 00-0161	EA	5", Half Round Galvanized Steel Gutter End Cap	.....	4.72	
		For Kynar 500® Finish, Add	.....	1.09	
07 71 23 00-0162	EA	6", Half Round Galvanized Steel Gutter End Cap	.....	5.26	
		For Kynar 500® Finish, Add	.....	1.33	
07 71 23 00-0163	EA	7", Half Round Galvanized Steel Gutter End Cap	.....	8.84	
		For Kynar 500® Finish, Add	.....	2.94	
07 71 23 00-0164	EA	8", Half Round Galvanized Steel Gutter End Cap	.....	11.55	
		For Kynar 500® Finish, Add	.....	4.16	
07 71 23 00-0165			Box Style, Galvanized Steel Gutter End Caps (07 71 23 00-0154)		
07 71 23 00-0166	EA	5", Box Style Galvanized Steel Gutter End Cap	.....	7.57	
		For Kynar 500® Finish, Add	.....	2.37	
07 71 23 00-0167	EA	6", Box Style Galvanized Steel Gutter End Cap	.....	8.89	
		For Kynar 500® Finish, Add	.....	2.97	
07 71 23 00-0168	EA	7", Box Style Galvanized Steel Gutter End Cap	.....	9.82	
		For Kynar 500® Finish, Add	.....	3.38	
07 71 23 00-0169	EA	8", Box Style Galvanized Steel Gutter End Cap	.....	12.78	
		For Kynar 500® Finish, Add	.....	4.72	
07 71 23 00-0170			Galvanized Steel Gutter Miters (07 71 23 00-0137) Note: Inside or outside miters.		
07 71 23 00-0171			K-Style, Galvanized Steel Gutter Miters (07 71 23 00-0170)		
07 71 23 00-0172	EA	5", K-Style Galvanized Steel Gutter Miter	.....	14.98	
		For Kynar 500® Finish, Add	.....	4.93	
07 71 23 00-0173	EA	6", K-Style Galvanized Steel Gutter Miter		24.98	
		For Kynar 500® Finish, Add		9.43	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0174	EA		7", K-Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	40.88 16.58	
07 71 23 00-0175	EA		8", K-Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	45.81 18.80	
07 71 23 00-0176			Half Round, Galvanized Steel Gutter Miters (07 71 23 00-0170)		
07 71 23 00-0177	EA		5", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	21.17 7.71	
07 71 23 00-0178	EA		6", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	23.61 8.81	
07 71 23 00-0179	EA		7", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	70.62 29.97	
07 71 23 00-0180	EA		8", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	74.32 31.63	
07 71 23 00-0181			Box Style, Galvanized Steel Gutter Miters (07 71 23 00-0170)		
07 71 23 00-0182	EA		5", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	19.93 7.16	
07 71 23 00-0183	EA		6", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	33.17 13.11	
07 71 23 00-0184	EA		7", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	43.34 17.69	
07 71 23 00-0185	EA		8", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	45.81 18.80	
07 71 23 00-0186			Galvanized Steel Gutter Wire Strainers (07 71 23 00-0137)		
07 71 23 00-0187	EA		3" Diameter, Round Galvanized Steel Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	9.69 1.66	2.87
07 71 23 00-0188	EA		4" Diameter, Round Galvanized Steel Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	12.83 3.07	2.87
07 71 23 00-0189			Galvanized Steel Downspouts (07 71 23 00-0137) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0190			Round Galvanized Steel Downspouts (07 71 23 00-0189)		
07 71 23 00-0191	LF		3" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	4.96 0.89	2.76
07 71 23 00-0192	LF		4" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	5.80 1.26	2.76
07 71 23 00-0193	LF		5" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	7.36 1.97	2.76
07 71 23 00-0194	LF		6" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	14.56 5.21	2.76
07 71 23 00-0195			Square Galvanized Steel Downspouts (07 71 23 00-0189)		
07 71 23 00-0196	LF		4" x 4", 26 Gauge, Square Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	5.43 1.10	2.76
07 71 23 00-0197	LF		5" x 5", 26 Gauge, Square Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	6.54 1.60	2.76
07 71 23 00-0198			Rectangular Galvanized Steel Downspouts (07 71 23 00-0189)		
07 71 23 00-0199	LF		2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	5.02 0.91	2.76
07 71 23 00-0200	LF		3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	6.00 1.35	2.76
07 71 23 00-0201	LF		4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout..... <i>For Kynar 500® Finish, Add</i>	9.86 3.09	2.76
07 71 23 00-0202			Galvanized Steel Devices (07 71 23 00-0137)		
07 71 23 00-0203	EA		Galvanized Steel Leader/Conductor Head..... <i>For Kynar 500® Finish, Add</i>	163.98 56.61	19.09
07 71 23 00-0204	EA		Thru-Wall Galvanized Steel Scupper Outlet..... <i>For Kynar 500® Finish, Add</i>	103.97 21.01	17.18
07 71 23 00-0205			Stainless Steel Gutters And Downspouts (07 71 23) Note: AISI type 304 stainless steel.		
07 71 23 00-0206			Stainless Steel Gutters (07 71 23 00-0205) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0207			K-Style Stainless Steel Gutters (07 71 23 00-0206)		
07 71 23 00-0208	LF		5", 0.018" Thick, K-Style Stainless Steel Gutter.....	16.89	2.87
07 71 23 00-0209	LF		6", 0.018" Thick, K-Style Stainless Steel Gutter.....	19.91	2.87

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0210		Half Round Stainless Steel Gutters (07 71 23 00-0206)		
07 71 23 00-0211	LF	5", 0.018" Thick, Half Round Stainless Steel Gutter	23.10	2.87
07 71 23 00-0212	LF	6", 0.018" Thick, Half Round Stainless Steel Gutter	27.64	2.87
07 71 23 00-0213		Stainless Steel Gutter End Caps (07 71 23 00-0205)		
07 71 23 00-0214		K-Style, Stainless Steel Gutter End Caps (07 71 23 00-0213)		
07 71 23 00-0215	EA	5", K-Style Stainless Steel Gutter End Cap	6.08	
07 71 23 00-0216	EA	6", K-Style Stainless Steel Gutter End Cap	6.84	
07 71 23 00-0217		Half Round, Stainless Steel Gutter End Caps (07 71 23 00-0213)		
07 71 23 00-0218	EA	5", Half Round Stainless Steel Gutter End Cap	7.03	
07 71 23 00-0219	EA	6", Half Round Stainless Steel Gutter End Cap	7.97	
07 71 23 00-0220		Stainless Steel Gutter Miters (07 71 23 00-0205) Note: Inside or outside box miters.		
07 71 23 00-0221		K-Style, Stainless Steel Gutter Miters (07 71 23 00-0220)		
07 71 23 00-0222	EA	5", K-Style Stainless Steel Gutter Miter	23.56	
07 71 23 00-0223	EA	6", K-Style Stainless Steel Gutter Miter	38.69	
07 71 23 00-0224		Half Round, Stainless Steel Gutter Miters (07 71 23 00-0220)		
07 71 23 00-0225	EA	5", Half Round Stainless Steel Gutter Miter	61.37	
07 71 23 00-0226	EA	6", Half Round Stainless Steel Gutter Miter	75.21	
07 71 23 00-0227		Stainless Steel Gutter Wire Strainers (07 71 23 00-0205)		
07 71 23 00-0228	EA	3" Diameter, Round Stainless Steel Wire Strainer	25.85	2.87
07 71 23 00-0229	EA	4" Diameter, Round Stainless Steel Wire Strainer	26.39	2.87
07 71 23 00-0230		Stainless Steel Downspouts (07 71 23 00-0205) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0231		Round Stainless Steel Downspouts (07 71 23 00-0230)		
07 71 23 00-0232	LF	3" Diameter, 0.018" Thick, Round Stainless Steel Downspout	15.98	2.76
07 71 23 00-0233	LF	4" Diameter, 0.018" Thick, Round Stainless Steel Downspout	27.78	2.76
07 71 23 00-0234	LF	5" Diameter, 0.018" Thick, Round Stainless Steel Downspout	42.22	2.76
07 71 23 00-0235		Rectangular Stainless Steel Downspouts (07 71 23 00-0230)		
07 71 23 00-0236	LF	2" x 3", 0.018" Thick, Rectangular Stainless Steel Downspout	11.02	2.76
07 71 23 00-0237	LF	3" x 4", 0.018" Thick, Rectangular Stainless Steel Downspout	14.28	2.76
07 71 23 00-0238	LF	4" x 5", 0.018" Thick, Rectangular Stainless Steel Downspout	33.47	2.76
07 71 23 00-0239		Stainless Steel Devices (07 71 23 00-0205)		
07 71 23 00-0240	EA	Thru-Wall Stainless Steel Scupper Outlet	206.77	25.90
07 71 23 00-0241	EA	Stainless Steel Leader/Conductor Head	233.68	25.90
07 71 23 00-0242		Vinyl Gutters And Downspouts (07 71 23)		
07 71 23 00-0243		Vinyl Gutters (07 71 23 00-0242) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0244		K-Style Vinyl Gutters (07 71 23 00-0243)		
07 71 23 00-0245	LF	4", K-Style Vinyl Gutter	8.13	2.87
07 71 23 00-0246	LF	5", K-Style Vinyl Gutter	9.85	2.87
07 71 23 00-0247		Half Round Vinyl Gutters (07 71 23 00-0243)		
07 71 23 00-0248	LF	4", Half Round Vinyl Gutter	8.33	2.87
07 71 23 00-0249	LF	5", Half Round Vinyl Gutter	8.64	2.87
07 71 23 00-0250		Vinyl Gutter End Caps (07 71 23 00-0242)		
07 71 23 00-0251		K-Style, Vinyl Gutter End Caps (07 71 23 00-0250)		
07 71 23 00-0252	EA	4", K-Style Vinyl Gutter End Cap	4.72	
07 71 23 00-0253	EA	5", K-Style Vinyl Gutter End Cap	6.14	
07 71 23 00-0254		Half Round, Vinyl Gutter End Caps (07 71 23 00-0250)		
07 71 23 00-0255	EA	4", Half Round Vinyl Gutter End Cap	5.24	
07 71 23 00-0256	EA	5", Half Round Vinyl Gutter End Cap	5.01	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
07 71 23 00-0257	Vinyl Gutter Miters (07 71 23 00-0242) Note: Inside or outside miters.				
07 71 23 00-0258	K-Style, Vinyl Gutter Miters (07 71 23 00-0257)				
07 71 23 00-0259	EA 4", K-Style Vinyl Gutter Miter	10.98			
07 71 23 00-0260	EA 5", K-Style Vinyl Gutter Miter	15.58			
07 71 23 00-0261	Half Round, Vinyl Gutter Miters (07 71 23 00-0257)				
07 71 23 00-0262	EA 4", Half Round Vinyl Gutter Miter	10.98			
07 71 23 00-0263	EA 5", Half Round Vinyl Gutter Miter	11.77			
07 71 23 00-0264	Vinyl Downspouts (07 71 23 00-0242) Note: Includes elbows, hangers and fasteners.				
07 71 23 00-0265	Round Vinyl Downspouts (07 71 23 00-0264)				
07 71 23 00-0266	LF 2-1/2" Diameter, Round Vinyl Downspout.....	5.27		2.76	
07 71 23 00-0267	LF 3" Diameter, Round Vinyl Downspout.....	5.43		2.76	
07 71 23 00-0268	Square Vinyl Downspouts (07 71 23 00-0264)				
07 71 23 00-0269	LF 2-1/2", Square Vinyl Downspout	5.20		2.76	
07 71 23 00-0270	Rectangular Vinyl Downspouts (07 71 23 00-0264)				
07 71 23 00-0271	LF 2" x 3", Rectangular Vinyl Downspout	6.27		2.76	
07 71 23 00-0272	Gutter And Downspout Boots (07 71 23)				
07 71 23 00-0273	Cast Iron Roof Drainage Downspout Boots (07 71 23 00-0272)				
07 71 23 00-0274	EA 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	171.03		4.14	
07 71 23 00-0275	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	222.42		4.14	
07 71 23 00-0276	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot.....	265.14		4.14	
07 71 23 00-0277	Cast Iron Roof Drainage Downspout Boots With Cleanouts (07 71 23 00-0272)				
07 71 23 00-0278	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	291.06		4.14	
07 71 23 00-0279	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	355.20		4.14	
07 71 23 00-0280	EA 5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	643.18		4.14	
07 71 23 00-0281	Wall Mounted Downspout Covers With Hinged Perforated Cover (07 71 23)				
07 71 23 00-0282	EA 3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03).....	602.87		27.70	
	For Polished Brass Finish (-PB), Add	54.75			
	For Chrome Plated Finish (-CP), Add	82.12			
	For Vandal Proof (-U), Add	27.37			
07 71 23 00-0283	EA 4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04).....	621.34		36.92	
	For Polished Brass Finish (-PB), Add	54.75			
	For Chrome Plated Finish (-CP), Add	82.12			
	For Vandal Proof (-U), Add	27.37			
07 71 23 00-0284	EA 6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06).....	671.28		46.52	
	For Polished Brass Finish (-PB), Add	57.82			
	For Chrome Plated Finish (-CP), Add	86.73			
	For Vandal Proof (-U), Add	28.91			
07 71 23 00-0285	EA 8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08).....	723.54		58.73	
	For Polished Brass Finish (-PB), Add	60.61			
	For Chrome Plated Finish (-CP), Add	90.91			
	For Vandal Proof (-U), Add	30.30			
07 71 23 00-0286	EA 10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10).....	786.04		72.37	
	For Polished Brass Finish (-PB), Add	64.13			
	For Chrome Plated Finish (-CP), Add	96.20			
	For Vandal Proof (-U), Add	32.07			
07 71 23 00-0287	EA 12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12).....	882.32		101.03	
	For Polished Brass Finish (-PB), Add	68.03			
	For Chrome Plated Finish (-CP), Add	102.04			
	For Vandal Proof (-U), Add	34.01			
07 71 23 00-0288	EA 15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15).....	999.69		140.50	
	For Polished Brass Finish (-PB), Add	71.87			
	For Chrome Plated Finish (-CP), Add	107.80			
	For Vandal Proof (-U), Add	35.93			
07 71 23 00-0289	Wall Mounted Downspout Nozzle (07 71 23)				
07 71 23 00-0290	EA 3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03)	173.57		27.70	
	For Nickle Bronze Finish (-NB), Add	82.73			
	For Polished Bronze Finish (-PB), Add	65.00			
	For Chrome Plated Finish (-CP), Add	105.19			

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0291 EA 4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04) For Nickle Bronze Finish (-NB), Add For Polished Bronze Finish (-PB), Add For Chrome Plated Finish (-CP), Add	192.04 82.73 65.00 105.19	36.92
07 71 23 00-0292 EA 6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06) For Nickle Bronze Finish (-NB), Add For Polished Bronze Finish (-PB), Add For Chrome Plated Finish (-CP), Add	373.42 84.11 47.66 123.36	46.52
07 71 23 00-0293 EA 8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08) For Nickle Bronze Finish (-NB), Add For Polished Bronze Finish (-PB), Add For Chrome Plated Finish (-CP), Add	543.07 72.35 55.33 123.42	58.73
07 71 23 00-0294 EA 10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10) For Nickle Bronze Finish (-NB), Add For Polished Bronze Finish (-PB), Add For Chrome Plated Finish (-CP), Add	697.26 93.93 71.83 160.23	72.37
07 71 23 00-0295 EA 12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12) For Nickle Bronze Finish (-NB), Add For Polished Bronze Finish (-PB), Add For Chrome Plated Finish (-CP), Add	897.16 118.17 90.36 201.58	101.03
07 71 23 00-0296 Leaf Guards And Cleaning (07 71 23)		
07 71 23 00-0297 LF Aluminum Mesh Gutter Leaf Guard 07 71 23 00-0298 LF Vinyl Mesh Gutter Leaf Guard..... 07 71 23 00-0299 LF 6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire 07 71 23 00-0300 LF 9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire 07 71 23 00-0301 LF 6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh 07 71 23 00-0302 LF 9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh 07 71 23 00-0303 EA Cleanout Roof Drain Note: Includes removing dome and flushing. 07 71 23 00-0304 LF Clean Gutters And Downspouts.....	1.98 2.04 11.52 16.38 8.77 13.43 109.54 1.41	0.72 0.72 0.90 0.90 0.90 0.90
07 71 26 Reglets (07 71)		
07 71 26 00-0001 Counter Flashing With Reglet (07 71 26) Note: Includes reglet cut.		
07 71 26 00-0002 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0003 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0004 LF 28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0005 LF 26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0006 LF 24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0007 LF 22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0008 LF 20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0009 LF 18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	9.45 9.52 9.65 10.13 10.40 10.71	3.39 3.39 3.39 3.39 3.39 3.39
07 71 26 00-0010 KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0011 LF 28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0012 LF 26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0013 LF 24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0014 LF 22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0015 LF 20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet 07 71 26 00-0016 LF 18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	10.64 10.74 10.93 11.62 12.02 12.48	3.39 3.39 3.39 3.39 3.39 3.39
07 71 26 00-0017 Aluminum Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0019 LF 0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet 07 71 26 00-0020 LF 0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet 07 71 26 00-0021 LF 0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet 07 71 26 00-0022 LF 0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet 07 71 26 00-0023 LF 0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet 07 71 26 00-0024 LF 0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	10.37 10.93 11.50 11.91 12.81 14.13	3.39 3.39 3.39 3.39 3.39 3.39
07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0026 LF 0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet..... 07 71 26 00-0027 LF 0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet..... 07 71 26 00-0028 LF 0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet..... 07 71 26 00-0029 LF 0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet..... 07 71 26 00-0030 LF 0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet..... 07 71 26 00-0031 LF 0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	9.08 9.44 9.80 10.06 10.64 11.48	3.39 3.39 3.39 3.39 3.39 3.39
07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet 07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	10.11 10.63	3.39 3.39



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 26 00-0035	LF	0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	11.15	3.39
07 71 26 00-0036	LF	0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	11.53	3.39
07 71 26 00-0037	LF	0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	12.37	3.39
07 71 26 00-0038	LF	0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	13.59	3.39
07 71 26 00-0039		Stainless Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0040		Stainless Steel Counter Flashing With Reglet (07 71 26 00-0039)		
07 71 26 00-0041	LF	24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	13.32	3.39
07 71 26 00-0042	LF	20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	14.48	3.39
07 71 26 00-0043		Copper Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0044		Copper Counter Flashing With Reglet (07 71 26 00-0043)		
07 71 26 00-0045	LF	16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....	23.96	3.39
07 72 Roof Accessories (07 70)				
07 72 13 Manufactured Curbs (07 72)				
07 72 13 00-0001		Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13)		
07 72 13 00-0002		Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0001) Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0003		18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)		
07 72 13 00-0004		9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0003)		
07 72 13 00-0005	EA	26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	302.55	80.78
		For Sloped Roofs Up To 1 In 12 Pitch, Add	22.18	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	52.43	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0006	EA	26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	308.55	80.78
		For Sloped Roofs Up To 1 In 12 Pitch, Add	22.78	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	53.63	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.05	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.05	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.05	
07 72 13 00-0007	EA	26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	331.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	24.09	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.26	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0008	EA	26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	354.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	26.39	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	61.86	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.60	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.60	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	58.60	
07 72 13 00-0009	EA	26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	371.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	28.09	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	65.26	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0010	EA	26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	459.94	100.97
		For Sloped Roofs Up To 1 In 12 Pitch, Add	35.90	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	81.89	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.95	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	55.95	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	74.95	
07 72 13 00-0011	EA	38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	310.55	80.78
		For Sloped Roofs Up To 1 In 12 Pitch, Add	22.98	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	54.03	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.25	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.25	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.25	
07 72 13 00-0012	EA	38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	332.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	24.19	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.46	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.30	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	48.30	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.30	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0013	EA		38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	345.75 25.49 60.06 7.80 51.80 65.80	90.87
07 72 13 00-0014	EA		38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	350.75 25.99 61.06 9.30 57.30 70.30	90.87
07 72 13 00-0015	EA		38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	443.94 34.30 78.69 12.00 65.00 85.00	100.97
07 72 13 00-0016	EA		38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	485.14 37.41 85.92 14.70 75.70 99.70	111.07
07 72 13 00-0017	EA		50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	378.75 28.79 66.66 8.10 52.10 63.10	90.87
07 72 13 00-0018	EA		50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	411.94 31.10 72.29 9.75 50.75 70.75	100.97
07 72 13 00-0019	EA		50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	422.94 32.20 74.49 11.55 46.55 80.55	100.97
07 72 13 00-0020	EA		50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	464.14 35.31 81.72 13.50 58.50 90.50	111.07
07 72 13 00-0021	EA		51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	496.34 37.52 87.15 15.45 71.45 96.45	121.17
07 72 13 00-0022	EA		51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	536.52 40.53 94.18 18.60 81.60 115.60	131.27
07 72 13 00-0023	EA		62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	422.94 32.20 74.49 12.30 45.30 83.30	100.97
07 72 13 00-0024	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	453.14 34.21 79.52 14.10 63.10 94.10	111.07
07 72 13 00-0025	EA		62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	495.34 37.42 86.95 18.30 67.30 96.30	121.17
07 72 13 00-0026	EA		62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	505.34 38.42 88.95 18.30 67.30 117.30	121.17



Thermal And Moisture Protection		07
Roof And Wall Specialties And Accessories		07 70
Roof Accessories		07 72

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0027	EA		62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	547.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	41.63	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	96.38	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	23.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	73.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	137.10	
07 72 13 00-0028 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof					
Curbs (07 72 13 00-0003)					
07 72 13 00-0029	EA		26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	315.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	23.48	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.03	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0030	EA		26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	318.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	23.78	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.63	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.05	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.05	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.05	
07 72 13 00-0031	EA		26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	341.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	25.09	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	59.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0032	EA		26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	367.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	27.69	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	64.46	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	58.60	
07 72 13 00-0033	EA		26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	386.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	29.59	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	68.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0034	EA		26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof		
			Curb.....	471.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	37.10	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	84.29	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	55.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	74.95	
07 72 13 00-0035	EA		38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	319.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	23.88	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.83	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.25	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.25	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.25	
07 72 13 00-0036	EA		38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	359.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	26.89	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	62.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	48.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.30	
07 72 13 00-0037	EA		38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	379.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	28.89	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0038	EA		38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	402.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	31.19	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	71.46	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0039	EA		38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	459.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	35.90	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	81.89	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0040	EA		38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof		
			Curb.....	505.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	39.41	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	89.92	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.70	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	75.70	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	99.70	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0041	EA	50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	390.75 29.99 69.06 8.10 52.10 63.10	90.87
07 72 13 00-0042	EA	50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	421.94 32.10 74.29 9.75 50.75 70.75	100.97
07 72 13 00-0043	EA	50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	437.94 33.70 77.49 11.55 46.55 80.55	100.97
07 72 13 00-0044	EA	50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	480.14 36.91 84.92 13.50 58.50 90.50	111.07
07 72 13 00-0045	EA	51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	515.34 39.42 90.95 15.45 71.45 96.45	121.17
07 72 13 00-0046	EA	51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	558.52 42.73 98.58 18.60 81.60 115.60	131.27
07 72 13 00-0047	EA	62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	437.94 33.70 77.49 12.30 45.30 83.30	100.97
07 72 13 00-0048	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	469.14 35.81 82.72 14.10 63.10 94.10	111.07
07 72 13 00-0049	EA	62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	512.34 39.12 90.35 18.30 67.30 96.30	121.17
07 72 13 00-0050	EA	62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	525.34 40.42 92.95 18.30 67.30 117.30	121.17
07 72 13 00-0051	EA	62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	569.52 43.83 100.78 23.10 73.10 137.10	131.27
07 72 13 00-0052		14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0053)		
07 72 13 00-0053	EA	26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	322.55 24.18 56.43 3.30 24.30 35.30	80.78
07 72 13 00-0054	EA	26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	325.55 24.48 57.03 4.05 32.05 42.05	80.78



Thermal And Moisture Protection			07
Roof And Wall Specialties And Accessories			07 70
Roof Accessories			07 72

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0055	EA		26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	346.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	25.59	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0056	EA		26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	375.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	28.49	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.06	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	58.60	
07 72 13 00-0057	EA		26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	397.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	30.69	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.46	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0058	EA		26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	485.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	38.50	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	87.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	55.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	74.95	
07 72 13 00-0059	EA		38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	325.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	24.48	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.03	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.25	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.25	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.25	
07 72 13 00-0060	EA		38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	346.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	25.59	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	48.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.30	
07 72 13 00-0061	EA		38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	397.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	30.69	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.46	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0062	EA		38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	421.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	33.09	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	75.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0063	EA		38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	471.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	37.10	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	84.29	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0064	EA		38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	518.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.71	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	92.52	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.70	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	75.70	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	99.70	
07 72 13 00-0065	EA		50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	398.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	30.79	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0066	EA		50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	432.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	33.20	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	76.49	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.75	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	50.75	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.75	
07 72 13 00-0067	EA		50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	447.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	34.70	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	79.49	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0068	EA		50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	492.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	38.11	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	87.32	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.50	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.50	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	90.50	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0069	EA		51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	527.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.62	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	93.35	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0070	EA		51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	572.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	44.13	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	101.38	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	81.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	115.60	
07 72 13 00-0071	EA		62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	447.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	34.70	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	79.49	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0072	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	480.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	36.91	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	84.92	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0073	EA		62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	525.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.42	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	92.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.30	
07 72 13 00-0074	EA		62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	538.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	41.72	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	95.55	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0075	EA		62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	584.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	45.33	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.78	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	23.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	73.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	137.10	
07 72 13 00-0076			14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)		
07 72 13 00-0077			9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)		
07 72 13 00-0078	EA		26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	291.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	21.08	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	50.23	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0079	EA		26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	304.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	22.38	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	52.83	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.05	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.05	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.05	
07 72 13 00-0080	EA		26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	349.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	25.89	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0081	EA		26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	379.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	28.89	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	58.60	
07 72 13 00-0082	EA		26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	401.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	31.09	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	71.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0083	EA		26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	501.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.10	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	90.29	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	55.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	74.95	



Thermal And Moisture Protection			07
Roof And Wall Specialties And Accessories			07 70
Roof Accessories			07 72

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
07 72 13 00-0084	EA	38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	328.55	80.78
		For Sloped Roofs Up To 1 In 12 Pitch, Add	24.78	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.63	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.25	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.25	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.25	
07 72 13 00-0085	EA	38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	357.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	26.69	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	62.46	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.30	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	48.30	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.30	
07 72 13 00-0086	EA	38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	367.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	27.69	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	64.46	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0087	EA	38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	376.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	28.59	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.26	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0088	EA	38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	477.94	100.97
		For Sloped Roofs Up To 1 In 12 Pitch, Add	37.70	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.49	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0089	EA	38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	525.14	111.07
		For Sloped Roofs Up To 1 In 12 Pitch, Add	41.41	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	93.92	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.70	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	75.70	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	99.70	
07 72 13 00-0090	EA	50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	402.75	90.87
		For Sloped Roofs Up To 1 In 12 Pitch, Add	31.19	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	71.46	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0091	EA	50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	436.94	100.97
		For Sloped Roofs Up To 1 In 12 Pitch, Add	33.60	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.29	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.75	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	50.75	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.75	
07 72 13 00-0092	EA	50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	452.94	100.97
		For Sloped Roofs Up To 1 In 12 Pitch, Add	35.20	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	80.49	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0093	EA	50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	498.14	111.07
		For Sloped Roofs Up To 1 In 12 Pitch, Add	38.71	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	88.52	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.50	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.50	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	90.50	
07 72 13 00-0094	EA	51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	533.34	121.17
		For Sloped Roofs Up To 1 In 12 Pitch, Add	41.22	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	94.55	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0095	EA	51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	579.52	131.27
		For Sloped Roofs Up To 1 In 12 Pitch, Add	44.83	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	102.78	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.60	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	81.60	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	115.60	
07 72 13 00-0096	EA	62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	452.94	100.97
		For Sloped Roofs Up To 1 In 12 Pitch, Add	35.20	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	80.49	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0097	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	485.14	111.07
		For Sloped Roofs Up To 1 In 12 Pitch, Add	37.41	
		For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.92	
		For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
		For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
		For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0098	EA		62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....531.34		121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	41.02	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	94.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.30	
07 72 13 00-0099	EA		62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....545.34		121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	42.42	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	96.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0100	EA		62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....592.52		131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	46.13	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	105.38	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	23.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	73.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	137.10	

07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)

07 72 13 00-0102	EA		26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....300.55		80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	21.98	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	52.03	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0103	EA		26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....315.55		80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	23.48	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.03	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.05	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.05	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.05	
07 72 13 00-0104	EA		26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....364.75		90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	27.39	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	63.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0105	EA		26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....397.75		90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	30.69	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.46	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	58.60	
07 72 13 00-0106	EA		26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....424.75		90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	33.39	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	75.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0107	EA		26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....505.94		100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.50	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	91.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	55.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	74.95	
07 72 13 00-0108	EA		38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....341.55		80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	26.08	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.23	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.25	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.25	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.25	
07 72 13 00-0109	EA		38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....373.75		90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	28.29	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	65.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	48.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.30	
07 72 13 00-0110	EA		38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....386.75		90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	29.59	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	68.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0111	EA		38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....398.75		90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	30.79	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	



Thermal And Moisture Protection		07
Roof And Wall Specialties And Accessories		07 70
Roof Accessories		07 72

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0112	EA		38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	501.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.10	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	90.29	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0113	EA		38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	554.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	44.31	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	99.72	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.70	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	75.70	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	99.70	
07 72 13 00-0114	EA		50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	420.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	32.99	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	75.06	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0115	EA		50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	456.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	35.60	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	81.29	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.75	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	50.75	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.75	
07 72 13 00-0116	EA		50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	475.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	37.50	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0117	EA		50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	522.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	41.11	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	93.32	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.50	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.50	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	90.50	
07 72 13 00-0118	EA		51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	561.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	44.02	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	100.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0119	EA		51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	611.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	48.03	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	109.18	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	81.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	115.60	
07 72 13 00-0120	EA		62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	475.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	37.50	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0121	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	511.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.01	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	91.12	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0122	EA		62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	559.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	43.82	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	99.75	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.30	
07 72 13 00-0123	EA		62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	574.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	45.32	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	102.75	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0124	EA		62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	626.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	49.53	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	112.18	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	23.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	73.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	137.10	

07 72 13 00-0125 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0126 EA 26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	307.55	80.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	22.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	53.43	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0127 EA 26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	323.55	80.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	24.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	56.63	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.05	
07 72 13 00-0128 EA 26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	373.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.29	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	65.66	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0129 EA 26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	409.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	31.89	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	72.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.60	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	58.60	
07 72 13 00-0130 EA 26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	439.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.89	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	78.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0131 EA 26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	537.94	100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	43.70	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	97.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	10.95	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	55.95	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	74.95	
07 72 13 00-0132 EA 38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	351.55	80.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.08	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	62.23	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.25	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.25	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.25	
07 72 13 00-0133 EA 38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	390.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	29.99	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	69.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	6.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	48.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.30	
07 72 13 00-0134 EA 38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	408.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	31.79	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	72.66	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0135 EA 38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	412.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	32.19	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	73.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0136 EA 38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	519.94	100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	41.90	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	93.89	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0137 EA 38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	574.14	111.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	46.31	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.70	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	75.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	99.70	
07 72 13 00-0138 EA 50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	432.75	90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.19	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0139 EA 50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	469.94	100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.90	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	83.89	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	50.75	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.75	



Thermal And Moisture Protection		07	07
Roof And Wall Specialties And Accessories		07 70	
Roof Accessories		07 72	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0140	EA		50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	490.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	39.00	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	88.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0141	EA		50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	540.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	42.91	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	96.92	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.50	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.50	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	90.50	
07 72 13 00-0142	EA		51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	579.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	45.82	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.75	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0143	EA		51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	633.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	50.23	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	113.58	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.60	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	81.60	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	115.60	
07 72 13 00-0144	EA		62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	490.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	39.00	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	88.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0145	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	529.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	41.81	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	94.72	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0146	EA		62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	576.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	45.52	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.30	
07 72 13 00-0147	EA		62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	594.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	47.32	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	106.75	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0148	EA		62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	648.52	131.27
			For Sloped Roofs Up To 1 In 12 Pitch, Add	51.73	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	116.58	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	23.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	73.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	137.10	
07 72 13 00-0149			Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0001)		
			Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.		
07 72 13 00-0150			6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0151	EA		14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	349.19	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	26.84	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	61.76	
07 72 13 00-0152	EA		23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	432.49	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	35.17	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	78.42	
07 72 13 00-0153	EA		32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	499.01	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	40.81	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	90.71	
07 72 13 00-0154	EA		41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	565.53	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	47.47	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	104.02	
07 72 13 00-0155	EA		50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	624.39	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	52.34	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	114.78	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0156			12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width		
			Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0157	EA		14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	471.16	80.78
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	39.04	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	86.15	
07 72 13 00-0158	EA		23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	584.21	80.78
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	50.34	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	108.76	
07 72 13 00-0159	EA		32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	607.60	90.87
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	51.67	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	112.43	
07 72 13 00-0160	EA		41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	650.10	90.87
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	55.92	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	120.93	
07 72 13 00-0161	EA		50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	729.79	100.97
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	62.88	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	135.86	
07 72 13 00-0162	EA		64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	913.62	111.07
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	80.26	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	171.62	
07 72 13 00-0163			18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable		
			Width Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0164	EA		17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width	671.55	80.78
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	59.08	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	126.23	
07 72 13 00-0165	EA		24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width	787.15	80.78
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	70.64	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	149.35	
07 72 13 00-0166	EA		31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width	944.63	90.87
			Prefabricated Roof Curb		
			For Sloped Roofs Up To 1 In 12 Pitch, Add	85.38	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	179.84	
07 72 13 00-0167			Wood, Prefabricated Roof Curbs (07 72 13)		
			Note: Includes Douglas fir construction, galvanized steel corner straps and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0168			Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0167)		
07 72 13 00-0169			2 x 6 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)		
07 72 13 00-0170	EA		26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	242.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	16.18	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	40.43	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0171	EA		26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	268.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	17.79	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	44.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0172	EA		26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	294.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	20.39	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	49.86	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0173	EA		38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	291.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	20.09	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	49.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0174	EA		38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	298.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	20.79	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	50.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	



Thermal And Moisture Protection		07
Roof And Wall Specialties And Accessories		07 70
Roof Accessories		07 72

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0175	EA		38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	335.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	23.50	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0176	EA		50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	296.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	20.59	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	50.26	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0177	EA		50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	344.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	24.40	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	58.89	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0178	EA		51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	385.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	26.42	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	64.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0179	EA		62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	326.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	22.60	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.29	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0180	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	359.14	111.07
			For Sloped Roofs Up To 1 In 12 Pitch, Add	24.81	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.72	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0181	EA		62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	405.34	121.17
			For Sloped Roofs Up To 1 In 12 Pitch, Add	28.42	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	68.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0182 2 x 8 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)					
07 72 13 00-0183	EA		26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	248.55	80.78
			For Sloped Roofs Up To 1 In 12 Pitch, Add	16.78	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	41.63	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0184	EA		26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	275.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	18.49	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	46.06	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0185	EA		26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	313.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	22.29	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	53.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0186	EA		38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	303.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	21.29	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	51.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0187	EA		38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	313.75	90.87
			For Sloped Roofs Up To 1 In 12 Pitch, Add	22.29	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	53.66	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0188	EA		38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	350.94	100.97
			For Sloped Roofs Up To 1 In 12 Pitch, Add	25.00	
			For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.09	
			For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
			For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
			For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0189	EA	50" x 50"	Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	307.75 21.69 52.46 8.10 52.10 63.10	90.87
07 72 13 00-0190	EA	50" x 74"	Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	358.94 25.80 61.69 11.55 46.55 80.55	100.97
07 72 13 00-0191	EA	51" x 99"	Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	399.34 27.82 67.75 15.45 71.45 96.45	121.17
07 72 13 00-0192	EA	62" x 62"	Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	337.94 23.70 57.49 12.30 45.30 83.30	100.97
07 72 13 00-0193	EA	62-3/8" x 74-3/8"	Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	372.14 26.11 63.32 14.10 63.10 94.10	111.07
07 72 13 00-0194	EA	62" x 98"	Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	419.34 29.82 71.75 18.30 67.30 117.30	121.17
07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)					
07 72 13 00-0196	EA	26" x 26"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	252.55 17.18 42.43 3.30 24.30 35.30	80.78
07 72 13 00-0197	EA	26" x 50"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	282.75 19.19 47.46 4.95 39.95 46.95	90.87
07 72 13 00-0198	EA	26" x 98"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	315.75 22.49 54.06 9.15 58.15 64.15	90.87
07 72 13 00-0199	EA	38" x 62"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	310.75 21.99 53.06 7.80 51.80 65.80	90.87
07 72 13 00-0200	EA	38" x 74"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	322.75 23.19 55.46 9.30 57.30 70.30	90.87
07 72 13 00-0201	EA	38" x 98"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	360.94 26.00 62.09 12.00 65.00 85.00	100.97
07 72 13 00-0202	EA	50" x 50"	Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	314.75 22.39 53.86 8.10 52.10 63.10	90.87



Thermal And Moisture Protection		07
Roof And Wall Specialties And Accessories		07 70
Roof Accessories		07 72

10

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
07 72 13 00-0203	EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	367.94 26.70 63.49 11.55 46.55 80.55		100.97
07 72 13 00-0204	EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	408.34 28.72 69.55 15.45 71.45 96.45		121.17
07 72 13 00-0205	EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	344.94 24.40 58.89 12.30 45.30 83.30		100.97
07 72 13 00-0206	EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	380.14 26.91 64.92 14.10 63.10 94.10		111.07
07 72 13 00-0207	EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	429.34 30.82 73.75 18.30 67.30 117.30		121.17
07 72 13 00-0208	2 x 12 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)			
07 72 13 00-0209	EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	257.55 17.68 43.43 3.30 24.30 35.30		80.78
07 72 13 00-0210	EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	286.75 19.59 48.26 4.95 39.95 46.95		90.87
07 72 13 00-0211	EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	324.75 23.39 55.86 9.15 58.15 64.15		90.87
07 72 13 00-0212	EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	332.75 24.19 57.46 9.30 57.30 70.30		90.87
07 72 13 00-0213	EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	371.94 27.10 64.29 12.00 65.00 85.00		100.97
07 72 13 00-0214	EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	323.75 23.29 55.66 8.10 52.10 63.10		90.87
07 72 13 00-0215	EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	377.94 27.70 65.49 11.55 46.55 80.55		100.97
07 72 13 00-0216	EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	420.34 29.92 71.95 15.45 71.45 96.45		121.17

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0217 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....388.14		111.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.71	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0218 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0167)		
07 72 13 00-0219 2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0220 EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....250.55		80.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	16.98	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	42.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0221 EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....275.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	18.49	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	46.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0222 EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....307.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	21.69	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	52.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0223 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....300.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	20.99	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	51.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0224 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....309.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	21.89	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	52.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0225 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....347.94		100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	24.70	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	59.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0226 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....305.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	21.49	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	52.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0227 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....355.94		100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	25.50	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	61.09	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0228 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....396.34		121.17
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	67.15	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0229 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....338.94		100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	23.80	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.69	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0230 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....370.14		111.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	25.91	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	62.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0231 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....419.34		121.17
For Sloped Roofs Up To 1 In 12 Pitch, Add	29.82	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	71.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0232 2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		



Thermal And Moisture Protection			07
Roof And Wall Specialties And Accessories			07 70
Roof Accessories			07 72

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0233	EA	26" x 26"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	257.55 17.68 43.43 3.30 24.30 35.30	80.78
07 72 13 00-0234	EA	26" x 50"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	283.75 19.29 47.66 4.95 39.95 46.95	90.87
07 72 13 00-0235	EA	26" x 98"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	319.75 22.89 54.86 9.15 58.15 64.15	90.87
07 72 13 00-0236	EA	38" x 62"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	312.75 22.19 53.46 7.80 51.80 65.80	90.87
07 72 13 00-0237	EA	38" x 74"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	325.75 23.49 56.06 9.30 57.30 70.30	90.87
07 72 13 00-0238	EA	38" x 98"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	365.94 26.50 63.09 12.00 65.00 85.00	100.97
07 72 13 00-0239	EA	50" x 50"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	319.75 22.89 54.86 8.10 52.10 63.10	90.87
07 72 13 00-0240	EA	50" x 74"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	372.94 27.20 64.49 11.55 46.55 80.55	100.97
07 72 13 00-0241	EA	51" x 99"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	415.34 29.42 70.95 15.45 71.45 96.45	121.17
07 72 13 00-0242	EA	62" x 62"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	351.94 25.10 60.29 12.30 45.30 83.30	100.97
07 72 13 00-0243	EA	62-3/8" x 74-3/8"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	385.14 27.41 65.92 14.10 63.10 94.10	111.07
07 72 13 00-0244	EA	62" x 98"	Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	436.34 31.52 75.15 18.30 67.30 117.30	121.17
07 72 13 00-0245	2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)				
07 72 13 00-0246	EA	26" x 26"	Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	263.55 18.28 44.63 3.30 24.30 35.30	80.78

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0247 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....291.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	20.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	49.26	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	
07 72 13 00-0248 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....331.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	24.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.26	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.15	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	58.15	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	64.15	
07 72 13 00-0249 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....321.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	23.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.26	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	7.80	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	51.80	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	65.80	
07 72 13 00-0250 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....337.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	24.69	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	58.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	57.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	70.30	
07 72 13 00-0251 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....378.94		100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.80	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	65.69	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.00	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.00	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	85.00	
07 72 13 00-0252 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....328.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	23.79	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	56.66	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	8.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	52.10	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	63.10	
07 72 13 00-0253 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....383.94		100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.30	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.69	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	46.55	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	80.55	
07 72 13 00-0254 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....427.34		121.17
For Sloped Roofs Up To 1 In 12 Pitch, Add	30.62	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	73.35	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.45	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	71.45	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	96.45	
07 72 13 00-0255 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....361.94		100.97
For Sloped Roofs Up To 1 In 12 Pitch, Add	26.10	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	62.29	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	12.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	45.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	83.30	
07 72 13 00-0256 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....396.14		111.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.51	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	68.12	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	14.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	63.10	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	94.10	
07 72 13 00-0257 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....449.34		121.17
For Sloped Roofs Up To 1 In 12 Pitch, Add	32.82	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	18.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	67.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	117.30	
07 72 13 00-0258 2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0259 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....275.55		80.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	19.48	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	47.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	3.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	24.30	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	35.30	
07 72 13 00-0260 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....297.75		90.87
For Sloped Roofs Up To 1 In 12 Pitch, Add	20.69	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	50.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	4.95	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	39.95	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	46.95	



Thermal And Moisture Protection			07
Roof And Wall Specialties And Accessories			07 70
Roof Accessories			07 72

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0261	EA		26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	340.75 24.99 59.06 9.15 58.15 64.15	90.87
07 72 13 00-0262	EA		38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	347.75 25.69 60.46 9.30 57.30 70.30	90.87
07 72 13 00-0263	EA		38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	416.94 31.60 73.29 12.00 65.00 85.00	100.97
07 72 13 00-0264	EA		50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	357.75 26.69 62.46 8.10 52.10 63.10	90.87
07 72 13 00-0265	EA		50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	418.94 31.80 73.69 11.55 46.55 80.55	100.97
07 72 13 00-0266	EA		51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	467.34 34.62 81.35 15.45 71.45 96.45	121.17
07 72 13 00-0267	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb..... For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	433.14 32.21 75.52 14.10 63.10 94.10	111.07

07 72 23 Relief Vents (07 72)**07 72 23 00-0001 Wind Driven Turbine Ventilators** (07 72 23)

Note: Excludes curb or flange base.

07 72 23 00-0002 Galvanized Steel, Wind Driven Turbine Ventilators (07 72 23 00-0001)

07 72 23 00-0003	EA		6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	103.78 131.29	32.23
07 72 23 00-0004	EA		9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	122.89 145.34	35.69
07 72 23 00-0005	EA		12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	135.69 165.77	42.59
07 72 23 00-0006	EA		15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	235.62 238.03	47.20
07 72 23 00-0007	EA		18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	316.02 260.00	52.95
07 72 23 00-0008	EA		21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	376.46 281.55	57.56
07 72 23 00-0009	EA		24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	474.92 337.65	64.46
07 72 23 00-0010	EA		36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	770.56 528.89	86.33

07 72 23 00-0011 Mill Finish Aluminum, Wind Driven Turbine Ventilators (07 72 23 00-0001)

07 72 23 00-0012	EA		6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	108.29 141.26	32.23
07 72 23 00-0013	EA		9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	132.70 156.37	35.69
07 72 23 00-0014	EA		12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	150.32 177.01	42.59
07 72 23 00-0015	EA		15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	250.14 273.75	47.20
07 72 23 00-0016	EA		18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	318.00 295.12	52.95
07 72 23 00-0017	EA		21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	396.36 329.61	57.56
07 72 23 00-0018	EA		24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	527.71 393.12	64.46
07 72 23 00-0019	EA		36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator For Curb Or Flange Base, Add	780.28 579.54	86.33

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0020 Stationary Siphon Ventilators (07 72 23) Note: Excludes curb or flange base.		
07 72 23 00-0021 Galvanized Steel, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0022 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	91.11	32.23
For Curb Or Flange Base, Add	131.29	
07 72 23 00-0023 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	115.64	35.69
For Curb Or Flange Base, Add	145.34	
07 72 23 00-0024 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	129.75	42.59
For Curb Or Flange Base, Add	165.77	
07 72 23 00-0025 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	203.09	47.20
For Curb Or Flange Base, Add	238.03	
07 72 23 00-0026 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	233.70	52.95
For Curb Or Flange Base, Add	260.00	
07 72 23 00-0027 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	318.28	57.56
For Curb Or Flange Base, Add	281.55	
07 72 23 00-0028 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	407.50	64.46
For Curb Or Flange Base, Add	337.65	
07 72 23 00-0029 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	585.59	86.33
For Curb Or Flange Base, Add	528.89	
07 72 23 00-0030 Mill Finish Aluminum, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0031 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	104.84	32.23
For Curb Or Flange Base, Add	141.26	
07 72 23 00-0032 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	134.76	35.69
For Curb Or Flange Base, Add	156.37	
07 72 23 00-0033 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	152.06	42.59
For Curb Or Flange Base, Add	177.01	
07 72 23 00-0034 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	233.87	47.20
For Curb Or Flange Base, Add	273.75	
07 72 23 00-0035 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	290.34	52.95
For Curb Or Flange Base, Add	295.12	
07 72 23 00-0036 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	351.41	57.56
For Curb Or Flange Base, Add	329.61	
07 72 23 00-0037 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	493.15	64.46
For Curb Or Flange Base, Add	393.12	
07 72 23 00-0038 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	736.11	86.33
For Curb Or Flange Base, Add	579.54	
07 72 23 00-0039 Spun Aluminum, Stationary Mushroom Gravity Ventilators (07 72 23) Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040 EA 8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	228.37	51.80
For Backdraft Damper, Add	93.87	
For Curb Base, Add	164.12	
07 72 23 00-0041 EA 10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	275.31	57.56
For Backdraft Damper, Add	102.71	
For Curb Base, Add	179.82	
07 72 23 00-0042 EA 12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	315.14	69.06
For Backdraft Damper, Add	140.26	
For Curb Base, Add	226.17	
07 72 23 00-0043 EA 16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	376.58	75.98
For Backdraft Damper, Add	160.14	
For Curb Base, Add	260.16	
07 72 23 00-0044 EA 24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	909.49	103.60
For Backdraft Damper, Add	201.00	
For Curb Base, Add	344.22	
07 72 23 00-0045 EA 30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	1,104.39	119.72
For Backdraft Damper, Add	237.44	
For Curb Base, Add	409.54	
07 72 23 00-0046 EA 36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	1,481.75	138.14
For Backdraft Damper, Add	237.44	
For Curb Base, Add	432.45	
07 72 23 00-0047 EA 42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	2,041.74	149.65
For Backdraft Damper, Add	248.49	
For Curb Base, Add	451.18	
07 72 23 00-0048 EA 48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	2,887.77	161.15
For Backdraft Damper, Add	276.10	
For Curb Base, Add	504.15	
07 72 23 00-0049 Galvanized Steel, Stationary Gooseneck Ventilators (07 72 23) Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050 EA 8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	356.07	57.56
07 72 23 00-0051 EA 12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	427.13	75.98
07 72 23 00-0052 EA 16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	608.52	103.60
07 72 23 00-0053 EA 24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	898.48	119.72

07 72 26 Ridge Vents (07 72)



Thermal And Moisture Protection			07
Roof And Wall Specialties And Accessories			07 70
Roof Accessories			07 72

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 26 00-0001			Aluminum Ridge Vents (07 72 26)		
07 72 26 00-0002	LF		Aluminum Ridge Vent Strips.....	9.34	3.34
07 72 26 00-0003	EA		Aluminum Ridge Univent Connectors	48.12	20.72
07 72 26 00-0004	EA		Aluminum Ridge Univent End Cap	46.97	20.72
07 72 26 00-0005			Galvanized Ridge Vents (07 72 26)		
07 72 26 00-0006	LF		Galvanized Sheet Metal Ridge Vent Strips.....	10.80	3.57
07 72 29			Rafter Vent (07 72)		
07 72 29 00-0001			Rafter Vent (07 72 29)		
			Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.		
07 72 29 00-0002	EA		22" x 4' Rafter Vent.....	8.00	
07 72 29 00-0003	EA		14" x 4' Rafter Vent.....	7.46	
07 72 33			Roof Hatches (07 72)		
			Note: Includes curb with integral insulation, lockable hatch and gaskets.		
07 72 33 00-0001			Galvanized Steel Cover And Curb (07 72 33)		
07 72 33 00-0002	EA		2'-6" x 3'-0" Galvanized Steel Roof Hatch (Bilco S-20)	940.72	142.39
07 72 33 00-0003	EA		2'-6" x 4'-6" Galvanized Steel Roof Hatch (Bilco NB-20).....	1,347.79	158.22
07 72 33 00-0004	EA		2'-6" x 8'-0" Galvanized Steel Roof Hatch (Bilco L-20).....	2,339.00	215.77
07 72 33 00-0005	EA		3'-0" x 3'-0" Galvanized Steel Roof Hatch (Bilco E-20)	1,322.55	158.22
07 72 33 00-0006	EA		4'-0" x 4'-0" Galvanized Steel Roof Hatch.....	1,490.57	175.82
07 72 33 00-0007	EA		3'-0" x 8'-0" Galvanized Steel Roof Hatch.....	2,415.50	239.80
07 72 33 00-0008			Aluminum Cover And Curb (07 72 33)		
07 72 33 00-0009	EA		2'-6" x 3'-0" Aluminum Roof Hatch (Bilco S-50)	1,056.01	142.39
07 72 33 00-0010	EA		2'-6" x 4'-6" Aluminum Roof Hatch (Bilco NB-50).....	1,365.32	158.22
07 72 33 00-0011	EA		2'-6" x 8'-0" Aluminum Roof Hatch (Bilco L-50).....	2,462.26	215.77
07 72 33 00-0012	EA		3'-0" x 3'-0" Aluminum Roof Hatch (Bilco E-50)	1,333.70	158.22
07 72 33 00-0013	EA		4'-0" x 4'-0" Aluminum Roof Hatch (Bilco F-50)	2,350.75	175.82
07 72 33 00-0014	EA		3'-0" x 8'-0" Aluminum Roof Hatch.....	2,593.49	239.80
07 72 33 00-0015	EA		3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight (Bilco GS-50)	1,489.55	158.22
07 72 33 00-0016			Steel, Plain, Primed (07 72 33)		
07 72 33 00-0017	EA		2'-6" x 3'-0" Plain Steel Roof Hatch Primed (Bilco S-20).....	905.85	142.39
07 72 33 00-0018	EA		2'-6" x 4'-6" Plain Steel Roof Hatch Primed (Bilco NB-20).....	1,202.97	158.22
07 72 33 00-0019	EA		2'-6" x 8'-0" Plain Steel Roof Hatch Primed (Bilco L-20).....	1,647.35	215.77
07 72 33 00-0020	EA		3'-0" x 3'-0" Plain Steel Roof Hatch Primed (Bilco E-20).....	1,116.67	158.22
07 72 33 00-0021	EA		4'-0" x 4'-0" Plain Steel Roof Hatch Primed	1,357.75	175.82
07 72 33 00-0022	EA		3'-0" x 8'-0" Plain Steel Roof Hatch Primed	1,844.36	239.80
07 72 33 00-0023			Stainless Steel (07 72 33)		
07 72 33 00-0024	EA		2'-6" x 3'-0" Stainless Steel Roof Hatch (Bilco S-90).....	2,301.93	142.39
07 72 33 00-0025	EA		2'-6" x 4'-6" Stainless Steel Roof Hatch (Bilco NB-90).....	4,374.66	158.22
07 72 33 00-0026	EA		2'-6" x 8'-0" Stainless Steel Roof Hatch (Bilco L-90).....	6,572.62	215.77
07 72 33 00-0027	EA		3'-0" x 3'-0" Stainless Steel Roof Hatch (Bilco E-90).....	3,516.16	158.22
07 72 33 00-0028	EA		4'-0" x 4'-0" Stainless Steel Roof Hatch	7,392.14	175.82
07 72 33 00-0029	EA		3'-0" x 8'-0" Stainless Steel Roof Hatch.....	8,289.58	239.80
07 72 33 00-0030			Remove And Reinstall Roof Hatch (07 72 33)		
			Note: Includes storage, cleaning and supply materials.		
07 72 33 00-0031	EA		Removal And Reinstallation Of Roof Hatch (All Types).....	437.99	
07 72 33 00-0032			Aluminum Cover And Galvanized Steel Curb (07 72 33)		
07 72 33 00-0033	EA		Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof (Bilco S-40)	1,024.13	158.22
07 72 33 00-0034	EA		Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof (Bilco NB-40).....	1,333.44	175.82
07 72 33 00-0035	EA		Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof (Bilco L-40).....	2,379.38	239.70
07 72 33 00-0036	EA		Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof (Bilco E-40)	1,308.20	163.16
07 72 33 00-0037	EA		Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof (Bilco F-40).....	2,280.62	180.76
07 72 33 00-0038			Roof Hatch Accessories (07 72 33)		
07 72 33 00-0039	EA		Roof Hatch Ladderup Safety Post (Bilco LU-1).....	601.00	74.17
07 72 36			Smoke Vents (07 72)		
07 72 36 00-0001			Fire Vent (07 72 36)		
07 72 36 00-0002			Galvanized Steel Covers And Curb (07 72 36 00-0001)		

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 36 00-0003 EA 4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848).....	2,269.85	131.91
07 72 36 00-0004 EA 4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872).....	2,622.94	181.36
07 72 36 00-0005 EA 4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890).....	2,986.38	197.88
07 72 36 00-0006 EA 4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896).....	3,047.70	207.76
07 72 36 00-0007 EA 5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060).....	3,512.87	181.36
07 72 36 00-0008 EA 5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072).....	3,736.84	197.88
07 72 36 00-0009 EA 5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084).....	3,947.49	214.39
07 72 36 00-0010 EA 5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096).....	4,490.23	230.90
07 72 36 00-0011 EA 5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120).....	5,557.64	247.32
07 72 36 00-0012 EA 5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666).....	3,741.61	214.39
07 72 36 00-0013 EA 5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114).....	7,800.53	263.83
07 72 36 00-0014 EA 6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272).....	4,325.32	280.34
07 72 36 00-0015 Aluminum Covers And Galvanized Steel Curb (07 72 36 00-0001)		
07 72 36 00-0016 EA 4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4848A).....	2,263.47	131.91
07 72 36 00-0017 EA 4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4872A).....	2,599.03	181.36
07 72 36 00-0018 EA 4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4890A).....	2,923.42	197.88
07 72 36 00-0019 EA 4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4896A).....	3,027.51	207.76
07 72 36 00-0020 EA 5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6060A).....	2,936.94	181.36
07 72 36 00-0021 EA 5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6072A).....	3,745.87	197.88
07 72 36 00-0022 EA 5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6084A).....	4,006.47	214.39
07 72 36 00-0023 EA 5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6096A).....	3,903.67	230.90
07 72 36 00-0024 EA 5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-60120A).....	5,471.30	247.32
07 72 36 00-0025 EA 5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6666A).....	3,783.32	214.39
07 72 36 00-0026 EA 5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-66144A).....	7,166.43	263.83
07 72 36 00-0027 EA 6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-7272A).....	3,722.82	280.34
07 72 36 00-0028 Aluminum Covers And Curb (07 72 36 00-0001)		
07 72 36 00-0029 EA 4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848B).....	2,467.49	131.91
07 72 36 00-0030 EA 4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872B).....	2,936.94	181.36
07 72 36 00-0031 EA 4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890B).....	3,223.07	197.88
07 72 36 00-0032 EA 4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896B).....	3,410.04	207.76
07 72 36 00-0033 EA 5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060B).....	3,089.96	181.36
07 72 36 00-0034 EA 5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072B).....	3,905.26	197.88
07 72 36 00-0035 EA 5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084B).....	4,146.73	214.39
07 72 36 00-0036 EA 5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096B).....	4,286.21	230.90
07 72 36 00-0037 EA 5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120B).....	5,197.15	247.32
07 72 36 00-0038 EA 5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666B).....	3,961.84	214.39
07 72 36 00-0039 EA 5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114B).....	7,823.11	263.83
07 72 36 00-0040 EA 6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272B).....	4,105.36	280.34
07 72 36 00-0041 Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb (07 72 36)		
07 72 36 00-0042 EA 4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4848B).....	2,441.99	131.52
07 72 36 00-0043 EA 4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4872B).....	3,096.32	181.36
07 72 36 00-0044 EA 4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4896B).....	3,276.14	207.76
07 72 36 00-0045 EA 5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6060B).....	3,510.74	181.36
07 72 36 00-0046 EA 5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6096B).....	3,712.42	230.90
07 72 46 Roof Walkways (07 72)		
07 72 46 00-0001 Recycled Rubber Walkway Pads (07 72 46)		
07 72 46 00-0002 SF 3/8" Thick, Button Surface, Recycled Rubber Walkway Pad For Diamond Surface, Add	7.28 0.55	1.96
07 72 46 00-0003 SF 1/2" Thick, Button Surface, Recycled Rubber Walkway Pad For Diamond Surface, Add	8.06 0.65	2.36
07 72 46 00-0004 SF 3/4" Thick, Button Surface, Recycled Rubber Walkway Pad For Diamond Surface, Add	8.89 0.72	2.36
07 72 53 Snow Guards (07 72)		
07 72 53 00-0001 Snow Guards For Shingle And Tile Roofs (07 72 53)		
07 72 53 00-0002 EA 6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs.....	13.17	1.91
07 72 53 00-0003 EA 6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs.....	14.35	1.91
07 72 53 00-0004 EA 6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs.....	13.57	1.91
07 72 53 00-0005 EA 6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs.....	8.14	1.91
07 72 53 00-0006 Snow Guards For Metal Roofs (07 72 53)		
Note: Aluminum construction.		
07 72 53 00-0007 EA Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	18.24	4.11



Thermal And Moisture Protection		07
Roof And Wall Specialties And Accessories		07 70
Roof Accessories		07 72

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 53 00-0008 EA Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	20.00	4.11
07 72 53 00-0009 EA Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	28.35	4.11
07 72 53 00-0010 EA Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	27.98	4.11
07 72 53 00-0011 EA Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	26.85	4.80
07 72 53 00-0012 EA Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	29.07	4.80
07 72 53 00-0013 EA Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	35.60	4.80
07 72 53 00-0014 EA Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	15.94	3.61
For Mechanically Fastened, Add	7.19	
07 72 53 00-0015 EA Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	17.77	3.61
For Mechanically Fastened, Add	7.19	
07 72 53 00-0016 EA Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	24.00	3.61
For Mechanically Fastened, Add	7.19	
07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15)	11.04	3.61
Note: Can be used for metal, rubber, PVC, TPO or glass roofing.		
For Mechanically Fastened, Add	9.59	
07 72 53 00-0018 Snow Breaker For Roofs (07 72 53)		
07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	13.07	4.80
07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	12.50	4.80
07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	12.22	4.80
07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	11.88	4.80
07 72 53 00-0023 Ice Breaker For Vents (07 72 53)		
07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened	86.22	
07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened	98.66	
07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs (07 72 53)		
07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps (07 72 53 00-0026)		
Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	46.71	14.39
07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	53.62	14.39
07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	59.13	14.39
07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	70.99	14.39
07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000)	74.94	17.27
07 72 53 00-0033 Tubing For Snow Guard Clamps (07 72 53 00-0026)		
07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®)	10.13	3.46
Note: Includes end caps, collars and couplings.		
07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®)	17.46	3.46
Note: Includes end caps, collars and couplings.		
07 72 56 Snow/Ice Melt (07 72)		
07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters (07 72 56)		
07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters	9.19	1.04
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters	9.84	1.04
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters	192.81	77.92
07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters	145.38	57.15
07 72 56 00-0006 EA Roof Clips For Self Regulating Heating Cable For Roofs And Gutters	17.38	3.12
For >5, Deduct	-3.12	
07 72 56 00-0007 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters	62.89	7.79
07 72 56 00-0008 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow	588.25	62.33
07 72 56 00-0009 EA Automatic Gutter Ice Melting Control	801.32	77.92
07 72 63 Waste Containment Assemblies (07 72)		
07 72 63 00-0001 Rooftop Oil And Grease Containment System (07 72 63)		
07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) (07 72 63 00-0001)		
07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E)	1,658.97	152.75
07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E)	1,842.83	152.75
07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E)	2,242.88	158.85
07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E)	2,232.37	158.85
07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E)	2,893.25	171.84

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E).....	2,281.07	171.84
07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E).....	2,549.94	203.61
07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E).....	3,727.36	254.55
07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E).....	4,589.12	254.55
07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E).....	5,771.42	254.55
07 72 63 00-0013 Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) (07 72 63 00-0001)		
07 72 63 00-0014 EA 48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100).....	2,018.87	152.75
07 72 63 00-0015 EA 60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101).....	2,257.96	152.75
07 72 63 00-0016 EA 60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106).....	2,770.98	158.85
07 72 63 00-0017 EA 72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102).....	2,818.29	158.85
07 72 63 00-0018 EA 72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103).....	3,988.85	171.84
07 72 63 00-0019 EA 72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111).....	4,364.56	171.84
07 72 63 00-0020 EA 90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105).....	4,084.31	203.61
07 72 63 00-0021 EA 108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112).....	4,615.39	254.55
07 72 63 00-0022 EA 120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107).....	5,737.27	254.55
07 72 63 00-0023 EA 144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113).....	7,274.26	254.55
07 72 63 00-0024 Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63)		
Note: Includes removing old filters and installing new filters.		
07 72 63 00-0025 Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0024)		
07 72 63 00-0026 Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0025)		
07 72 63 00-0027 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E).....	134.45	
07 72 63 00-0028 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E).....	187.00	
07 72 63 00-0029 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E).....	265.81	
07 72 63 00-0030 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E).....	247.18	
07 72 63 00-0031 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E).....	457.37	
07 72 63 00-0032 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E).....	462.62	
07 72 63 00-0033 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E).....	359.92	
07 72 63 00-0034 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E).....	465.01	
07 72 63 00-0035 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E).....	677.83	
07 72 63 00-0036 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E).....	890.64	
07 72 63 00-0037 Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0024)		
07 72 63 00-0038 Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0037)		
07 72 63 00-0039 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC).....	277.26	
07 72 63 00-0040 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC).....	366.60	
07 72 63 00-0041 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC).....	529.50	
07 72 63 00-0042 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC).....	495.09	
07 72 63 00-0043 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC).....	944.37	



Thermal And Moisture Protection			07	07
Roof And Wall Specialties And Accessories			07 70	
Roof Accessories			07 72	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0044 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC)	949.62	
07 72 63 00-0045 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC)	707.66	
07 72 63 00-0046 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC)	952.01	
07 72 63 00-0047 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC)	1,390.77	
07 72 63 00-0048 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC)	1,847.93	
07 72 63 00-0049 Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0037)		
07 72 63 00-0050 SET 48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C)	342.95	
07 72 63 00-0051 SET 60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C)	424.40	
07 72 63 00-0052 SET 60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C)	618.82	
07 72 63 00-0053 SET 72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C)	587.05	
07 72 63 00-0054 SET 72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C)	1,136.16	
07 72 63 00-0055 SET 72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C)	1,130.91	
07 72 63 00-0056 SET 90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C)	828.53	
07 72 63 00-0057 SET 108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C)	1,143.80	
07 72 63 00-0058 SET 120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C)	1,600.96	
07 72 63 00-0059 SET 144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C)	2,223.64	
07 73 Roof Protection Board (07 70)		
07 73 00 00-0001 Roof Protection Board (Georgia-Pacific DensDeck®) (07 73)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
07 73 00 00-0002 SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck®)	2.37	0.38
For No Adhesive, Deduct	-0.48	
For Hot-Mopped, Deduct	-0.08	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.39	
For Mechanically Fastened To Gypsum, Add	0.54	
07 73 00 00-0003 SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck®)	2.68	0.42
For No Adhesive, Deduct	-0.50	
For Hot-Mopped, Deduct	-0.06	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.45	
For Mechanically Fastened To Gypsum, Add	0.60	
07 73 00 00-0004 SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck®)	2.83	0.46
For No Adhesive, Deduct	-0.51	
For Hot-Mopped, Deduct	-0.05	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.49	
For Mechanically Fastened To Gypsum, Add	0.64	
07 73 00 00-0005 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck® Prime)	2.40	0.38
For No Adhesive, Deduct	-0.48	
For Hot-Mopped, Deduct	-0.08	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.39	
For Mechanically Fastened To Gypsum, Add	0.54	
07 73 00 00-0006 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck® Prime)	2.72	0.42
For No Adhesive, Deduct	-0.50	
For Hot-Mopped, Deduct	-0.06	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.45	
For Mechanically Fastened To Gypsum, Add	0.60	
07 73 00 00-0007 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck® Prime)	2.87	0.46
For No Adhesive, Deduct	-0.51	
For Hot-Mopped, Deduct	-0.05	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.14	
For Mechanically Fastened To Concrete, Add	0.49	
For Mechanically Fastened To Gypsum, Add	0.64	

07	Thermal And Moisture Protection
07 70	Roof And Wall Specialties And Accessories
07 73	Roof Protection Board



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 76 Roof Pavers (07 70)

07 76 16 Roof Decking Pavers (07 76)

07 76 16 00-0001 Roof Pavers (07 76 16)

Note: For walkway application over roofing system.

07 76 16 00-0002	SF	Up To 100 SF, 2" Concrete Roof Paver	10.83	5.11
		For 1-1/2" Thickness, Deduct	-0.89	
		For 2-1/2" Thickness, Add	0.89	
		For 3" Thickness, Add	1.77	
07 76 16 00-0003	SF	>100 To 200 SF, 2" Concrete Roof Paver	9.25	3.85
		For 1-1/2" Thickness, Deduct	-0.74	
		For 2-1/2" Thickness, Add	0.74	
		For 3" Thickness, Add	1.48	
07 76 16 00-0004	SF	>200 To 400 SF, 2" Concrete Roof Paver	7.95	3.07
		For 1-1/2" Thickness, Deduct	-0.62	
		For 2-1/2" Thickness, Add	0.62	
		For 3" Thickness, Add	1.24	
07 76 16 00-0005	SF	>400 To 1,000 SF, 2" Concrete Roof Paver	7.13	2.67
		For 1-1/2" Thickness, Deduct	-0.55	
		For 2-1/2" Thickness, Add	0.55	
		For 3" Thickness, Add	1.09	
07 76 16 00-0006	SF	>1,000 SF, 2" Concrete Roof Paver.....	6.57	2.44
		For 1-1/2" Thickness, Deduct	-0.50	
		For 2-1/2" Thickness, Add	0.50	
		For 3" Thickness, Add	1.00	

07 76 16 00-0007 Roof Paver Pedestal (07 76 16)

07 76 16 00-0008	EA	2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator).....	13.91	0.76
07 76 16 00-0009	EA	3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator)	14.67	0.76
07 76 16 00-0010	EA	4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator)	15.44	0.76
07 76 16 00-0011	EA	Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator)	7.61	0.76
07 76 16 00-0012	EA	Stay Bar, Used With Roof Paver Pedestals >16" High (Hanover Elevator)	7.19	0.76
07 76 16 00-0013	EA	5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal)	7.34	0.76
		Note: Stackable.		
07 76 16 00-0014	EA	1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal	4.09	0.76
		Note: Used with High Tab and Elevator pedestals.		
07 76 16 00-0015	EA	Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator)	5.69	0.76
		Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.		

07 76 19 Composite Insulation Concrete Protection Board (07 76)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0001 Composite Insulation Concrete Protection Board (07 76 19)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0002	SF	2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF.....	3.34	
		For 20 Year Warranty, Deduct	-0.18	
		For 15 Year Warranty, Deduct	-0.36	
		For 10 Year Warranty, Deduct	-0.49	
		For Winds >90 MPH To 120 MPH Warranty, Add	0.10	
07 76 19 00-0003	SF	3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF.....	4.29	
		For 20 Year Warranty, Deduct	-0.26	
		For 15 Year Warranty, Deduct	-0.52	
		For 10 Year Warranty, Deduct	-0.70	
		For Winds >90 MPH To 120 MPH Warranty, Add	0.10	
07 76 19 00-0004	SF	2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	5.06	
		For 20 Year Warranty, Deduct	-0.30	
		For 15 Year Warranty, Deduct	-0.60	
		For 10 Year Warranty, Deduct	-0.81	
		For Winds >90 MPH To 120 MPH Warranty, Add	0.10	
07 76 19 00-0005	SF	3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	6.07	
		For 20 Year Warranty, Deduct	-0.38	
		For 15 Year Warranty, Deduct	-0.75	
		For 10 Year Warranty, Deduct	-1.02	
		For Winds >90 MPH To 120 MPH Warranty, Add	0.10	

07 80 Fire And Smoke Protection (07)

07 81 Applied Fireproofing (07 80)

Note: Includes bonding agents as required.

07 81 16 Cementitious Fireproofing (07 81)

07 81 16 00-0001 Cementitious Fireproofing (07 81 16)

07 81 16 00-0002 Spray On Ceiling (Metal Decking Corrugated Or Fluted) (07 81 16 00-0001)

07 81 16 00-0003	SF	Spray Fireproofing For Ceiling, 1 Hour Rated 1/2" Thick Coverage.....	1.07	0.60
07 81 16 00-0004	SF	Spray Fireproofing For Ceiling, 2 Hour Rated 7/8" Thick Coverage.....	1.49	0.72



Thermal And Moisture Protection		07	07
Fire And Smoke Protection		07 80	
Applied Fireproofing		07 81	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 16 00-0005 Spray On Roofs And Beams (07 81 16 00-0001)		
07 81 16 00-0006 SF Spray Fireproofing For Beams And Roofs, 1 Hour Rated 1-3/8" Thick Coverage	2.18	0.88
07 81 16 00-0007 SF Spray Fireproofing For Beams And Roofs, 2 Hour Rated 1-1/2" Thick Coverage	2.36	0.96
07 81 16 00-0008 SF Spray Fireproofing For Beams And Roofs, 2 Hour Rated 1-5/8" Thick Coverage	2.47	0.99
07 81 16 00-0009 Spray On Beams (Min. W8x24) (07 81 16 00-0001)		
07 81 16 00-0010 SF Spray Fireproofing For Beams, 1 Hour Rated 7/16" Thick Coverage (Min W8x24)	0.91	0.48
07 81 16 00-0011 SF Spray Fireproofing For Beams, 2 Hour Rated 1/2" Thick Coverage (Min W8x24)	1.12	0.60
07 81 16 00-0012 SF Spray Fireproofing For Beams, 3 Hour Rated 7/8" Thick Coverage (Min W8x24)	1.59	0.72
07 81 16 00-0013 SF Spray Fireproofing For Beams, 4 Hour Rated 1-1/4" Thick Coverage (Min W8x24)	2.09	0.84
07 81 16 00-0014 Spray On Columns (W10x49) (07 81 16 00-0001)		
07 81 16 00-0015 SF Spray Fireproofing For Columns, 1 Hour Rated 1-3/16" Thick Coverage (W10x49)	2.06	0.79
07 81 16 00-0016 SF Spray Fireproofing For Columns, 2 Hour Rated 1-1/4" Thick Coverage (W10x49)	2.23	0.84
07 81 16 00-0017 SF Spray Fireproofing For Columns, 3 Hour Rated 1-7/8" Thick Coverage (W10x49)	2.87	0.99
07 81 16 00-0018 SF Spray Fireproofing For Columns, 4 Hour Rated 2-1/2" Thick Coverage (W10x49)	3.73	1.20
07 81 16 00-0019 Spray On Columns (W14x228) (07 81 16 00-0001)		
07 81 16 00-0020 SF Spray Fireproofing For Columns, 2 Hour Rated 5/8" Thick Coverage (W14x228)	1.32	0.60
07 81 16 00-0021 SF Spray Fireproofing For Columns, 3 Hour Rated 7/8" Thick Coverage (W14x228)	1.69	0.72
07 81 16 00-0022 SF Spray Fireproofing For Columns, 4 Hour Rated 1-1/4" Thick Coverage (W14x228)	2.23	0.88
07 81 16 00-0023 Gunite Fireproofing (07 81 16)		
07 81 16 00-0024 SF Fireproofing, Gunite, Non Reinforced, 1" Thick	2.34	0.57
07 81 16 00-0025 SF Fireproofing, Gunite, Reinforced, 1" Thick	3.28	0.57
07 81 16 00-0026 Monokote Fireproofing (07 81 16)		
07 81 16 00-0027 CSF Monokote Fireproofing For Structural Steel	234.41	91.22
Note: Per inch of thickness.		
07 81 16 00-0028 CSF Monokote Fireproofing For Columns	218.30	1.20
Note: Per inch of thickness.		
07 81 16 00-0029 CSF Monokote Fireproofing For Ceiling/Decking	167.29	61.09
Note: Per inch of thickness.		
07 81 23 Intumescent Fireproofing (07 81)		
07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF) (07 81 23)		
07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) (07 81 23 00-0001)		
Note: Excludes primer.		
07 81 23 00-0003 SF 1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	9.10	
For >10,000, Deduct		
	-0.86	
07 81 23 00-0004 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	14.45	
For >10,000, Deduct		
	-1.39	
07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) (07 81 23 00-0001)		
Note: Excludes primer.		
07 81 23 00-0006 SF 1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	6.05	
For >10,000, Deduct		
	-0.55	
07 81 23 00-0007 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	13.01	
For >10,000, Deduct		
	-1.24	
07 81 23 00-0008 SF 2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	28.99	
For >10,000, Deduct		
	-2.84	
07 81 23 00-0009 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	39.79	
For >10,000, Deduct		
	-3.91	
07 81 23 00-0010 SF 3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	50.58	
For >10,000, Deduct		
	-4.99	
07 81 23 00-0011 SF 3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	61.40	
For >10,000, Deduct		
	-6.06	
07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) (07 81 23 00-0001)		
Note: Excludes primer.		
07 81 23 00-0013 SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	11.86	
For >10,000, Deduct		
	-1.13	
07 81 23 00-0014 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	21.77	
For >10,000, Deduct		
	-2.12	
07 81 23 00-0015 SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	34.35	
For >10,000, Deduct		
	-3.37	
07 81 23 00-0016 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	47.85	
For >10,000, Deduct		
	-4.72	

07 Thermal And Moisture Protection**07 80 Fire And Smoke Protection****07 81 Applied Fireproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 23 00-0017	SF		3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)..... <i>For >10,000, Deduct</i>	60.43 -5.97	
07 81 23 00-0018			Intumescent Thin Film Fireproofing (Albi Clad FP) (07 81 23)		
07 81 23 00-0019			Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) (07 81 23 00-0018) Note: Excludes primer.		
07 81 23 00-0020	SF		1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	5.76 -0.54	
07 81 23 00-0021	SF		1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	12.83 -1.24	
07 81 23 00-0022	SF		2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	29.10 -2.86	
07 81 23 00-0023	SF		2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	40.07 -3.96	
07 81 23 00-0024	SF		3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	51.06 -5.05	
07 81 33			Mineral-Fiber Fireproofing (07 81)		
07 81 33 00-0001			Cellulose Fireproofing (07 81 33)		
07 81 33 00-0002	SF		Cellulose Fireproofing, Per Inch Of Thickness.....	1.84	0.57
07 82			Board Fireproofing (07 80) Note: Type A: 1 hour rating.		
07 82 00 00-0001			Fireproofing On Columns (07 82)		
07 82 00 00-0002			Up To 4,500 SF, Fireproofing On Columns (07 82 00 00-0001)		
07 82 00 00-0003	CSF		Lath And Cement Plaster, 1 Hour, Mk A, Up To 4,500 SF, Fireproofing On Columns.....	1,219.64	855.20
07 82 00 00-0004	CSF		Lath And Cement Plaster, 2 Hour, Mk B, Up To 4,500 SF, Fireproofing On Columns.....	2,195.32	1,527.15
07 82 00 00-0005	CSF		Lath And Vermiculite Concrete, 4 Hour, Mk C, Up To 4,500 SF, Fireproofing On Columns.....	1,946.05	1,343.90
07 82 00 00-0006	CSF		Lath And Gypsum Plaster, 4 Hour, Mk D, Up To 4,500 SF, Fireproofing On Columns.....	1,312.52	794.12
07 82 00 00-0007	CSF		Lath And Gypsum Plaster, 4 Hour, Mk E, Up To 4,500 SF, Fireproofing On Columns.....	1,027.29	671.94
07 82 00 00-0008	CSF		Gypsum Board, 2 Hour, Mk F, Up To 4,500 SF, Fireproofing On Columns.....	1,551.57	1,038.46
07 82 00 00-0009	CSF		Gypsum Board, 2 Hour, Mk G, Up To 4,500 SF, Fireproofing On Columns.....	883.61	549.77
07 82 00 00-0010			>4,500 SF, Fireproofing On Columns (07 82 00 00-0001)		
07 82 00 00-0011	CSF		Lath And Cement Plaster, 1 Hour, Mk A >4,500 SF, Fireproofing On Columns.....	1,244.47	855.20
07 82 00 00-0012	CSF		Lath And Cement Plaster, 2 Hour, Mk B, >4,500 SF, Fireproofing On Columns.....	2,244.97	1,527.15
07 82 00 00-0013	CSF		Lath And Vermiculite Concrete, 4 Hour, Mk C, >4,500 SF, Fireproofing On Columns.....	2,072.71	1,343.90
07 82 00 00-0014	CSF		Lath And Gypsum Plaster, 4 Hour, Mk D, >4,500 SF, Fireproofing On Columns.....	1,162.35	794.12
07 82 00 00-0015	CSF		Lath And Gypsum Plaster, 2 Hour, Mk E, >4,500 SF, Fireproofing On Columns.....	949.85	671.94
07 82 00 00-0016	CSF		Gypsum Board, 2 Hour, Mk F, >4,500 SF, Fireproofing On Columns.....	1,533.08	1,038.46
07 82 00 00-0017	CSF		Gypsum Board, 2 Hour, Mk G, >4,500 SF, Fireproofing On Columns.....	866.87	549.77
07 84			Firestopping (07 80)		
07 84 13			Penetration Firestopping (07 84)		
07 84 13 16			Penetration Firestopping Devices (07 84 13)		
07 84 13 16-0001			Firestopping Systems For Cable Penetrations (07 84 13 16)		
07 84 13 16-0002			Intumescent Firestop Cable Sleeve For New Installations (07 84 13 16-0001) Note: Includes putty, escutcheon plates, gaskets and bushings.		
07 84 13 16-0003	EA		1" Diameter Intumescent Firestop Sleeve (STI FS100).....	49.00	
07 84 13 16-0004	EA		2" Diameter Intumescent Firestop Sleeve (STI FS201).....	65.40	
07 84 13 16-0005	EA		4" Diameter Intumescent Firestop Sleeve (STI FS401).....	105.32	
07 84 13 16-0006			Intumescent Firestop Cable Pathway For New Or Existing Cable Installations (07 84 13 16-0001) Note: Includes putty and mounting plates.		
07 84 13 16-0007	EA		1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22).....	88.26	
07 84 13 16-0008	EA		3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS).....	153.98	
07 84 13 16-0009	EA		4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44).....	280.94	
07 84 13 16-0010			3M Intumescent Firestopping Multi-Trade Pass Through Device (07 84 13 16)		
07 84 13 16-0011	EA		2.5" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD).....	199.17	

**Thermal And Moisture Protection 07****Fire And Smoke Protection 07 80****Firestopping 07 84****07**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 16-0012	EA	4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD)	184.68		
07 84 13 16-0013	EA	4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD).....	190.18		
07 84 13 16-0014 Intumescent Firestopping Pipe Collar (07 84 13 16)					
07 84 13 16-0015	EA	1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5)	34.90		11.14
07 84 13 16-0016	EA	2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0)	40.97		11.14
07 84 13 16-0017	EA	3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0)	47.32		12.26
07 84 13 16-0018	EA	4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0)	71.53		13.93
07 84 13 16-0019	EA	8" Intumescent Firestop Pipe Collar (Hilti CP644 8")	326.49		16.71
07 84 13 16-0020	EA	10" Intumescent Firestop Pipe Collar (Hilti CP644 10")	420.25		18.39
07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) (07 84 13 16)					
Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.					
07 84 13 16-0022	EA	12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9).....	109.49		
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.					
07 84 13 16-0023	EA	15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9).....	114.77		
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.					
07 84 13 16-0024	EA	11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH)	210.43		
Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.					
07 84 13 16-0025	EA	14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3).....	137.99		
Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.					
07 84 13 16-0026 Intumescent Firestopping Wrap Strips (07 84 13 16)					
07 84 13 16-0027	LF	1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series).....	4.90		
07 84 13 19 Penetration Firestopping Caulk (07 84 13)					
07 84 13 19-0001 Intumescent Firestopping For Sealing Pipe Penetrations (07 84 13 19)					
Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.					
07 84 13 19-0002	EA	1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant	18.21		
For Intumescent Sealant For Plastic Pipe, Add			0.05		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.02		
07 84 13 19-0003	EA	1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant	22.39		
For Intumescent Sealant For Plastic Pipe, Add			0.28		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.10		
07 84 13 19-0004	EA	1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant	22.21		
For Intumescent Sealant For Plastic Pipe, Add			0.20		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.08		
07 84 13 19-0005	EA	1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant	21.92		
For Intumescent Sealant For Plastic Pipe, Add			0.09		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.03		
07 84 13 19-0006	EA	2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant	25.88		
For Intumescent Sealant For Plastic Pipe, Add			0.59		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.22		
07 84 13 19-0007	EA	2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant	25.71		
For Intumescent Sealant For Plastic Pipe, Add			0.52		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.20		
07 84 13 19-0008	EA	2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant	25.42		
For Intumescent Sealant For Plastic Pipe, Add			0.40		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.15		
07 84 13 19-0009	EA	2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant	24.97		
For Intumescent Sealant For Plastic Pipe, Add			0.22		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.08		
07 84 13 19-0010	EA	2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant	24.58		
For Intumescent Sealant For Plastic Pipe, Add			0.07		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.03		
07 84 13 19-0011	EA	2.5" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant	31.40		
For Intumescent Sealant For Plastic Pipe, Add			0.99		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.37		
07 84 13 19-0012	EA	2.5" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant	31.23		
For Intumescent Sealant For Plastic Pipe, Add			0.92		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.35		
07 84 13 19-0013	EA	2.5" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant	30.94		
For Intumescent Sealant For Plastic Pipe, Add			0.80		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.30		
07 84 13 19-0014	EA	2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant	30.49		
For Intumescent Sealant For Plastic Pipe, Add			0.62		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.23		
07 84 13 19-0015	EA	2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant	30.11		
For Intumescent Sealant For Plastic Pipe, Add			0.47		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.18		
07 84 13 19-0016	EA	2.5" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant	29.20		
For Intumescent Sealant For Plastic Pipe, Add			0.11		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			0.04		
07 84 13 19-0017	EA	3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant	42.82		
For Intumescent Sealant For Plastic Pipe, Add			2.66		
For Silicone Sealant (Bio Fireshield BFS 100 or 200), add			1.00		

07 Thermal And Moisture Protection**07 80 Fire And Smoke Protection****07 84 Firestopping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0018	EA	3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant.....	39.69	
		For Intumescent Sealant For Plastic Pipe, Add	1.41	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.53	
07 84 13 19-0019	EA	3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant	39.40	
		For Intumescent Sealant For Plastic Pipe, Add	1.30	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.49	
07 84 13 19-0020	EA	3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant	38.95	
		For Intumescent Sealant For Plastic Pipe, Add	1.12	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.42	
07 84 13 19-0021	EA	3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant	38.57	
		For Intumescent Sealant For Plastic Pipe, Add	0.96	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.36	
07 84 13 19-0022	EA	3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant	37.66	
		For Intumescent Sealant For Plastic Pipe, Add	0.60	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.23	
07 84 13 19-0023	EA	3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant	36.49	
		For Intumescent Sealant For Plastic Pipe, Add	0.13	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.05	
07 84 13 19-0024	EA	4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant.....	57.50	
		For Intumescent Sealant For Plastic Pipe, Add	4.92	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.85	
07 84 13 19-0025	EA	4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant.....	57.18	
		For Intumescent Sealant For Plastic Pipe, Add	4.79	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.80	
07 84 13 19-0026	EA	4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant	56.66	
		For Intumescent Sealant For Plastic Pipe, Add	4.58	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.72	
07 84 13 19-0027	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant	55.85	
		For Intumescent Sealant For Plastic Pipe, Add	4.26	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.60	
07 84 13 19-0028	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant	55.16	
		For Intumescent Sealant For Plastic Pipe, Add	3.98	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.49	
07 84 13 19-0029	EA	4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant	49.83	
		For Intumescent Sealant For Plastic Pipe, Add	1.85	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.69	
07 84 13 19-0030	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant	48.66	
		For Intumescent Sealant For Plastic Pipe, Add	1.38	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.52	
07 84 13 19-0031	EA	4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant	46.87	
		For Intumescent Sealant For Plastic Pipe, Add	0.67	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	0.25	
07 84 13 19-0032	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant.....	91.65	
		For Intumescent Sealant For Plastic Pipe, Add	11.35	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	4.26	
07 84 13 19-0033	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant.....	91.34	
		For Intumescent Sealant For Plastic Pipe, Add	11.22	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	4.21	
07 84 13 19-0034	EA	6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant	90.82	
		For Intumescent Sealant For Plastic Pipe, Add	11.02	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	4.13	
07 84 13 19-0035	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant	90.01	
		For Intumescent Sealant For Plastic Pipe, Add	10.69	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	4.01	
07 84 13 19-0036	EA	6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant	89.32	
		For Intumescent Sealant For Plastic Pipe, Add	10.42	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	3.91	
07 84 13 19-0037	EA	6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant	87.69	
		For Intumescent Sealant For Plastic Pipe, Add	9.76	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	3.66	
07 84 13 19-0038	EA	6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant	85.58	
		For Intumescent Sealant For Plastic Pipe, Add	8.92	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	3.35	
07 84 13 19-0039	EA	6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant	82.38	
		For Intumescent Sealant For Plastic Pipe, Add	7.64	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	2.87	
07 84 13 19-0040	EA	6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant	70.32	
		For Intumescent Sealant For Plastic Pipe, Add	2.82	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.06	
07 84 13 19-0041	EA	8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant	121.65	
		For Intumescent Sealant For Plastic Pipe, Add	17.92	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	6.72	
07 84 13 19-0042	EA	8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant	118.44	
		For Intumescent Sealant For Plastic Pipe, Add	16.64	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	6.24	
07 84 13 19-0043	EA	8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant	112.01	
		For Intumescent Sealant For Plastic Pipe, Add	14.07	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	5.28	
07 84 13 19-0044	EA	8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant	85.79	
		For Intumescent Sealant For Plastic Pipe, Add	3.58	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	1.34	
07 84 13 19-0045	EA	10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant.....	154.52	
		For Intumescent Sealant For Plastic Pipe, Add	25.65	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	9.62	



Thermal And Moisture Protection		07	07
Fire And Smoke Protection		07 80	
Firestopping		07 84	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
07 84 13 19-0046	EA 10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant For Intumescent Sealant For Plastic Pipe, Add For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	135.45 18.02 6.76		
07 84 13 19-0047	EA 10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant For Intumescent Sealant For Plastic Pipe, Add For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	101.80 4.56 1.71		
07 84 13 19-0048	Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations (07 84 13 19) Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.			
07 84 13 19-0049	EA 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	21.94		
07 84 13 19-0050	EA 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	21.87		
07 84 13 19-0051	EA 1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	21.78		
07 84 13 19-0052	EA 2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.90		
07 84 13 19-0053	EA 2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.83		
07 84 13 19-0054	EA 2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.74		
07 84 13 19-0055	EA 2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.60		
07 84 13 19-0056	EA 2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.48		
07 84 13 19-0057	EA 2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.78		
07 84 13 19-0058	EA 2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.72		
07 84 13 19-0059	EA 2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.62		
07 84 13 19-0060	EA 2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.49		
07 84 13 19-0061	EA 2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.36		
07 84 13 19-0062	EA 2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	29.05		
07 84 13 19-0063	EA 3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.42		
07 84 13 19-0064	EA 3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.36		
07 84 13 19-0065	EA 3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.27		
07 84 13 19-0066	EA 3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.12		
07 84 13 19-0067	EA 3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.00		
07 84 13 19-0068	EA 3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	36.69		
07 84 13 19-0069	EA 3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	36.26		
07 84 13 19-0070	EA 4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.55		
07 84 13 19-0071	EA 4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.48		
07 84 13 19-0072	EA 4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.39		
07 84 13 19-0073	EA 4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.24		
07 84 13 19-0074	EA 4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.09		
07 84 13 19-0075	EA 4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	46.78		
07 84 13 19-0076	EA 4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	46.38		
07 84 13 19-0077	EA 4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	45.76		
07 84 13 19-0078	EA 6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	68.69		
07 84 13 19-0079	EA 6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	68.62		
07 84 13 19-0080	EA 6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	68.53		
07 84 13 19-0081	EA 6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	68.39		
07 84 13 19-0082	EA 6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	68.27		
07 84 13 19-0083	EA 6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	67.96		
07 84 13 19-0084	EA 6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	67.52		

07 Thermal And Moisture Protection**07 80 Fire And Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0085	EA		6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	66.94	
07 84 13 19-0086	EA		6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	65.67	
07 84 13 19-0087	EA		8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	85.39	
07 84 13 19-0088	EA		8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	84.80	
07 84 13 19-0089	EA		8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	83.53	
07 84 13 19-0090	EA		8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	79.94	
07 84 13 19-0091	EA		10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	102.63	
07 84 13 19-0092	EA		10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	99.04	
07 84 13 19-0093	EA		10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	94.28	

07 84 16 Annular Space Protection (07 84)**07 84 16 00-0001 Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)****07 84 16 00-0002 Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)**

07 84 16 00-0003	EA		1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	27.72	
07 84 16 00-0004	EA		2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	39.17	
07 84 16 00-0005	EA		3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	40.98	
07 84 16 00-0006	EA		4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	42.78	
07 84 16 00-0007	EA		5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	44.59	
07 84 16 00-0008	EA		6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	56.05	

07 84 16 00-0009 Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)

07 84 16 00-0010	EA		Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....	11.37	
07 84 16 00-0011	EA		Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....	11.77	
07 84 16 00-0012	EA		Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272).....	11.02	
07 84 16 00-0013	EA		Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270).....	11.80	
07 84 16 00-0014	EA		Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....	11.50	
07 84 16 00-0015	EA		Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....	11.07	

07 84 16 00-0016 Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)

07 84 16 00-0017	EA		2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249).....	27.50	
07 84 16 00-0018	EA		2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269).....	29.48	
07 84 16 00-0019	EA		3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369).....	31.92	

07 84 16 00-0020 Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)

Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.

07 84 16 00-0021	EA		16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28).....	252.44	
07 84 16 00-0022	EA		36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....	353.85	
07 84 16 00-0023	EA		36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....	477.17	

07 84 16 00-0024 Endothermic Mat Wrap Fire Barrier (07 84 16)

Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.

07 84 16 00-0025	SF		0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4).....	38.70	
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07 84 16 00-0026 Firestopping Caulk For Filling Opening (07 84 16)

07 84 16 00-0027	GAL		Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+).....	141.96	
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07 84 16 00-0028 Firestopping Mortar For Filling Opening (07 84 16)

07 84 16 00-0029	CF		Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series).....	127.64	
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07 84 23 Silicone Firestopping Foams (07 84)**07 84 23 00-0001 Silicone RTV Foam Seal For Blank Openings (07 84 23)**

07 84 23 00-0002	EA		2" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	34.90	
07 84 23 00-0003	EA		4" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	83.80	
07 84 23 00-0004	EA		6" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	148.33	
07 84 23 00-0005	EA		8" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	226.52	
07 84 23 00-0006	EA		10" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	322.94	
07 84 23 00-0007	EA		12" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	433.10	

07 84 43 Joint Firestopping (07 84)



Thermal And Moisture Protection			07	07
Fire And Smoke Protection			07 80	
Firestopping			07 84	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
07 84 43 00-0001 Intumescent Firestopping Sealant For Joints (07 84 43)					
07 84 43 00-0002	CLF 1/4" x 1/4" Joint, Intumescent Firestop Sealant	357.54		144.62	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	10.24			
07 84 43 00-0003	CLF 1/4" x 3/8" Joint, Intumescent Firestop Sealant	409.72		153.67	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	15.36			
07 84 43 00-0004	CLF 1/4" x 1/2" Joint, Intumescent Firestop Sealant	443.85		153.67	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	20.48			
07 84 43 00-0005	CLF 3/8" x 3/8" Joint, Intumescent Firestop Sealant	460.92		153.67	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	23.04			
07 84 43 00-0006	CLF 3/8" x 1/2" Joint, Intumescent Firestop Sealant	512.13		153.67	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	30.72			
07 84 43 00-0007	CLF 3/8" x 5/8" Joint, Intumescent Firestop Sealant	581.47		162.72	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	38.40			
07 84 43 00-0008	CLF 3/8" x 3/4" Joint, Intumescent Firestop Sealant	650.69		171.75	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	46.09			
07 84 43 00-0009	CLF 1/2" x 1/2" Joint, Intumescent Firestop Sealant	598.54		162.72	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	40.97			
07 84 43 00-0010	CLF 1/2" x 5/8" Joint, Intumescent Firestop Sealant	702.96		180.79	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	51.21			
07 84 43 00-0011	CLF 1/2" x 3/4" Joint, Intumescent Firestop Sealant	789.33		189.84	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	61.45			
07 84 43 00-0012	CLF 1/2" x 7/8" Joint, Intumescent Firestop Sealant	875.66		198.86	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	71.69			
07 84 43 00-0013	CLF 1/2" x 1" Joint, Intumescent Firestop Sealant	1,088.66		271.16	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	81.93			
07 84 43 00-0014	CLF 3/4" x 3/4" Joint, Intumescent Firestop Sealant	1,193.05		289.28	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	92.17			
07 84 43 00-0015	CLF 1" x 1" Joint, Intumescent Firestop Sealant	1,688.99		298.29	
	For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	163.86			
07 84 43 00-0016 Passive Smoke And Fire Protection Sealant For Joints (07 84 43)					
07 84 43 00-0017	CLF 1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	329.01		144.62	
07 84 43 00-0018	CLF 1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	366.90		153.67	
07 84 43 00-0019	CLF 1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	386.77		153.67	
07 84 43 00-0020	CLF 3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	396.70		153.67	
07 84 43 00-0021	CLF 3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	426.50		153.67	
07 84 43 00-0022	CLF 3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	474.44		162.72	
07 84 43 00-0023	CLF 3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	522.25		171.75	
07 84 43 00-0024	CLF 1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	484.38		162.72	
07 84 43 00-0025	CLF 1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	560.25		180.79	
07 84 43 00-0026	CLF 1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	618.08		189.84	
07 84 43 00-0027	CLF 1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	675.87		198.86	
07 84 43 00-0028	CLF 1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	860.33		271.16	
07 84 43 00-0029	CLF 3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	936.17		289.28	
07 84 43 00-0030	CLF 1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	1,232.33		298.29	
07 84 56 Fire Safing (07 84)					
07 84 56 13 Fibrous Fire Safing (07 84 56)					
07 84 56 13-0001 Thermal Barrier Wrap (07 84 56 13)					
Note: Includes cutting wrap to fit pipe or conduit and sealing edges.					
07 84 56 13-0002	SF 1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A)	8.84			
	For Work In Restricted Working Space, Add	1.36			
07 84 56 13-0003	SF 1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A)	13.49			
	Note: Includes cutting wrap to fit pipe or conduit and sealing edges.				
	For Work In Restricted Working Space, Add	1.36			
07 84 56 13-0004	SF 2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A)	14.61			
	Note: Includes cutting wrap to fit pipe or conduit and sealing edges.				
	For Work In Restricted Working Space, Add	1.36			
07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing (07 84 56 13)					
07 84 56 13-0006	SF 1/2" Thermal Ceramics FireMaster Blanket Wrap	15.21		9.12	
	For Work In Restricted Working Space, Add	3.66			
	For >500 To 5,000, Deduct	-1.30			
	For >5,000, Deduct	-2.33			

07 Thermal And Moisture Protection**07 80 Fire And Smoke Protection****07 84 Firestopping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 56 13-0007 SF 1" Thermal Ceramics FireMaster Blanket Wrap..... <i>For Work In Restricted Working Space, Add</i> <i>For >500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	17.69 3.66 -1.87 -3.25	9.12
07 84 56 13-0008 SF 1-1/2" Thermal Ceramics FireMaster Blanket Wrap..... <i>For Work In Restricted Working Space, Add</i> <i>For >500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	20.41 3.66 -2.50 -4.26	9.12
07 84 56 13-0009 SF 2" Thermal Ceramics FireMaster Blanket Wrap..... <i>For Work In Restricted Working Space, Add</i> <i>For >500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	23.13 3.66 -3.12 -5.26	9.12

07 90 Joint Protection ⁽⁰⁷⁾**07 91 Preformed Joint Seals** ^(07 90)**07 91 23 Backer Rods** ^(07 91)**07 91 23 00-0001 Backer Rods** ^(07 91 23)

07 91 23 00-0002 LF 1/4" Polyethylene Or Polyurethane Backer Rod	1.23	0.38
07 91 23 00-0003 LF 3/8" Polyethylene Or Polyurethane Backer Rod	1.32	0.38
07 91 23 00-0004 LF 1/2" Polyethylene Or Polyurethane Backer Rod	1.42	0.38
07 91 23 00-0005 LF 5/8" Polyethylene Or Polyurethane Backer Rod	1.51	0.38
07 91 23 00-0006 LF 3/4" Polyethylene Or Polyurethane Backer Rod	1.57	0.46
07 91 23 00-0007 LF 7/8" Polyethylene Or Polyurethane Backer Rod	1.65	0.46
07 91 23 00-0008 LF 1" Polyethylene Or Polyurethane Backer Rod	1.81	0.46
07 91 23 00-0009 LF 1-1/4" Polyethylene Or Polyurethane Backer Rod	2.00	0.53
07 91 23 00-0010 LF 1-1/2" Polyethylene Or Polyurethane Backer Rod	2.22	0.61
07 91 23 00-0011 LF 2" Polyethylene Or Polyurethane Backer Rod	2.60	0.68
07 91 23 00-0012 LF 3" Polyethylene Or Polyurethane Backer Rod	3.89	0.84

07 91 26 Joint Fillers ^(07 91)**07 91 26 00-0001 Butyl Rubber Fillers** ^(07 91 26)

07 91 26 00-0002 LF 1/4" x 1/4" Butyl Rubber Filler	1.54	0.46
<i>For Coloring, Add</i>	0.00	
07 91 26 00-0003 LF 1/2" x 1/2" Butyl Rubber Filler	4.39	1.30
<i>For Coloring, Add</i>	0.02	
07 91 26 00-0004 LF 1/2" x 3/4" Butyl Rubber Filler	5.01	1.38
<i>For Coloring, Add</i>	0.03	
07 91 26 00-0005 LF 3/4" x 3/4" Butyl Rubber Filler	5.10	1.45
07 91 26 00-0006 LF 1" x 1" Butyl Rubber Filler	4.62	1.61

07 91 26 00-0007 Closed Cell Neoprene ^(07 91 26)

07 91 26 00-0008 CLF 1/8" x 3" Neoprene Gasket Closed Cell, Adhesive.....	307.70	88.13
07 91 26 00-0009 CLF 1/8" x 6" Neoprene Gasket Closed Cell, Adhesive.....	508.04	127.31
07 91 26 00-0010 CLF 1/4" x 3" Neoprene Gasket Closed Cell, Adhesive.....	398.66	109.13
07 91 26 00-0011 CLF 1/4" x 6" Neoprene Gasket Closed Cell, Adhesive.....	470.26	114.55
07 91 26 00-0012 CLF 1/2" x 6" Neoprene Gasket Closed Cell, Adhesive.....	716.73	176.26
07 91 26 00-0013 CLF 1/2" x 9" Neoprene Gasket Closed Cell, Adhesive.....	830.32	190.93
07 91 26 00-0014 CLF 1/2" x 12" Neoprene Gasket Closed Cell, Adhesive.....	785.27	138.85

07 91 26 00-0015 Closed Cell Polyvinyl Chloride ^(07 91 26)

07 91 26 00-0016 CLF 1/8" x 3" Polyethylene Joint Backing, Closed Cell.....	310.57	109.13
07 91 26 00-0017 CLF 1/8" x 6" Polyethylene Joint Backing, Closed Cell.....	525.24	176.26
07 91 26 00-0018 CLF 1/4" x 3" Polyethylene Joint Backing, Closed Cell.....	405.98	150.46
07 91 26 00-0019 CLF 1/4" x 6" Polyethylene Joint Backing, Closed Cell.....	488.42	158.85
07 91 26 00-0020 CLF 1/2" x 6" Polyethylene Joint Backing, Closed Cell.....	743.65	243.63
07 91 26 00-0021 CLF 1/2" x 9" Polyethylene Joint Backing, Closed Cell.....	870.13	264.40
07 91 26 00-0022 CLF 1/2" x 12" Polyethylene Joint Backing, Closed Cell.....	1,151.67	316.94

07 91 26 00-0023 Silicon RTV Foam Penetration Seal ^(07 91 26)

07 91 26 00-0024 CLF 1/4" x 1/2" Silicon RTV Foam Seal.....	116.90	17.49
07 91 26 00-0025 CLF 1/2" x 1/2" Silicon RTV Foam Seal.....	233.80	34.90
07 91 26 00-0026 CLF 1/2" x 3/4" Silicon RTV Foam Seal.....	348.74	51.86
07 91 26 00-0027 CLF 3/4" x 3/4" Silicon RTV Foam Seal.....	496.99	69.88
07 91 26 00-0028 CLF 1/8" x 1" Silicon RTV Foam Seal.....	116.90	17.49
07 91 26 00-0029 CLF 1/8" x 3" Silicon RTV Foam Seal.....	348.43	51.70
07 91 26 00-0030 CLF 1/4" x 3" Silicon RTV Foam Seal.....	610.89	77.67
07 91 26 00-0031 CLF 1/4" x 6" Silicon RTV Foam Seal.....	1,220.43	154.80
07 91 26 00-0032 CLF 1/2" x 6" Silicon RTV Foam Seal.....	2,335.66	279.44
07 91 26 00-0033 CLF 1/2" x 9" Silicon RTV Foam Seal.....	3,559.65	436.53
07 91 26 00-0034 CLF 1/2" x 12" Silicon RTV Foam Seal.....	5,145.99	698.49

**Thermal And Moisture Protection 07****Joint Protection 07 90****Preformed Joint Seals 07 91****107**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 26 00-0035			Seals O-Ring Type Cord "J-Seal" (07 91 26)		
07 91 26 00-0036	LF	1/4"	Seals O-Ring Cord, J-Seal	3.26	0.99
07 91 26 00-0037	LF	1/2"	Seals O-Ring Cord, J-Seal	3.46	0.99
07 91 26 00-0038	LF	3/4"	Seals O-Ring Cord, J-Seal	3.65	1.06
07 91 26 00-0039	LF	1"	Seals O-Ring Cord, J-Seal	3.87	1.14
07 91 26 00-0040	LF	1-1/4"	Seals O-Ring Cord, J-Seal	4.16	1.23
07 91 26 00-0041	LF	1-1/2"	Seals O-Ring Cord, J-Seal	4.37	1.23
07 91 26 00-0042	LF	1-3/4"	Seals O-Ring Cord, J-Seal	4.63	1.30
07 91 26 00-0043	LF	2"	Seals O-Ring Cord, J-Seal	4.80	1.30
07 91 33			Expansion Joint Seal Systems (07 91)		
07 91 33 00-0001			Expansion Joint Seal Systems (Wabo®) (07 91 33)		
07 91 33 00-0002			Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)		
Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.					
07 91 33 00-0003	LF	1/2"	Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH)	53.69	5.74
07 91 33 00-0004	LF	3/4"	Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH)	70.27	6.01
07 91 33 00-0005	LF	1"	Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint System (Wabo® HSeal 50EH)	87.75	6.29
07 91 33 00-0006	LF	1-1/4"	Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH)	107.16	6.56
07 91 33 00-0007	LF	1-1/2"	Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH)	137.46	6.83
07 91 33 00-0008	LF	1-3/4"	Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH)	157.20	7.11
07 91 33 00-0009	LF	2"	Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint System (Wabo® HSeal 100EH)	181.63	7.38
07 91 33 00-0010			Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
Note: Includes preformed neoprene joint seal and lubricant adhesive.					
07 91 33 00-0011	LF	0.625"	Minimum, 1.381" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162)	30.05	5.74
07 91 33 00-0012	LF	0.688"	Minimum, 1.488" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175)	32.40	5.82
07 91 33 00-0013	LF	0.875"	Minimum, 1.700" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200)	38.11	5.90
07 91 33 00-0014	LF	0.953"	Minimum, 1.913" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225)	40.22	6.01
07 91 33 00-0015	LF	1.000"	Minimum, 2.125" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250)	42.67	6.09
07 91 33 00-0016	LF	1.125"	Minimum, 2.550" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300)	51.11	6.17
07 91 33 00-0017	LF	1.375"	Minimum, 2.975" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350)	61.82	6.29
07 91 33 00-0018	LF	1.625"	Minimum, 3.400" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400)	72.29	6.56
07 91 33 00-0019	LF	1.687"	Minimum, 4.250" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500)	81.30	6.83
07 91 33 00-0020			Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
Note: Includes preformed Santoprene® joint seal and lubricant adhesive.					
07 91 33 00-0021	LF	0.500"	Minimum, 1.500" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100)	26.03	5.74
07 91 33 00-0022	LF	0.688"	Minimum, 1.938" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225)	32.49	6.01
07 91 33 00-0023	LF	1.063"	Minimum, 2.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250)	38.85	6.29
07 91 33 00-0024	LF	1.250"	Minimum, 2.563" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300)	40.81	6.42
07 91 33 00-0025	LF	1.250"	Minimum, 3.375" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400)	44.76	6.56
07 91 33 00-0026	LF	1.438"	Minimum, 4.250" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500)	61.82	6.83
07 91 33 00-0027	LF	1.813"	Minimum, 5.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600)	82.86	7.11
07 91 33 00-0028			Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001)		
Note: Includes a pre-compressed foam seal and silicone sealant.					
07 91 33 00-0029	LF	1/2"	Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100)	19.13	2.28

07 Thermal And Moisture Protection**07 90 Joint Protection****07 91 Preformed Joint Seals**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0030	LF		3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150).....	31.29	2.37
07 91 33 00-0031	LF		1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200).....	46.50	2.46
07 91 33 00-0032	LF		1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250).....	58.32	2.55
07 91 33 00-0033	LF		1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300).....	76.35	2.65
07 91 33 00-0034	LF		1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350).....	100.59	2.74
07 91 33 00-0035	LF		2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400).....	123.09	2.83
07 91 33 00-0036	LF		2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500).....	165.50	2.92
07 91 33 00-0037	LF		3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600).....	193.00	3.01

07 91 33 00-0038 Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II)

(07 91 33 00-0001)
Note: Includes a pre-compressed foam seal and silicone sealant.

07 91 33 00-0039	LF		0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100).....	18.70	2.28
07 91 33 00-0040	LF		1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150).....	24.32	2.37
07 91 33 00-0041	LF		1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200).....	32.24	2.46
07 91 33 00-0042	LF		1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250).....	43.30	2.55
07 91 33 00-0043	LF		2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300).....	49.25	2.65
07 91 33 00-0044	LF		2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....	67.83	2.74
07 91 33 00-0045	LF		3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....	90.66	2.83
07 91 33 00-0046	LF		3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....	97.80	2.92

07 92 Joint Sealants

(07 90)

07 92 13 Elastomeric Joint Sealants

(07 92)

07 92 13 00-0001 Silicone Sealant And Caulking

(07 92 13)

07 92 13 00-0002	CLF		1/4" x 1/4" Joint, Silicone Sealant And Caulking.....	330.82	144.63
			For Coloring, Add	14.96	
			For 1 Part Mildew Resistant, Add	14.55	
			For High-Modulus Non-Acid Curing, Add	8.31	
07 92 13 00-0003	CLF		1/4" x 3/8" Joint, Silicone Sealant And Caulking.....	360.64	149.16
			For Coloring, Add	22.44	
			For 1 Part Mildew Resistant, Add	21.82	
			For High-Modulus Non-Acid Curing, Add	12.47	
07 92 13 00-0004	CLF		1/4" x 1/2" Joint, Silicone Sealant And Caulking.....	390.42	153.67
			For Coloring, Add	29.92	
			For 1 Part Mildew Resistant, Add	29.09	
			For High-Modulus Non-Acid Curing, Add	16.62	
07 92 13 00-0005	CLF		3/8" x 3/8" Joint, Silicone Sealant And Caulking.....	400.81	153.67
			For Coloring, Add	33.66	
			For 1 Part Mildew Resistant, Add	32.73	
			For High-Modulus Non-Acid Curing, Add	18.70	
07 92 13 00-0006	CLF		3/8" x 1/2" Joint, Silicone Sealant And Caulking.....	441.09	158.19
			For Coloring, Add	44.88	
			For 1 Part Mildew Resistant, Add	43.63	
			For High-Modulus Non-Acid Curing, Add	24.93	
07 92 13 00-0007	CLF		3/8" x 5/8" Joint, Silicone Sealant And Caulking.....	481.28	162.72
			For Coloring, Add	56.10	
			For 1 Part Mildew Resistant, Add	54.54	
			For High-Modulus Non-Acid Curing, Add	31.17	
07 92 13 00-0008	CLF		3/8" x 3/4" Joint, Silicone Sealant And Caulking.....	530.46	171.75
			For Coloring, Add	67.32	
			For 1 Part Mildew Resistant, Add	65.45	
			For High-Modulus Non-Acid Curing, Add	37.40	
07 92 13 00-0009	CLF		1/2" x 1/2" Joint, Silicone Sealant And Caulking.....	491.67	162.72
			For Coloring, Add	59.84	
			For 1 Part Mildew Resistant, Add	58.18	
			For High-Modulus Non-Acid Curing, Add	33.25	
07 92 13 00-0010	CLF		1/2" x 5/8" Joint, Silicone Sealant And Caulking.....	569.37	180.79
			For Coloring, Add	74.80	
			For 1 Part Mildew Resistant, Add	72.73	
			For High-Modulus Non-Acid Curing, Add	41.56	
07 92 13 00-0011	CLF		1/2" x 3/4" Joint, Silicone Sealant And Caulking.....	629.03	189.84
			For Coloring, Add	89.77	
			For 1 Part Mildew Resistant, Add	87.27	
			For High-Modulus Non-Acid Curing, Add	49.87	

**Thermal And Moisture Protection****07**

Joint Protection

07 90

Joint Sealants

07 92**07**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0012 CLF 1/2" x 7/8" Joint, Silicone Sealant And Caulking.....	688.64	198.86
For Coloring, Add	104.73	
For 1 Part Mildew Resistant, Add	101.82	
For High-Modulus Non-Acid Curing, Add	58.18	
07 92 13 00-0013 CLF 1/2" x 1" Joint, Silicone Sealant And Caulking.....	739.22	203.38
For Coloring, Add	119.69	
For 1 Part Mildew Resistant, Add	116.36	
For High-Modulus Non-Acid Curing, Add	66.49	
07 92 13 00-0014 CLF 3/4" x 3/4" Joint, Silicone Sealant And Caulking.....	789.90	207.90
For Coloring, Add	134.65	
For 1 Part Mildew Resistant, Add	130.91	
For High-Modulus Non-Acid Curing, Add	74.80	
07 92 13 00-0015 CLF 1" x 1" Joint, Silicone Sealant And Caulking.....	1,116.91	225.99
For Coloring, Add	239.37	
For 1 Part Mildew Resistant, Add	232.73	
For High-Modulus Non-Acid Curing, Add	132.99	
07 92 13 00-0016 Acrylic/Latex Sealant And Caulking (07 92 13)		
07 92 13 00-0017 CLF 1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking.....	310.51	144.62
07 92 13 00-0018 CLF 1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking.....	330.14	149.15
07 92 13 00-0019 CLF 1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking.....	349.76	153.67
07 92 13 00-0020 CLF 3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking.....	355.07	153.67
07 92 13 00-0021 CLF 3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking.....	380.11	158.19
07 92 13 00-0022 CLF 3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking.....	405.06	162.72
07 92 13 00-0023 CLF 3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking.....	438.99	171.75
07 92 13 00-0024 CLF 1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking.....	410.37	162.72
07 92 13 00-0025 CLF 1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking.....	467.74	180.79
07 92 13 00-0026 CLF 1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking.....	507.07	189.84
07 92 13 00-0027 CLF 1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking.....	546.35	198.86
07 92 13 00-0028 CLF 1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking.....	576.60	203.38
07 92 13 00-0029 CLF 3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking.....	606.96	207.90
07 92 13 00-0030 CLF 1" x 1" Joint, Acrylic/Latex Sealant And Caulking.....	791.68	225.99
07 92 13 00-0031 Polyurethane Sealant And Caulking (07 92 13)		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0032 CLF 1/4" x 1/4" Joint, Polyurethane Sealant And Caulking.....	321.15	144.62
07 92 13 00-0033 CLF 1/4" x 3/8" Joint, Polyurethane Sealant And Caulking.....	346.10	150.06
07 92 13 00-0034 CLF 1/4" x 1/2" Joint, Polyurethane Sealant And Caulking.....	371.05	153.67
07 92 13 00-0035 CLF 3/8" x 3/8" Joint, Polyurethane Sealant And Caulking.....	379.02	153.67
07 92 13 00-0036 CLF 3/8" x 1/2" Joint, Polyurethane Sealant And Caulking.....	412.04	158.19
07 92 13 00-0037 CLF 3/8" x 5/8" Joint, Polyurethane Sealant And Caulking.....	444.97	162.72
07 92 13 00-0038 CLF 3/8" x 3/4" Joint, Polyurethane Sealant And Caulking.....	486.88	171.75
07 92 13 00-0039 CLF 1/2" x 1/2" Joint, Polyurethane Sealant And Caulking.....	452.93	162.72
07 92 13 00-0040 CLF 1/2" x 5/8" Joint, Polyurethane Sealant And Caulking.....	520.95	180.79
07 92 13 00-0041 CLF 1/2" x 3/4" Joint, Polyurethane Sealant And Caulking.....	570.92	189.84
07 92 13 00-0042 CLF 1/2" x 7/8" Joint, Polyurethane Sealant And Caulking.....	620.85	198.86
07 92 13 00-0043 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking.....	661.74	203.38
07 92 13 00-0044 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking.....	702.74	207.90
07 92 13 00-0045 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking.....	834.46	225.99
07 92 13 00-0046 Flexible Polysulfide Sealant And Caulking, Clear (07 92 13)		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0047 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking.....	324.18	144.62
07 92 13 00-0048 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking.....	350.65	150.97
07 92 13 00-0049 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking.....	377.11	153.67
07 92 13 00-0050 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking.....	385.84	153.67
07 92 13 00-0051 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking.....	421.15	158.19
07 92 13 00-0052 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking.....	456.34	162.72
07 92 13 00-0053 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking.....	500.52	171.75
07 92 13 00-0054 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking.....	465.06	162.72
07 92 13 00-0055 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking.....	536.12	180.79
07 92 13 00-0056 CLF 1/2" x 3/4" Joint, Polysulfide Sealant And Caulking.....	589.12	189.84
07 92 13 00-0057 CLF 1/2" x 7/8" Joint, Polysulfide Sealant And Caulking.....	642.08	198.86
07 92 13 00-0058 CLF 1/2" x 1" Joint, Polysulfide Sealant And Caulking.....	686.00	203.38
07 92 13 00-0059 CLF 3/4" x 3/4" Joint, Polysulfide Sealant And Caulking.....	730.04	207.90
07 92 13 00-0060 CLF 3/4" x 1" Joint, Polysulfide Sealant And Caulking.....	870.85	225.99
07 92 13 00-0061 Flexible Polyurethane Security Sealant And Caulking (07 92 13)		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0062 CLF 1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking.....	331.58	144.62
07 92 13 00-0063 CLF 1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking.....	361.75	150.06
07 92 13 00-0064 CLF 1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking.....	391.91	153.67
07 92 13 00-0065 CLF 3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking.....	402.48	153.67
07 92 13 00-0066 CLF 3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking.....	443.33	158.19
07 92 13 00-0067 CLF 3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking.....	484.08	162.72
07 92 13 00-0068 CLF 3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking.....	533.81	171.75
07 92 13 00-0069 CLF 1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking.....	494.65	162.72
07 92 13 00-0070 CLF 1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking.....	573.10	180.79

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0071 CLF 1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	633.50	189.84
07 92 13 00-0072 CLF 1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking	693.85	198.86
07 92 13 00-0073 CLF 1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	745.18	203.38
07 92 13 00-0074 CLF 3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	796.61	207.90
07 92 13 00-0075 CLF 3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	959.62	225.99

07 92 19 Acoustical Joint Sealants (07 92)**07 92 19 00-0001 Acoustical Sealant** (07 92 19)

07 92 19 00-0002 CLF 1/4" x 1/4" Joint, Acoustical Sealant.....	296.70	135.60
For Coloring, Add	9.19	
For 1 Part Mildew Resistant, Add	8.94	
For High-Modulus Non-Acid Curing, Add	5.11	
07 92 19 00-0003 CLF 1/4" x 3/8" Joint, Acoustical Sealant.....	324.53	144.62
For Coloring, Add	12.69	
For 1 Part Mildew Resistant, Add	12.34	
For High-Modulus Non-Acid Curing, Add	7.05	
07 92 19 00-0004 CLF 1/4" x 1/2" Joint, Acoustical Sealant.....	348.26	153.67
For Coloring, Add	14.75	
For 1 Part Mildew Resistant, Add	14.34	
For High-Modulus Non-Acid Curing, Add	8.19	
07 92 19 00-0005 CLF 3/8" x 3/8" Joint, Acoustical Sealant.....	364.14	153.67
For Coloring, Add	20.46	
For 1 Part Mildew Resistant, Add	19.89	
For High-Modulus Non-Acid Curing, Add	11.37	
07 92 19 00-0006 CLF 3/8" x 1/2" Joint, Acoustical Sealant.....	389.76	158.19
For Coloring, Add	26.40	
For 1 Part Mildew Resistant, Add	25.67	
For High-Modulus Non-Acid Curing, Add	14.67	
07 92 19 00-0007 CLF 1/2" x 1/2" Joint, Acoustical Sealant.....	428.78	162.72
For Coloring, Add	37.20	
For 1 Part Mildew Resistant, Add	36.17	
For High-Modulus Non-Acid Curing, Add	20.67	

07 95 Expansion Control (07 90)**07 95 13 Expansion Joint Cover Assemblies** (07 95)

Note: Includes necessary waterproofing mastics/caulking.

07 95 13 13 Interior Expansion Joint Cover Assemblies (07 95 13)**07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies** (07 95 13 13)**07 95 13 13-0002 With 1" Space** (07 95 13 13-0001)

07 95 13 13-0003 LF Aluminum Expansion Joint Cover, 1" Opening Floor Assembly Type.....	37.09	5.37
07 95 13 13-0004 LF Bronze Expansion Joint Cover, 1" Opening Floor Assembly Type	65.29	5.37
07 95 13 13-0005 LF Stainless Steel Expansion Joint Cover, 1" Opening Floor Assembly Type	71.90	5.37

07 95 13 13-0006 With 2" Space (07 95 13 13-0001)

07 95 13 13-0007 LF Aluminum Expansion Joint Cover, 2" Opening Floor Assembly Type.....	43.86	5.37
07 95 13 13-0008 LF Bronze Expansion Joint Cover, 2" Opening Floor Assembly Type	79.20	5.37
07 95 13 13-0009 LF Stainless Steel Expansion Joint Cover, 2" Opening Floor Assembly Type	96.08	5.37

07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies (07 95 13 13)**07 95 13 13-0011 With 1" Space** (07 95 13 13-0010)

07 95 13 13-0012 LF Aluminum Expansion Joint Cover, 1" Opening Ceiling And Wall Assembly Type.....	30.32	5.37
07 95 13 13-0013 LF Bronze Expansion Joint Cover, 1" Opening Ceiling And Wall Assembly Type	51.38	5.37
07 95 13 13-0014 LF Stainless Steel Expansion Joint Cover, 1" Opening Ceiling And Wall Assembly Type	59.81	5.37

07 95 13 13-0015 With 2" Space (07 95 13 13-0010)

07 95 13 13-0016 LF Aluminum Expansion Joint Cover, 2" Opening Ceiling And Wall Assembly Type.....	34.38	5.37
07 95 13 13-0017 LF Bronze Expansion Joint Cover, 2" Opening Ceiling And Wall Assembly Type	58.33	5.37
07 95 13 13-0018 LF Stainless Steel Expansion Joint Cover, 2" Opening Ceiling And Wall Assembly Type	71.90	5.37

07 95 13 16 Exterior Expansion Joint Cover Assemblies (07 95 13)**07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies** (07 95 13 16)**07 95 13 16-0002 Roof To Roof** (07 95 13 16-0001)

07 95 13 16-0003 LF Exterior Roof To Roof Expansion Joint, 1" Opening Aluminum Assemblies	37.01	3.58
07 95 13 16-0004 LF Exterior Roof To Roof Expansion Joint, 2" Opening Aluminum Assemblies	42.71	3.58
07 95 13 16-0005 LF Exterior Roof To Roof Expansion Joint, 3" Opening Aluminum Assemblies	46.64	3.58

07 95 13 16-0006 Roof To Wall (07 95 13 16-0001)

07 95 13 16-0007 LF Exterior Roof To Wall Expansion Joint, 1" Opening Aluminum Assemblies.....	30.81	3.58
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Thermal And Moisture Protection		07
Joint Protection		07 90
Expansion Control		07 95

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 95 13 16-0008 LF Exterior Roof To Wall Expansion Joint, 2" Opening Aluminum Assemblies.....	37.78	3.58
07 95 13 16-0009 Flat Wall To Wall (07 95 13 16-0001)		
07 95 13 16-0010 LF Exterior Wall To Wall Expansion Joint, 1" Opening Aluminum Assemblies	24.67	3.58
07 95 13 16-0011 LF Exterior Wall To Wall Expansion Joint, 2" Opening Aluminum Assemblies	28.86	3.58
07 95 13 16-0012 LF Exterior Wall To Wall Expansion Joint, 3" Opening Aluminum Assemblies	33.91	3.58
07 95 13 16-0013 Corner To Flat Wall (07 95 13 16-0001)		
07 95 13 16-0014 LF Exterior Corner To Wall Expansion Joint, 1" Opening Aluminum Assemblies	24.64	3.58
07 95 13 16-0015 LF Exterior Corner To Wall Expansion Joint, 2" Opening Aluminum Assemblies	27.43	3.58
07 95 13 16-0016 LF Exterior Corner To Wall Expansion Joint, 3" Opening Aluminum Assemblies	35.27	3.58

END OF SECTION 07

07	07	Thermal And Moisture Protection
	07 90	Joint Protection
	07 95	Expansion Control



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Openings			08
Doors And Frames			08 10
Metal Doors And Frames			08 11

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 Openings

08 10 Doors And Frames⁽⁰⁸⁾

08 11 Metal Doors And Frames^(08 10)

08 11 63 Metal Screen And Storm Doors And Frames^(08 11)

08 11 63 13 Steel Screen And Storm Doors And Frames^(08 11 63)

08 11 63 13-0001 Steel Screen Door^(08 11 63 13)

Note: Includes frame, trim, necessary anchors and hardware (closures, chain and spring, latching, screens, etc.).

08 11 63 13-0002	EA	2'-8" x 7" Steel Screen Door, Residential, With Frame, Trim, Hardware.....	683.62	124.34
08 11 63 13-0003	EA	3' x 7" Steel Screen Door, Residential, With Frame, Trim, Hardware.....	692.70	128.86
08 11 63 13-0004	EA	Steel Combination Type Residential Storm Door, With Mesh And Tempered Glass With Frame, Trim, Hardware.....	735.84	128.86

08 11 63 23 Aluminum Screen And Storm Doors And Frames^(08 11 63)

08 11 63 23-0001 Aluminum Combination Type With Tempered Glass At Top And Bottom^(08 11 63 23)

Note: Includes frame trim, necessary anchors and usual hardware (closures, chain and spring, latching, screens, etc.).

08 11 63 23-0002	EA	Aluminum Combination Type Residential Storm Door, Tempered Glass Top With Frame, Trim, Hardware	401.85	72.35
		For Special Finished, Add	26.52	
08 11 63 23-0003	EA	Aluminum Combination Type Residential Storm Door, Tempered Glass Top And Bottom With Frame, Trim, Hardware	416.76	72.35
08 11 63 23-0004	EA	Aluminum Screen Door.....	267.62	45.20
08 11 63 23-0005	SF	Repair Screen Door	6.09	

08 11 73 Sliding Metal Fire Doors^(08 11)

08 11 73 00-0001 Motor Operated Fire Door^(08 11 73)

Note: With fusible link, 3 hour rating. Excludes electrical hook-up of motor.

08 11 73 00-0002	EA	3' x 6' 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating.....	3,573.91	447.43
08 11 73 00-0003	EA	3' 8" x 6' 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating.....	3,794.44	447.43
08 11 73 00-0004	EA	4' x 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating	4,162.29	447.43
08 11 73 00-0005	EA	5' x 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating	4,563.67	447.43

08 12 Metal Frames^(08 10)

Note: All door frames include perimeter caulk, sealant (as required), anchors and silencers.

08 12 13 Hollow Metal Frames^(08 12)

08 12 13 13 Standard Hollow Metal Frames^(08 12 13)

Note: Shop prime coat.

08 12 13 13-0001 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames^(08 12 13 13)

08 12 13 13-0002 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door

Frames^(08 12 13 13-0001)

08 12 13 13-0003	EA	2' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	237.70	67.82
		For Auxiliary Frame Reinforcement For Hinges, Add	15.31	
		For Welded Frames, Add	59.50	
		For Galvanized Frames, Add	12.25	
		For Type 304 Stainless Steel Frame, Add	190.49	
		For Type 316 Stainless Steel Frame, Add	221.11	
		For Baked Enamel Finish, Add	50.96	
		For 3/4 Hour Rating, Add	36.84	
		For 1-1/2 Hour Rating, Add	42.10	
		For 3 Hour Rating, Add	52.63	
		For 18 Gauge Frame, Deduct	-10.21	
		For 14 Gauge Frame, Add	25.52	
		For 12 Gauge Frame, Add	38.78	
08 12 13 13-0004	EA	2'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	270.71	74.60
		For Auxiliary Frame Reinforcement For Hinges, Add	18.23	
		For Welded Frames, Add	59.50	
		For Galvanized Frames, Add	14.58	
		For Type 304 Stainless Steel Frame, Add	226.16	
		For Type 316 Stainless Steel Frame, Add	262.61	
		For Baked Enamel Finish, Add	58.83	
		For 3/4 Hour Rating, Add	36.84	
		For 1-1/2 Hour Rating, Add	42.10	
		For 3 Hour Rating, Add	52.63	
		For 18 Gauge Frame, Deduct	-12.15	
		For 14 Gauge Frame, Add	30.38	
		For 12 Gauge Frame, Add	46.17	

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0005	EA		2'-6" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	281.69	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	18.52	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	14.81	
			For Type 304 Stainless Steel Frame, Add	230.10	
			For Type 316 Stainless Steel Frame, Add	267.14	
			For Baked Enamel Finish, Add	60.77	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-12.34	
			For 14 Gauge Frame, Add	30.86	
			For 12 Gauge Frame, Add	46.91	
08 12 13 13-0006	EA		2'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	295.25	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	18.52	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	14.81	
			For Type 304 Stainless Steel Frame, Add	230.78	
			For Type 316 Stainless Steel Frame, Add	267.81	
			For Baked Enamel Finish, Add	62.80	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-12.34	
			For 14 Gauge Frame, Add	30.86	
			For 12 Gauge Frame, Add	46.91	
08 12 13 13-0007	EA		2'-10" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	301.73	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	18.81	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	15.05	
			For Type 304 Stainless Steel Frame, Add	234.52	
			For Type 316 Stainless Steel Frame, Add	272.14	
			For Baked Enamel Finish, Add	64.07	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-12.54	
			For 14 Gauge Frame, Add	31.35	
			For 12 Gauge Frame, Add	47.65	
08 12 13 13-0008	EA		3' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	308.18	90.43
			For Auxiliary Frame Reinforcement For Hinges, Add	19.10	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	15.28	
			For Type 304 Stainless Steel Frame, Add	238.24	
			For Type 316 Stainless Steel Frame, Add	276.44	
			For Baked Enamel Finish, Add	65.33	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-12.73	
			For 14 Gauge Frame, Add	31.83	
			For 12 Gauge Frame, Add	48.39	
08 12 13 13-0009	EA		3'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	325.98	94.95
			For Auxiliary Frame Reinforcement For Hinges, Add	20.41	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.33	
			For Type 304 Stainless Steel Frame, Add	254.44	
			For Type 316 Stainless Steel Frame, Add	295.26	
			For Baked Enamel Finish, Add	69.31	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.61	
			For 14 Gauge Frame, Add	34.02	
			For 12 Gauge Frame, Add	51.71	
08 12 13 13-0010	EA		3'-6" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	335.02	99.47
			For Auxiliary Frame Reinforcement For Hinges, Add	20.41	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.33	
			For Type 304 Stainless Steel Frame, Add	254.89	
			For Type 316 Stainless Steel Frame, Add	295.72	
			For Baked Enamel Finish, Add	70.67	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.61	
			For 14 Gauge Frame, Add	34.02	
			For 12 Gauge Frame, Add	51.71	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Frames	08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0011	EA 4' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	348.92		103.99
	For Auxiliary Frame Reinforcement For Hinges, Add	21.14		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	16.91		
	For Type 304 Stainless Steel Frame, Add	264.09		
	For Type 316 Stainless Steel Frame, Add	306.37		
	For Baked Enamel Finish, Add	73.48		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-14.09		
	For 14 Gauge Frame, Add	35.24		
	For 12 Gauge Frame, Add	53.56		
08 12 13 13-0012	EA 5' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	362.83		108.51
	For Auxiliary Frame Reinforcement For Hinges, Add	21.87		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	17.50		
	For Type 304 Stainless Steel Frame, Add	273.29		
	For Type 316 Stainless Steel Frame, Add	317.03		
	For Baked Enamel Finish, Add	76.29		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-14.58		
	For 14 Gauge Frame, Add	36.45		
	For 12 Gauge Frame, Add	55.40		
08 12 13 13-0013	EA 5'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	371.87		113.04
	For Auxiliary Frame Reinforcement For Hinges, Add	21.87		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	17.50		
	For Type 304 Stainless Steel Frame, Add	273.74		
	For Type 316 Stainless Steel Frame, Add	317.48		
	For Baked Enamel Finish, Add	77.65		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-14.58		
	For 14 Gauge Frame, Add	36.45		
	For 12 Gauge Frame, Add	55.40		
08 12 13 13-0014	EA 5'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	378.82		115.30
	For Auxiliary Frame Reinforcement For Hinges, Add	22.23		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	17.79		
	For Type 304 Stainless Steel Frame, Add	278.34		
	For Type 316 Stainless Steel Frame, Add	322.81		
	For Baked Enamel Finish, Add	79.06		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-14.82		
	For 14 Gauge Frame, Add	37.06		
	For 12 Gauge Frame, Add	56.33		
08 12 13 13-0015	EA 6' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	385.77		117.55
	For Auxiliary Frame Reinforcement For Hinges, Add	22.60		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	18.08		
	For Type 304 Stainless Steel Frame, Add	282.94		
	For Type 316 Stainless Steel Frame, Add	328.14		
	For Baked Enamel Finish, Add	80.46		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-15.07		
	For 14 Gauge Frame, Add	37.67		
	For 12 Gauge Frame, Add	57.25		
08 12 13 13-0016	EA 7' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	400.01		119.82
	For Auxiliary Frame Reinforcement For Hinges, Add	24.06		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	19.25		
	For Type 304 Stainless Steel Frame, Add	300.67		
	For Type 316 Stainless Steel Frame, Add	348.78		
	For Baked Enamel Finish, Add	84.06		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-16.04		
	For 14 Gauge Frame, Add	40.10		
	For 12 Gauge Frame, Add	60.94		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0017	EA		8' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	414.26	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	25.52	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	20.41	
			For Type 304 Stainless Steel Frame, Add	318.39	
			For Type 316 Stainless Steel Frame, Add	369.42	
			For Baked Enamel Finish, Add	87.65	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-17.01	
			For 14 Gauge Frame, Add	42.53	
			For 12 Gauge Frame, Add	64.64	
08 12 13 13-0018			>7'-2" Through 9'-0" High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0001)		
08 12 13 13-0019	EA		2' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	249.04	67.82
			For Auxiliary Frame Reinforcement For Hinges, Add	17.01	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	13.61	
			For Type 304 Stainless Steel Frame, Add	210.90	
			For Type 316 Stainless Steel Frame, Add	244.92	
			For Baked Enamel Finish, Add	54.37	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-11.34	
			For 14 Gauge Frame, Add	28.35	
			For 12 Gauge Frame, Add	43.09	
08 12 13 13-0020	EA		2'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	284.21	74.60
			For Auxiliary Frame Reinforcement For Hinges, Add	20.25	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.20	
			For Type 304 Stainless Steel Frame, Add	250.46	
			For Type 316 Stainless Steel Frame, Add	290.96	
			For Baked Enamel Finish, Add	62.88	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.50	
			For 14 Gauge Frame, Add	33.75	
			For 12 Gauge Frame, Add	51.30	
08 12 13 13-0021	EA		2'-6" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	295.41	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	20.57	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.46	
			For Type 304 Stainless Steel Frame, Add	254.80	
			For Type 316 Stainless Steel Frame, Add	295.95	
			For Baked Enamel Finish, Add	64.89	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.72	
			For 14 Gauge Frame, Add	34.29	
			For 12 Gauge Frame, Add	52.12	
08 12 13 13-0022	EA		2'-8" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	308.97	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	20.57	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.46	
			For Type 304 Stainless Steel Frame, Add	255.48	
			For Type 316 Stainless Steel Frame, Add	296.63	
			For Baked Enamel Finish, Add	66.92	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.72	
			For 14 Gauge Frame, Add	34.29	
			For 12 Gauge Frame, Add	52.12	
08 12 13 13-0023	EA		2'-10" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	315.66	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	20.90	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.72	
			For Type 304 Stainless Steel Frame, Add	259.59	
			For Type 316 Stainless Steel Frame, Add	301.39	
			For Baked Enamel Finish, Add	68.25	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.93	
			For 14 Gauge Frame, Add	34.83	
			For 12 Gauge Frame, Add	52.94	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
08 12 13 13-0024	EA 3' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	322.33		90.43
	For Auxiliary Frame Reinforcement For Hinges, Add	21.22		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	16.98		
	For Type 304 Stainless Steel Frame, Add	263.71		
	For Type 316 Stainless Steel Frame, Add	306.15		
	For Baked Enamel Finish, Add	69.57		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-14.15		
	For 14 Gauge Frame, Add	35.37		
	For 12 Gauge Frame, Add	53.76		
08 12 13 13-0025	EA 3'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	341.10		94.95
	For Auxiliary Frame Reinforcement For Hinges, Add	22.68		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	18.14		
	For Type 304 Stainless Steel Frame, Add	281.66		
	For Type 316 Stainless Steel Frame, Add	327.02		
	For Baked Enamel Finish, Add	73.85		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-15.12		
	For 14 Gauge Frame, Add	37.80		
	For 12 Gauge Frame, Add	57.46		
08 12 13 13-0026	EA 3'-6" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	350.14		99.47
	For Auxiliary Frame Reinforcement For Hinges, Add	22.68		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	18.14		
	For Type 304 Stainless Steel Frame, Add	282.11		
	For Type 316 Stainless Steel Frame, Add	327.47		
	For Baked Enamel Finish, Add	75.20		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-15.12		
	For 14 Gauge Frame, Add	37.80		
	For 12 Gauge Frame, Add	57.46		
08 12 13 13-0027	EA 4' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	364.58		103.99
	For Auxiliary Frame Reinforcement For Hinges, Add	23.49		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	18.79		
	For Type 304 Stainless Steel Frame, Add	292.28		
	For Type 316 Stainless Steel Frame, Add	339.26		
	For Baked Enamel Finish, Add	78.18		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-15.66		
	For 14 Gauge Frame, Add	39.15		
	For 12 Gauge Frame, Add	59.51		
08 12 13 13-0028	EA 5' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	379.03		108.51
	For Auxiliary Frame Reinforcement For Hinges, Add	24.30		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	19.44		
	For Type 304 Stainless Steel Frame, Add	302.45		
	For Type 316 Stainless Steel Frame, Add	351.05		
	For Baked Enamel Finish, Add	81.15		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-16.20		
	For 14 Gauge Frame, Add	40.50		
	For 12 Gauge Frame, Add	61.56		
08 12 13 13-0029	EA 5'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	388.07		113.04
	For Auxiliary Frame Reinforcement For Hinges, Add	24.30		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	19.44		
	For Type 304 Stainless Steel Frame, Add	302.90		
	For Type 316 Stainless Steel Frame, Add	351.50		
	For Baked Enamel Finish, Add	82.51		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-16.20		
	For 14 Gauge Frame, Add	40.50		
	For 12 Gauge Frame, Add	61.56		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0030	EA		5'-8" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	395.29	115.30
			For Auxiliary Frame Reinforcement For Hinges, Add	24.71	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	19.76	
			For Type 304 Stainless Steel Frame, Add	307.99	
			For Type 316 Stainless Steel Frame, Add	357.40	
			For Baked Enamel Finish, Add	84.00	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.47	
			For 14 Gauge Frame, Add	41.18	
			For 12 Gauge Frame, Add	62.59	
08 12 13 13-0031	EA		6' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	402.51	117.55
			For Auxiliary Frame Reinforcement For Hinges, Add	25.11	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	20.09	
			For Type 304 Stainless Steel Frame, Add	313.08	
			For Type 316 Stainless Steel Frame, Add	363.30	
			For Baked Enamel Finish, Add	85.49	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.74	
			For 14 Gauge Frame, Add	41.85	
			For 12 Gauge Frame, Add	63.61	
08 12 13 13-0032	EA		7' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	417.83	119.82
			For Auxiliary Frame Reinforcement For Hinges, Add	26.73	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	21.38	
			For Type 304 Stainless Steel Frame, Add	332.74	
			For Type 316 Stainless Steel Frame, Add	386.20	
			For Baked Enamel Finish, Add	89.40	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-17.82	
			For 14 Gauge Frame, Add	44.55	
			For 12 Gauge Frame, Add	67.72	
08 12 13 13-0033	EA		8' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	433.16	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	28.35	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	22.68	
			For Type 304 Stainless Steel Frame, Add	352.41	
			For Type 316 Stainless Steel Frame, Add	409.11	
			For Baked Enamel Finish, Add	93.32	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-18.90	
			For 14 Gauge Frame, Add	47.25	
			For 12 Gauge Frame, Add	71.82	
08 12 13 13-0034			5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13)		
08 12 13 13-0035			6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0034)		
08 12 13 13-0036	EA		2' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	249.04	67.82
			For Auxiliary Frame Reinforcement For Hinges, Add	17.01	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	13.61	
			For Type 304 Stainless Steel Frame, Add	210.90	
			For Type 316 Stainless Steel Frame, Add	244.92	
			For Baked Enamel Finish, Add	54.37	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-11.34	
			For 14 Gauge Frame, Add	28.35	
			For 12 Gauge Frame, Add	43.09	
08 12 13 13-0037	EA		2'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	284.21	74.60
			For Auxiliary Frame Reinforcement For Hinges, Add	20.25	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	16.20	
			For Type 304 Stainless Steel Frame, Add	250.46	
			For Type 316 Stainless Steel Frame, Add	290.96	
			For Baked Enamel Finish, Add	62.88	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-13.50	
			For 14 Gauge Frame, Add	33.75	
			For 12 Gauge Frame, Add	51.30	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0038	EA 2'-6" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	295.41		79.13
	For Auxiliary Frame Reinforcement For Hinges, Add	20.57		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	16.46		
	For Type 304 Stainless Steel Frame, Add	254.80		
	For Type 316 Stainless Steel Frame, Add	295.95		
	For Baked Enamel Finish, Add	64.89		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-13.72		
	For 14 Gauge Frame, Add	34.29		
	For 12 Gauge Frame, Add	52.12		
08 12 13 13-0039	EA 2'-8" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	308.97		85.91
	For Auxiliary Frame Reinforcement For Hinges, Add	20.57		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	16.46		
	For Type 304 Stainless Steel Frame, Add	255.48		
	For Type 316 Stainless Steel Frame, Add	296.63		
	For Baked Enamel Finish, Add	66.92		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-13.72		
	For 14 Gauge Frame, Add	34.29		
	For 12 Gauge Frame, Add	52.12		
08 12 13 13-0040	EA 2'-10" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	315.66		88.17
	For Auxiliary Frame Reinforcement For Hinges, Add	20.90		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	16.72		
	For Type 304 Stainless Steel Frame, Add	259.59		
	For Type 316 Stainless Steel Frame, Add	301.39		
	For Baked Enamel Finish, Add	68.25		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-13.93		
	For 14 Gauge Frame, Add	34.83		
	For 12 Gauge Frame, Add	52.94		
08 12 13 13-0041	EA 3' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	322.33		90.43
	For Auxiliary Frame Reinforcement For Hinges, Add	21.22		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	16.98		
	For Type 304 Stainless Steel Frame, Add	263.71		
	For Type 316 Stainless Steel Frame, Add	306.15		
	For Baked Enamel Finish, Add	69.57		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-14.15		
	For 14 Gauge Frame, Add	35.37		
	For 12 Gauge Frame, Add	53.76		
08 12 13 13-0042	EA 3'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	341.10		94.95
	For Auxiliary Frame Reinforcement For Hinges, Add	22.68		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	18.14		
	For Type 304 Stainless Steel Frame, Add	281.66		
	For Type 316 Stainless Steel Frame, Add	327.02		
	For Baked Enamel Finish, Add	73.85		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-15.12		
	For 14 Gauge Frame, Add	37.80		
	For 12 Gauge Frame, Add	57.46		
08 12 13 13-0043	EA 3'-6" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	350.14		99.47
	For Auxiliary Frame Reinforcement For Hinges, Add	22.68		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	18.14		
	For Type 304 Stainless Steel Frame, Add	282.11		
	For Type 316 Stainless Steel Frame, Add	327.47		
	For Baked Enamel Finish, Add	75.20		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-15.12		
	For 14 Gauge Frame, Add	37.80		
	For 12 Gauge Frame, Add	57.46		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0044	EA		4' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	364.58	103.99
			For Auxiliary Frame Reinforcement For Hinges, Add	23.49	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	18.79	
			For Type 304 Stainless Steel Frame, Add	292.28	
			For Type 316 Stainless Steel Frame, Add	339.26	
			For Baked Enamel Finish, Add	78.18	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-15.66	
			For 14 Gauge Frame, Add	39.15	
			For 12 Gauge Frame, Add	59.51	
08 12 13 13-0045	EA		5' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	379.03	108.51
			For Auxiliary Frame Reinforcement For Hinges, Add	24.30	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	19.44	
			For Type 304 Stainless Steel Frame, Add	302.45	
			For Type 316 Stainless Steel Frame, Add	351.05	
			For Baked Enamel Finish, Add	81.15	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.20	
			For 14 Gauge Frame, Add	40.50	
			For 12 Gauge Frame, Add	61.56	
08 12 13 13-0046	EA		5'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	388.07	113.04
			For Auxiliary Frame Reinforcement For Hinges, Add	24.30	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	19.44	
			For Type 304 Stainless Steel Frame, Add	302.90	
			For Type 316 Stainless Steel Frame, Add	351.50	
			For Baked Enamel Finish, Add	82.51	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.20	
			For 14 Gauge Frame, Add	40.50	
			For 12 Gauge Frame, Add	61.56	
08 12 13 13-0047	EA		5'-8" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	395.29	115.30
			For Auxiliary Frame Reinforcement For Hinges, Add	24.71	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	19.76	
			For Type 304 Stainless Steel Frame, Add	307.99	
			For Type 316 Stainless Steel Frame, Add	357.40	
			For Baked Enamel Finish, Add	84.00	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.47	
			For 14 Gauge Frame, Add	41.18	
			For 12 Gauge Frame, Add	62.59	
08 12 13 13-0048	EA		6' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	402.51	117.55
			For Auxiliary Frame Reinforcement For Hinges, Add	25.11	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	20.09	
			For Type 304 Stainless Steel Frame, Add	313.08	
			For Type 316 Stainless Steel Frame, Add	363.30	
			For Baked Enamel Finish, Add	85.49	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.74	
			For 14 Gauge Frame, Add	41.85	
			For 12 Gauge Frame, Add	63.61	
08 12 13 13-0049	EA		7' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	417.83	119.82
			For Auxiliary Frame Reinforcement For Hinges, Add	26.73	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	21.38	
			For Type 304 Stainless Steel Frame, Add	332.74	
			For Type 316 Stainless Steel Frame, Add	386.20	
			For Baked Enamel Finish, Add	89.40	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-17.82	
			For 14 Gauge Frame, Add	44.55	
			For 12 Gauge Frame, Add	67.72	



		Openings	08
		Doors And Frames	08 10
		Metal Frames	08 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0050	EA		8' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	433.16	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	28.35	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	22.68	
			For Type 304 Stainless Steel Frame, Add	352.41	
			For Type 316 Stainless Steel Frame, Add	409.11	
			For Baked Enamel Finish, Add	93.32	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-18.90	
			For 14 Gauge Frame, Add	47.25	
			For 12 Gauge Frame, Add	71.82	
08 12 13 13-0051			>7'-2" Through 9'-0" High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0034)		
08 12 13 13-0052	EA		2' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	261.64	67.82
			For Auxiliary Frame Reinforcement For Hinges, Add	18.90	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	15.12	
			For Type 304 Stainless Steel Frame, Add	233.58	
			For Type 316 Stainless Steel Frame, Add	271.38	
			For Baked Enamel Finish, Add	58.15	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-12.60	
			For 14 Gauge Frame, Add	31.50	
			For 12 Gauge Frame, Add	47.88	
08 12 13 13-0053	EA		2'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	299.21	74.60
			For Auxiliary Frame Reinforcement For Hinges, Add	22.50	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	18.00	
			For Type 304 Stainless Steel Frame, Add	277.46	
			For Type 316 Stainless Steel Frame, Add	322.46	
			For Baked Enamel Finish, Add	67.38	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-15.00	
			For 14 Gauge Frame, Add	37.50	
			For 12 Gauge Frame, Add	57.00	
08 12 13 13-0054	EA		2'-6" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	310.65	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	22.86	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	18.29	
			For Type 304 Stainless Steel Frame, Add	282.23	
			For Type 316 Stainless Steel Frame, Add	327.95	
			For Baked Enamel Finish, Add	69.46	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-15.24	
			For 14 Gauge Frame, Add	38.10	
			For 12 Gauge Frame, Add	57.91	
08 12 13 13-0055	EA		2'-8" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	324.21	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	22.86	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	18.29	
			For Type 304 Stainless Steel Frame, Add	282.91	
			For Type 316 Stainless Steel Frame, Add	328.63	
			For Baked Enamel Finish, Add	71.49	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-15.24	
			For 14 Gauge Frame, Add	38.10	
			For 12 Gauge Frame, Add	57.91	
08 12 13 13-0056	EA		2'-10" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	331.14	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	23.22	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	18.58	
			For Type 304 Stainless Steel Frame, Add	287.46	
			For Type 316 Stainless Steel Frame, Add	333.90	
			For Baked Enamel Finish, Add	72.89	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-15.48	
			For 14 Gauge Frame, Add	38.70	
			For 12 Gauge Frame, Add	58.82	

08 Openings
08 10 Doors And Frames
08 12 Metal Frames



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0057	EA	3' x >7'-2"	Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	338.05	90.43
			For Auxiliary Frame Reinforcement For Hinges, Add	23.58	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	18.86	
			For Type 304 Stainless Steel Frame, Add	292.00	
			For Type 316 Stainless Steel Frame, Add	339.16	
			For Baked Enamel Finish, Add	74.29	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-15.72	
			For 14 Gauge Frame, Add	39.30	
			For 12 Gauge Frame, Add	59.74	
08 12 13 13-0058	EA	3'-4" x >7'-2"	Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	357.90	94.95
			For Auxiliary Frame Reinforcement For Hinges, Add	25.20	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	20.16	
			For Type 304 Stainless Steel Frame, Add	311.90	
			For Type 316 Stainless Steel Frame, Add	362.30	
			For Baked Enamel Finish, Add	78.89	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.80	
			For 14 Gauge Frame, Add	42.00	
			For 12 Gauge Frame, Add	63.84	
08 12 13 13-0059	EA	3'-6" x >7'-2"	Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	366.94	99.47
			For Auxiliary Frame Reinforcement For Hinges, Add	25.20	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	20.16	
			For Type 304 Stainless Steel Frame, Add	312.35	
			For Type 316 Stainless Steel Frame, Add	362.75	
			For Baked Enamel Finish, Add	80.24	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-16.80	
			For 14 Gauge Frame, Add	42.00	
			For 12 Gauge Frame, Add	63.84	
08 12 13 13-0060	EA	4' x >7'-2"	Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	381.98	103.99
			For Auxiliary Frame Reinforcement For Hinges, Add	26.10	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	20.88	
			For Type 304 Stainless Steel Frame, Add	323.60	
			For Type 316 Stainless Steel Frame, Add	375.80	
			For Baked Enamel Finish, Add	83.40	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-17.40	
			For 14 Gauge Frame, Add	43.50	
			For 12 Gauge Frame, Add	66.12	
08 12 13 13-0061	EA	5' x >7'-2"	Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	397.03	108.51
			For Auxiliary Frame Reinforcement For Hinges, Add	27.00	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	21.60	
			For Type 304 Stainless Steel Frame, Add	334.85	
			For Type 316 Stainless Steel Frame, Add	388.85	
			For Baked Enamel Finish, Add	86.55	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-18.00	
			For 14 Gauge Frame, Add	45.00	
			For 12 Gauge Frame, Add	68.40	
08 12 13 13-0062	EA	5'-4" x >7'-2"	Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	406.07	113.04
			For Auxiliary Frame Reinforcement For Hinges, Add	27.00	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	21.60	
			For Type 304 Stainless Steel Frame, Add	335.30	
			For Type 316 Stainless Steel Frame, Add	389.30	
			For Baked Enamel Finish, Add	87.91	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-18.00	
			For 14 Gauge Frame, Add	45.00	
			For 12 Gauge Frame, Add	68.40	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0063	EA 5'-8" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	413.59		115.30
	For Auxiliary Frame Reinforcement For Hinges, Add	27.45		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	21.96		
	For Type 304 Stainless Steel Frame, Add	340.93		
	For Type 316 Stainless Steel Frame, Add	395.83		
	For Baked Enamel Finish, Add	89.49		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-18.30		
	For 14 Gauge Frame, Add	45.75		
	For 12 Gauge Frame, Add	69.54		
08 12 13 13-0064	EA 6' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	421.11		117.55
	For Auxiliary Frame Reinforcement For Hinges, Add	27.90		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	22.32		
	For Type 304 Stainless Steel Frame, Add	346.56		
	For Type 316 Stainless Steel Frame, Add	402.36		
	For Baked Enamel Finish, Add	91.07		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-18.60		
	For 14 Gauge Frame, Add	46.50		
	For 12 Gauge Frame, Add	70.68		
08 12 13 13-0065	EA 7' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	437.63		119.82
	For Auxiliary Frame Reinforcement For Hinges, Add	29.70		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	23.76		
	For Type 304 Stainless Steel Frame, Add	368.38		
	For Type 316 Stainless Steel Frame, Add	427.78		
	For Baked Enamel Finish, Add	95.34		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-19.80		
	For 14 Gauge Frame, Add	49.50		
	For 12 Gauge Frame, Add	75.24		
08 12 13 13-0066	EA 8' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	454.16		122.08
	For Auxiliary Frame Reinforcement For Hinges, Add	31.50		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	25.20		
	For Type 304 Stainless Steel Frame, Add	390.21		
	For Type 316 Stainless Steel Frame, Add	453.21		
	For Baked Enamel Finish, Add	99.62		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-21.00		
	For 14 Gauge Frame, Add	52.50		
	For 12 Gauge Frame, Add	79.80		
08 12 13 13-0067	6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13)			
08 12 13 13-0068	6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0067)			
08 12 13 13-0069	EA 2' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	315.16		67.82
	For Auxiliary Frame Reinforcement For Hinges, Add	26.93		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	21.54		
	For Type 304 Stainless Steel Frame, Add	329.92		
	For Type 316 Stainless Steel Frame, Add	383.77		
	For Baked Enamel Finish, Add	74.20		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-17.95		
	For 14 Gauge Frame, Add	44.88		
	For 12 Gauge Frame, Add	68.22		
08 12 13 13-0070	EA 2'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	362.93		74.60
	For Auxiliary Frame Reinforcement For Hinges, Add	32.06		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	25.65		
	For Type 304 Stainless Steel Frame, Add	392.16		
	For Type 316 Stainless Steel Frame, Add	456.27		
	For Baked Enamel Finish, Add	86.50		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-21.37		
	For 14 Gauge Frame, Add	53.43		
	For 12 Gauge Frame, Add	81.21		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0071	EA		2'-6" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	375.39	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	32.57	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	26.06	
			For Type 304 Stainless Steel Frame, Add	398.76	
			For Type 316 Stainless Steel Frame, Add	463.91	
			For Baked Enamel Finish, Add	88.88	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-21.71	
			For 14 Gauge Frame, Add	54.29	
			For 12 Gauge Frame, Add	82.51	
08 12 13 13-0072	EA		2'-8" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	388.95	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	32.57	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	26.06	
			For Type 304 Stainless Steel Frame, Add	399.44	
			For Type 316 Stainless Steel Frame, Add	464.58	
			For Baked Enamel Finish, Add	90.91	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-21.71	
			For 14 Gauge Frame, Add	54.29	
			For 12 Gauge Frame, Add	82.51	
08 12 13 13-0073	EA		2'-10" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	396.90	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	33.08	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	26.47	
			For Type 304 Stainless Steel Frame, Add	405.83	
			For Type 316 Stainless Steel Frame, Add	471.99	
			For Baked Enamel Finish, Add	92.62	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-22.06	
			For 14 Gauge Frame, Add	55.14	
			For 12 Gauge Frame, Add	83.81	
08 12 13 13-0074	EA		3' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	404.83	90.43
			For Auxiliary Frame Reinforcement For Hinges, Add	33.60	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	26.88	
			For Type 304 Stainless Steel Frame, Add	412.21	
			For Type 316 Stainless Steel Frame, Add	479.40	
			For Baked Enamel Finish, Add	94.32	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-22.40	
			For 14 Gauge Frame, Add	56.00	
			For 12 Gauge Frame, Add	85.11	
08 12 13 13-0075	EA		3'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	429.27	94.95
			For Auxiliary Frame Reinforcement For Hinges, Add	35.91	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	28.72	
			For Type 304 Stainless Steel Frame, Add	440.36	
			For Type 316 Stainless Steel Frame, Add	512.17	
			For Baked Enamel Finish, Add	100.30	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-23.94	
			For 14 Gauge Frame, Add	59.84	
			For 12 Gauge Frame, Add	90.96	
08 12 13 13-0076	EA		3'-6" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	438.31	99.47
			For Auxiliary Frame Reinforcement For Hinges, Add	35.91	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	28.72	
			For Type 304 Stainless Steel Frame, Add	440.81	
			For Type 316 Stainless Steel Frame, Add	512.62	
			For Baked Enamel Finish, Add	101.65	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-23.94	
			For 14 Gauge Frame, Add	59.84	
			For 12 Gauge Frame, Add	90.96	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0077	EA 4' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	455.89		103.99
	For Auxiliary Frame Reinforcement For Hinges, Add	37.19		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	29.75		
	For Type 304 Stainless Steel Frame, Add	456.64		
	For Type 316 Stainless Steel Frame, Add	531.01		
	For Baked Enamel Finish, Add	105.57		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-24.79		
	For 14 Gauge Frame, Add	61.98		
	For 12 Gauge Frame, Add	94.21		
08 12 13 13-0078	EA 5' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	473.49		108.51
	For Auxiliary Frame Reinforcement For Hinges, Add	38.47		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	30.78		
	For Type 304 Stainless Steel Frame, Add	472.48		
	For Type 316 Stainless Steel Frame, Add	549.42		
	For Baked Enamel Finish, Add	109.49		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-25.65		
	For 14 Gauge Frame, Add	64.12		
	For 12 Gauge Frame, Add	97.45		
08 12 13 13-0079	EA 5'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	482.53		113.04
	For Auxiliary Frame Reinforcement For Hinges, Add	38.47		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	30.78		
	For Type 304 Stainless Steel Frame, Add	472.93		
	For Type 316 Stainless Steel Frame, Add	549.87		
	For Baked Enamel Finish, Add	110.85		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-25.65		
	For 14 Gauge Frame, Add	64.12		
	For 12 Gauge Frame, Add	97.45		
08 12 13 13-0080	EA 5'-8" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	491.33		115.30
	For Auxiliary Frame Reinforcement For Hinges, Add	39.11		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	31.29		
	For Type 304 Stainless Steel Frame, Add	480.86		
	For Type 316 Stainless Steel Frame, Add	559.08		
	For Baked Enamel Finish, Add	112.81		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-26.07		
	For 14 Gauge Frame, Add	65.19		
	For 12 Gauge Frame, Add	99.08		
08 12 13 13-0081	EA 6' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	500.12		117.55
	For Auxiliary Frame Reinforcement For Hinges, Add	39.75		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	31.80		
	For Type 304 Stainless Steel Frame, Add	488.77		
	For Type 316 Stainless Steel Frame, Add	568.28		
	For Baked Enamel Finish, Add	114.77		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-26.50		
	For 14 Gauge Frame, Add	66.25		
	For 12 Gauge Frame, Add	100.70		
08 12 13 13-0082	EA 7' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	521.74		119.82
	For Auxiliary Frame Reinforcement For Hinges, Add	42.32		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	33.85		
	For Type 304 Stainless Steel Frame, Add	519.78		
	For Type 316 Stainless Steel Frame, Add	604.41		
	For Baked Enamel Finish, Add	120.58		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-28.21		
	For 14 Gauge Frame, Add	70.53		
	For 12 Gauge Frame, Add	107.20		

08 Openings
08 10 Doors And Frames
08 12 Metal Frames



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0083	EA		8' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	543.37	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	44.88	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	35.91	
			For Type 304 Stainless Steel Frame, Add	550.79	
			For Type 316 Stainless Steel Frame, Add	640.55	
			For Baked Enamel Finish, Add	126.39	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-29.92	
			For 14 Gauge Frame, Add	74.80	
			For 12 Gauge Frame, Add	113.70	
08 12 13 13-0084			>7'-2" Through 9'-0" High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0067)		
08 12 13 13-0085	EA		2' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	335.11	67.82
			For Auxiliary Frame Reinforcement For Hinges, Add	29.92	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	23.94	
			For Type 304 Stainless Steel Frame, Add	365.83	
			For Type 316 Stainless Steel Frame, Add	425.67	
			For Baked Enamel Finish, Add	80.19	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-19.95	
			For 14 Gauge Frame, Add	49.87	
			For 12 Gauge Frame, Add	75.80	
08 12 13 13-0086	EA		2'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	386.68	74.60
			For Auxiliary Frame Reinforcement For Hinges, Add	35.62	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	28.50	
			For Type 304 Stainless Steel Frame, Add	434.91	
			For Type 316 Stainless Steel Frame, Add	506.15	
			For Baked Enamel Finish, Add	93.62	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-23.75	
			For 14 Gauge Frame, Add	59.37	
			For 12 Gauge Frame, Add	90.24	
08 12 13 13-0087	EA		2'-6" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	399.52	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	36.19	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	28.95	
			For Type 304 Stainless Steel Frame, Add	442.20	
			For Type 316 Stainless Steel Frame, Add	514.58	
			For Baked Enamel Finish, Add	96.12	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-24.13	
			For 14 Gauge Frame, Add	60.32	
			For 12 Gauge Frame, Add	91.68	
08 12 13 13-0088	EA		2'-8" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	413.08	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	36.19	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	28.95	
			For Type 304 Stainless Steel Frame, Add	442.88	
			For Type 316 Stainless Steel Frame, Add	515.26	
			For Baked Enamel Finish, Add	98.15	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-24.13	
			For 14 Gauge Frame, Add	60.32	
			For 12 Gauge Frame, Add	91.68	
08 12 13 13-0089	EA		2'-10" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	421.41	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	36.76	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	29.41	
			For Type 304 Stainless Steel Frame, Add	449.94	
			For Type 316 Stainless Steel Frame, Add	523.46	
			For Baked Enamel Finish, Add	99.97	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-24.51	
			For 14 Gauge Frame, Add	61.27	
			For 12 Gauge Frame, Add	93.13	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Frames	08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0090	EA 3' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	429.71		90.43
	For Auxiliary Frame Reinforcement For Hinges, Add	37.33		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	29.86		
	For Type 304 Stainless Steel Frame, Add	456.99		
	For Type 316 Stainless Steel Frame, Add	531.65		
	For Baked Enamel Finish, Add	101.79		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-24.89		
	For 14 Gauge Frame, Add	62.22		
	For 12 Gauge Frame, Add	94.57		
08 12 13 13-0091	EA 3'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	455.86		94.95
	For Auxiliary Frame Reinforcement For Hinges, Add	39.89		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	31.92		
	For Type 304 Stainless Steel Frame, Add	488.22		
	For Type 316 Stainless Steel Frame, Add	568.01		
	For Baked Enamel Finish, Add	108.27		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-26.60		
	For 14 Gauge Frame, Add	66.49		
	For 12 Gauge Frame, Add	101.06		
08 12 13 13-0092	EA 3'-6" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	464.90		99.47
	For Auxiliary Frame Reinforcement For Hinges, Add	39.89		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	31.92		
	For Type 304 Stainless Steel Frame, Add	488.68		
	For Type 316 Stainless Steel Frame, Add	568.46		
	For Baked Enamel Finish, Add	109.63		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-26.60		
	For 14 Gauge Frame, Add	66.49		
	For 12 Gauge Frame, Add	101.06		
08 12 13 13-0093	EA 4' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	483.44		103.99
	For Auxiliary Frame Reinforcement For Hinges, Add	41.32		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	33.06		
	For Type 304 Stainless Steel Frame, Add	506.23		
	For Type 316 Stainless Steel Frame, Add	588.87		
	For Baked Enamel Finish, Add	113.84		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-27.55		
	For 14 Gauge Frame, Add	68.87		
	For 12 Gauge Frame, Add	104.67		
08 12 13 13-0094	EA 5' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	501.99		108.51
	For Auxiliary Frame Reinforcement For Hinges, Add	42.74		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	34.20		
	For Type 304 Stainless Steel Frame, Add	523.78		
	For Type 316 Stainless Steel Frame, Add	609.27		
	For Baked Enamel Finish, Add	118.04		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-28.50		
	For 14 Gauge Frame, Add	71.24		
	For 12 Gauge Frame, Add	108.28		
08 12 13 13-0095	EA 5'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	511.03		113.04
	For Auxiliary Frame Reinforcement For Hinges, Add	42.74		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	34.20		
	For Type 304 Stainless Steel Frame, Add	524.23		
	For Type 316 Stainless Steel Frame, Add	609.72		
	For Baked Enamel Finish, Add	119.40		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-28.50		
	For 14 Gauge Frame, Add	71.24		
	For 12 Gauge Frame, Add	108.28		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0096	EA		5'-8" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	520.30	115.30
			For Auxiliary Frame Reinforcement For Hinges, Add	43.46	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	34.77	
			For Type 304 Stainless Steel Frame, Add	533.01	
			For Type 316 Stainless Steel Frame, Add	619.92	
			For Baked Enamel Finish, Add	121.50	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-28.97	
			For 14 Gauge Frame, Add	72.43	
			For 12 Gauge Frame, Add	110.09	
08 12 13 13-0097	EA		6' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	529.57	117.55
			For Auxiliary Frame Reinforcement For Hinges, Add	44.17	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	35.34	
			For Type 304 Stainless Steel Frame, Add	541.78	
			For Type 316 Stainless Steel Frame, Add	630.12	
			For Baked Enamel Finish, Add	123.60	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-29.45	
			For 14 Gauge Frame, Add	73.62	
			For 12 Gauge Frame, Add	111.89	
08 12 13 13-0098	EA		7' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	553.08	119.82
			For Auxiliary Frame Reinforcement For Hinges, Add	47.02	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	37.61	
			For Type 304 Stainless Steel Frame, Add	576.19	
			For Type 316 Stainless Steel Frame, Add	670.23	
			For Baked Enamel Finish, Add	129.98	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-31.35	
			For 14 Gauge Frame, Add	78.36	
			For 12 Gauge Frame, Add	119.11	
08 12 13 13-0099	EA		8' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	576.61	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	49.87	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	39.89	
			For Type 304 Stainless Steel Frame, Add	610.62	
			For Type 316 Stainless Steel Frame, Add	710.35	
			For Baked Enamel Finish, Add	136.36	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-33.25	
			For 14 Gauge Frame, Add	83.11	
			For 12 Gauge Frame, Add	126.33	
08 12 13 13-0100			6'-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames ^(08 12 13 13-0100)		
08 12 13 13-0101			6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames ^(08 12 13 13-0100)		
08 12 13 13-0102	EA		2' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	328.63	67.82
			For Auxiliary Frame Reinforcement For Hinges, Add	28.95	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	23.16	
			For Type 304 Stainless Steel Frame, Add	354.16	
			For Type 316 Stainless Steel Frame, Add	412.06	
			For Baked Enamel Finish, Add	78.24	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-19.30	
			For 14 Gauge Frame, Add	48.25	
			For 12 Gauge Frame, Add	73.34	
08 12 13 13-0103	EA		2'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	378.96	74.60
			For Auxiliary Frame Reinforcement For Hinges, Add	34.46	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	27.57	
			For Type 304 Stainless Steel Frame, Add	421.01	
			For Type 316 Stainless Steel Frame, Add	489.94	
			For Baked Enamel Finish, Add	91.31	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-22.98	
			For 14 Gauge Frame, Add	57.44	
			For 12 Gauge Frame, Add	87.31	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0104	EA 2'-6" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	391.67		79.13
	For Auxiliary Frame Reinforcement For Hinges, Add	35.01		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	28.01		
	For Type 304 Stainless Steel Frame, Add	428.07		
	For Type 316 Stainless Steel Frame, Add	498.09		
	For Baked Enamel Finish, Add	93.76		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-23.34		
	For 14 Gauge Frame, Add	58.36		
	For 12 Gauge Frame, Add	88.70		
08 12 13 13-0105	EA 2'-8" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	405.23		85.91
	For Auxiliary Frame Reinforcement For Hinges, Add	35.01		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	28.01		
	For Type 304 Stainless Steel Frame, Add	428.75		
	For Type 316 Stainless Steel Frame, Add	498.77		
	For Baked Enamel Finish, Add	95.80		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-23.34		
	For 14 Gauge Frame, Add	58.36		
	For 12 Gauge Frame, Add	88.70		
08 12 13 13-0106	EA 2'-10" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	413.44		88.17
	For Auxiliary Frame Reinforcement For Hinges, Add	35.57		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	28.45		
	For Type 304 Stainless Steel Frame, Add	435.60		
	For Type 316 Stainless Steel Frame, Add	506.73		
	For Baked Enamel Finish, Add	97.58		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-23.71		
	For 14 Gauge Frame, Add	59.28		
	For 12 Gauge Frame, Add	90.10		
08 12 13 13-0107	EA 3' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	421.63		90.43
	For Auxiliary Frame Reinforcement For Hinges, Add	36.12		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	28.89		
	For Type 304 Stainless Steel Frame, Add	442.45		
	For Type 316 Stainless Steel Frame, Add	514.68		
	For Baked Enamel Finish, Add	99.36		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-24.08		
	For 14 Gauge Frame, Add	60.20		
	For 12 Gauge Frame, Add	91.50		
08 12 13 13-0108	EA 3'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	447.22		94.95
	For Auxiliary Frame Reinforcement For Hinges, Add	38.60		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	30.88		
	For Type 304 Stainless Steel Frame, Add	472.67		
	For Type 316 Stainless Steel Frame, Add	549.87		
	For Baked Enamel Finish, Add	105.68		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-25.73		
	For 14 Gauge Frame, Add	64.33		
	For 12 Gauge Frame, Add	97.78		
08 12 13 13-0109	EA 3'-6" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	456.26		99.47
	For Auxiliary Frame Reinforcement For Hinges, Add	38.60		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	30.88		
	For Type 304 Stainless Steel Frame, Add	473.12		
	For Type 316 Stainless Steel Frame, Add	550.32		
	For Baked Enamel Finish, Add	107.04		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-25.73		
	For 14 Gauge Frame, Add	64.33		
	For 12 Gauge Frame, Add	97.78		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0110	EA		4' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	474.49	103.99
			For Auxiliary Frame Reinforcement For Hinges, Add	39.98	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	31.98	
			For Type 304 Stainless Steel Frame, Add	490.12	
			For Type 316 Stainless Steel Frame, Add	570.07	
			For Baked Enamel Finish, Add	111.15	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-26.65	
			For 14 Gauge Frame, Add	66.63	
			For 12 Gauge Frame, Add	101.27	
08 12 13 13-0111	EA		5' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	492.73	108.51
			For Auxiliary Frame Reinforcement For Hinges, Add	41.36	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	33.08	
			For Type 304 Stainless Steel Frame, Add	507.11	
			For Type 316 Stainless Steel Frame, Add	589.82	
			For Baked Enamel Finish, Add	115.26	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-27.57	
			For 14 Gauge Frame, Add	68.93	
			For 12 Gauge Frame, Add	104.77	
08 12 13 13-0112	EA		5'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	501.77	113.04
			For Auxiliary Frame Reinforcement For Hinges, Add	41.36	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	33.08	
			For Type 304 Stainless Steel Frame, Add	507.56	
			For Type 316 Stainless Steel Frame, Add	590.27	
			For Baked Enamel Finish, Add	116.62	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-27.57	
			For 14 Gauge Frame, Add	68.93	
			For 12 Gauge Frame, Add	104.77	
08 12 13 13-0113	EA		5'-8" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	510.88	115.30
			For Auxiliary Frame Reinforcement For Hinges, Add	42.04	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	33.63	
			For Type 304 Stainless Steel Frame, Add	516.05	
			For Type 316 Stainless Steel Frame, Add	600.14	
			For Baked Enamel Finish, Add	118.68	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-28.03	
			For 14 Gauge Frame, Add	70.07	
			For 12 Gauge Frame, Add	106.51	
08 12 13 13-0114	EA		6' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	520.00	117.55
			For Auxiliary Frame Reinforcement For Hinges, Add	42.73	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	34.19	
			For Type 304 Stainless Steel Frame, Add	524.56	
			For Type 316 Stainless Steel Frame, Add	610.02	
			For Baked Enamel Finish, Add	120.73	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-28.49	
			For 14 Gauge Frame, Add	71.22	
			For 12 Gauge Frame, Add	108.26	
08 12 13 13-0115	EA		7' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	542.90	119.82
			For Auxiliary Frame Reinforcement For Hinges, Add	45.49	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	36.39	
			For Type 304 Stainless Steel Frame, Add	557.87	
			For Type 316 Stainless Steel Frame, Add	648.85	
			For Baked Enamel Finish, Add	126.93	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-30.33	
			For 14 Gauge Frame, Add	75.82	
			For 12 Gauge Frame, Add	115.24	



		Openings	08
		Doors And Frames	08 10
		Metal Frames	08 12

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0116	EA		8' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	565.81	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	48.25	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	38.60	
			For Type 304 Stainless Steel Frame, Add	591.18	
			For Type 316 Stainless Steel Frame, Add	687.67	
			For Baked Enamel Finish, Add	133.12	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-32.17	
			For 14 Gauge Frame, Add	80.41	
			For 12 Gauge Frame, Add	122.23	
08 12 13 13-0117			>7'-2" Through 9'-0" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0100)		
08 12 13 13-0118	EA		2' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	350.07	67.82
			For Auxiliary Frame Reinforcement For Hinges, Add	32.16	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	25.73	
			For Type 304 Stainless Steel Frame, Add	392.76	
			For Type 316 Stainless Steel Frame, Add	457.09	
			For Baked Enamel Finish, Add	84.68	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-21.44	
			For 14 Gauge Frame, Add	53.61	
			For 12 Gauge Frame, Add	81.48	
08 12 13 13-0119	EA		2'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	404.49	74.60
			For Auxiliary Frame Reinforcement For Hinges, Add	38.29	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	30.63	
			For Type 304 Stainless Steel Frame, Add	466.96	
			For Type 316 Stainless Steel Frame, Add	543.55	
			For Baked Enamel Finish, Add	98.97	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-25.53	
			For 14 Gauge Frame, Add	63.82	
			For 12 Gauge Frame, Add	97.01	
08 12 13 13-0120	EA		2'-6" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	417.61	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	38.90	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	31.12	
			For Type 304 Stainless Steel Frame, Add	474.76	
			For Type 316 Stainless Steel Frame, Add	552.57	
			For Baked Enamel Finish, Add	101.55	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-25.94	
			For 14 Gauge Frame, Add	64.84	
			For 12 Gauge Frame, Add	98.56	
08 12 13 13-0121	EA		2'-8" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	431.17	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	38.90	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	31.12	
			For Type 304 Stainless Steel Frame, Add	475.44	
			For Type 316 Stainless Steel Frame, Add	553.25	
			For Baked Enamel Finish, Add	103.58	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-25.94	
			For 14 Gauge Frame, Add	64.84	
			For 12 Gauge Frame, Add	98.56	
08 12 13 13-0122	EA		2'-10" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	439.79	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	39.52	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	31.61	
			For Type 304 Stainless Steel Frame, Add	483.03	
			For Type 316 Stainless Steel Frame, Add	562.06	
			For Baked Enamel Finish, Add	105.49	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-26.35	
			For 14 Gauge Frame, Add	65.86	
			For 12 Gauge Frame, Add	100.11	

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0123	EA	3' x >7'-2"	Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	448.38	90.43
			For Auxiliary Frame Reinforcement For Hinges, Add	40.13	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	32.10	
			For Type 304 Stainless Steel Frame, Add	490.60	
			For Type 316 Stainless Steel Frame, Add	570.86	
			For Baked Enamel Finish, Add	107.39	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-26.75	
			For 14 Gauge Frame, Add	66.88	
			For 12 Gauge Frame, Add	101.66	
08 12 13 13-0124	EA	3'-4" x >7'-2"	Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	475.81	94.95
			For Auxiliary Frame Reinforcement For Hinges, Add	42.89	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	34.31	
			For Type 304 Stainless Steel Frame, Add	524.13	
			For Type 316 Stainless Steel Frame, Add	609.91	
			For Baked Enamel Finish, Add	114.26	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-28.59	
			For 14 Gauge Frame, Add	71.48	
			For 12 Gauge Frame, Add	108.65	
08 12 13 13-0125	EA	3'-6" x >7'-2"	Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	484.85	99.47
			For Auxiliary Frame Reinforcement For Hinges, Add	42.89	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	34.31	
			For Type 304 Stainless Steel Frame, Add	524.59	
			For Type 316 Stainless Steel Frame, Add	610.36	
			For Baked Enamel Finish, Add	115.61	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-28.59	
			For 14 Gauge Frame, Add	71.48	
			For 12 Gauge Frame, Add	108.65	
08 12 13 13-0126	EA	4' x >7'-2"	Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	504.10	103.99
			For Auxiliary Frame Reinforcement For Hinges, Add	44.42	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	35.53	
			For Type 304 Stainless Steel Frame, Add	543.42	
			For Type 316 Stainless Steel Frame, Add	632.25	
			For Baked Enamel Finish, Add	120.03	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-29.61	
			For 14 Gauge Frame, Add	74.03	
			For 12 Gauge Frame, Add	112.53	
08 12 13 13-0127	EA	5' x >7'-2"	Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame.....	523.36	108.51
			For Auxiliary Frame Reinforcement For Hinges, Add	45.95	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	36.76	
			For Type 304 Stainless Steel Frame, Add	562.25	
			For Type 316 Stainless Steel Frame, Add	654.14	
			For Baked Enamel Finish, Add	124.45	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-30.63	
			For 14 Gauge Frame, Add	76.58	
			For 12 Gauge Frame, Add	116.41	
08 12 13 13-0128	EA	5'-4" x >7'-2"	Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	532.40	113.04
			For Auxiliary Frame Reinforcement For Hinges, Add	45.95	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	36.76	
			For Type 304 Stainless Steel Frame, Add	562.70	
			For Type 316 Stainless Steel Frame, Add	654.60	
			For Baked Enamel Finish, Add	125.81	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-30.63	
			For 14 Gauge Frame, Add	76.58	
			For 12 Gauge Frame, Add	116.41	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Frames	08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0129	EA 5'-8" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	542.03		115.30
	For Auxiliary Frame Reinforcement For Hinges, Add	46.72		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	37.37		
	For Type 304 Stainless Steel Frame, Add	572.12		
	For Type 316 Stainless Steel Frame, Add	665.55		
	For Baked Enamel Finish, Add	128.02		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-31.14		
	For 14 Gauge Frame, Add	77.86		
	For 12 Gauge Frame, Add	118.35		
08 12 13 13-0130	EA 6' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	551.65		117.55
	For Auxiliary Frame Reinforcement For Hinges, Add	47.48		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	37.98		
	For Type 304 Stainless Steel Frame, Add	581.53		
	For Type 316 Stainless Steel Frame, Add	676.49		
	For Baked Enamel Finish, Add	130.23		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-31.65		
	For 14 Gauge Frame, Add	79.14		
	For 12 Gauge Frame, Add	120.29		
08 12 13 13-0131	EA 7' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	576.59		119.82
	For Auxiliary Frame Reinforcement For Hinges, Add	50.54		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	40.44		
	For Type 304 Stainless Steel Frame, Add	618.51		
	For Type 316 Stainless Steel Frame, Add	719.60		
	For Baked Enamel Finish, Add	137.03		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-33.70		
	For 14 Gauge Frame, Add	84.24		
	For 12 Gauge Frame, Add	128.04		
08 12 13 13-0132	EA 8' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Metal Door Frame	601.55		122.08
	For Auxiliary Frame Reinforcement For Hinges, Add	53.61		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	42.89		
	For Type 304 Stainless Steel Frame, Add	655.51		
	For Type 316 Stainless Steel Frame, Add	762.73		
	For Baked Enamel Finish, Add	143.84		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-35.74		
	For 14 Gauge Frame, Add	89.35		
	For 12 Gauge Frame, Add	135.81		
08 12 13 13-0133	8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13			
13)				
08 12 13 13-0134	6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down			
	Metal Door Frames (08 12 13 13-0133)			
08 12 13 13-0135	EA 2' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	337.61		67.82
	For Auxiliary Frame Reinforcement For Hinges, Add	30.30		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	24.24		
	For Type 304 Stainless Steel Frame, Add	370.33		
	For Type 316 Stainless Steel Frame, Add	430.92		
	For Baked Enamel Finish, Add	80.94		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-20.20		
	For 14 Gauge Frame, Add	50.49		
	For 12 Gauge Frame, Add	76.75		
08 12 13 13-0136	EA 2'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	389.64		74.60
	For Auxiliary Frame Reinforcement For Hinges, Add	36.06		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	28.85		
	For Type 304 Stainless Steel Frame, Add	440.23		
	For Type 316 Stainless Steel Frame, Add	512.36		
	For Baked Enamel Finish, Add	94.51		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-24.04		
	For 14 Gauge Frame, Add	60.11		
	For 12 Gauge Frame, Add	91.36		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0137	EA		2'-6" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	402.53	79.13
			For Auxiliary Frame Reinforcement For Hinges, Add	36.64	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	29.31	
			For Type 304 Stainless Steel Frame, Add	447.62	
			For Type 316 Stainless Steel Frame, Add	520.90	
			For Baked Enamel Finish, Add	97.02	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-24.43	
			For 14 Gauge Frame, Add	61.07	
			For 12 Gauge Frame, Add	92.83	
08 12 13 13-0138	EA		2'-8" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	416.09	85.91
			For Auxiliary Frame Reinforcement For Hinges, Add	36.64	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	29.31	
			For Type 304 Stainless Steel Frame, Add	448.29	
			For Type 316 Stainless Steel Frame, Add	521.58	
			For Baked Enamel Finish, Add	99.06	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-24.43	
			For 14 Gauge Frame, Add	61.07	
			For 12 Gauge Frame, Add	92.83	
08 12 13 13-0139	EA		2'-10" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	424.47	88.17
			For Auxiliary Frame Reinforcement For Hinges, Add	37.22	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	29.78	
			For Type 304 Stainless Steel Frame, Add	455.45	
			For Type 316 Stainless Steel Frame, Add	529.89	
			For Baked Enamel Finish, Add	100.89	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-24.81	
			For 14 Gauge Frame, Add	62.03	
			For 12 Gauge Frame, Add	94.29	
08 12 13 13-0140	EA		3' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	432.83	90.43
			For Auxiliary Frame Reinforcement For Hinges, Add	37.80	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	30.24	
			For Type 304 Stainless Steel Frame, Add	462.61	
			For Type 316 Stainless Steel Frame, Add	538.20	
			For Baked Enamel Finish, Add	102.72	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-25.20	
			For 14 Gauge Frame, Add	63.00	
			For 12 Gauge Frame, Add	95.75	
08 12 13 13-0141	EA		3'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	459.19	94.95
			For Auxiliary Frame Reinforcement For Hinges, Add	40.39	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	32.31	
			For Type 304 Stainless Steel Frame, Add	494.22	
			For Type 316 Stainless Steel Frame, Add	575.00	
			For Baked Enamel Finish, Add	109.27	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-26.93	
			For 14 Gauge Frame, Add	67.32	
			For 12 Gauge Frame, Add	102.33	
08 12 13 13-0142	EA		3'-6" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	468.23	99.47
			For Auxiliary Frame Reinforcement For Hinges, Add	40.39	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	32.31	
			For Type 304 Stainless Steel Frame, Add	494.67	
			For Type 316 Stainless Steel Frame, Add	575.46	
			For Baked Enamel Finish, Add	110.63	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-26.93	
			For 14 Gauge Frame, Add	67.32	
			For 12 Gauge Frame, Add	102.33	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 12 13 13-0143	EA 4' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	486.88		103.99
	For Auxiliary Frame Reinforcement For Hinges, Add	41.84		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	33.47		
	For Type 304 Stainless Steel Frame, Add	512.42		
	For Type 316 Stainless Steel Frame, Add	596.09		
	For Baked Enamel Finish, Add	114.87		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-27.89		
	For 14 Gauge Frame, Add	69.73		
	For 12 Gauge Frame, Add	105.98		
08 12 13 13-0144	EA 5' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	505.55		108.51
	For Auxiliary Frame Reinforcement For Hinges, Add	43.28		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	34.62		
	For Type 304 Stainless Steel Frame, Add	530.19		
	For Type 316 Stainless Steel Frame, Add	616.74		
	For Baked Enamel Finish, Add	119.11		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-28.85		
	For 14 Gauge Frame, Add	72.13		
	For 12 Gauge Frame, Add	109.64		
08 12 13 13-0145	EA 5'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	514.59		113.04
	For Auxiliary Frame Reinforcement For Hinges, Add	43.28		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	34.62		
	For Type 304 Stainless Steel Frame, Add	530.64		
	For Type 316 Stainless Steel Frame, Add	617.20		
	For Baked Enamel Finish, Add	120.47		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-28.85		
	For 14 Gauge Frame, Add	72.13		
	For 12 Gauge Frame, Add	109.64		
08 12 13 13-0146	EA 5'-8" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	523.92		115.30
	For Auxiliary Frame Reinforcement For Hinges, Add	44.00		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	35.20		
	For Type 304 Stainless Steel Frame, Add	539.52		
	For Type 316 Stainless Steel Frame, Add	627.52		
	For Baked Enamel Finish, Add	122.59		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-29.33		
	For 14 Gauge Frame, Add	73.33		
	For 12 Gauge Frame, Add	111.47		
08 12 13 13-0147	EA 6' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	533.25		117.55
	For Auxiliary Frame Reinforcement For Hinges, Add	44.72		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	35.78		
	For Type 304 Stainless Steel Frame, Add	548.41		
	For Type 316 Stainless Steel Frame, Add	637.85		
	For Baked Enamel Finish, Add	124.71		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-29.81		
	For 14 Gauge Frame, Add	74.54		
	For 12 Gauge Frame, Add	113.29		
08 12 13 13-0148	EA 7' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	557.00		119.82
	For Auxiliary Frame Reinforcement For Hinges, Add	47.61		
	For Welded Frames, Add	59.50		
	For Galvanized Frames, Add	38.08		
	For Type 304 Stainless Steel Frame, Add	583.25		
	For Type 316 Stainless Steel Frame, Add	678.46		
	For Baked Enamel Finish, Add	131.16		
	For 3/4 Hour Rating, Add	36.84		
	For 1-1/2 Hour Rating, Add	42.10		
	For 3 Hour Rating, Add	52.63		
	For 18 Gauge Frame, Deduct	-31.74		
	For 14 Gauge Frame, Add	79.34		
	For 12 Gauge Frame, Add	120.60		

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0149 EA 8' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame.....	580.77	122.08
For Auxiliary Frame Reinforcement For Hinges, Add	50.49	
For Welded Frames, Add	59.50	
For Galvanized Frames, Add	40.39	
For Type 304 Stainless Steel Frame, Add	618.11	
For Type 316 Stainless Steel Frame, Add	719.09	
For Baked Enamel Finish, Add	137.61	
For 3/4 Hour Rating, Add	36.84	
For 1-1/2 Hour Rating, Add	42.10	
For 3 Hour Rating, Add	52.63	
For 18 Gauge Frame, Deduct	-33.66	
For 14 Gauge Frame, Add	84.15	
For 12 Gauge Frame, Add	127.91	
08 12 13 13-0150 >7'-2" Through 9'-0" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frames (08 12 13 13-0133)		
08 12 13 13-0151 EA 2' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame.....	360.05	67.82
For Auxiliary Frame Reinforcement For Hinges, Add	33.66	
For Welded Frames, Add	59.50	
For Galvanized Frames, Add	26.93	
For Type 304 Stainless Steel Frame, Add	410.72	
For Type 316 Stainless Steel Frame, Add	478.04	
For Baked Enamel Finish, Add	87.67	
For 3/4 Hour Rating, Add	36.84	
For 1-1/2 Hour Rating, Add	42.10	
For 3 Hour Rating, Add	52.63	
For 18 Gauge Frame, Deduct	-22.44	
For 14 Gauge Frame, Add	56.10	
For 12 Gauge Frame, Add	85.28	
08 12 13 13-0152 EA 2'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	416.36	74.60
For Auxiliary Frame Reinforcement For Hinges, Add	40.07	
For Welded Frames, Add	59.50	
For Galvanized Frames, Add	32.06	
For Type 304 Stainless Steel Frame, Add	488.33	
For Type 316 Stainless Steel Frame, Add	568.48	
For Baked Enamel Finish, Add	102.53	
For 3/4 Hour Rating, Add	36.84	
For 1-1/2 Hour Rating, Add	42.10	
For 3 Hour Rating, Add	52.63	
For 18 Gauge Frame, Deduct	-26.72	
For 14 Gauge Frame, Add	66.79	
For 12 Gauge Frame, Add	101.52	
08 12 13 13-0153 EA 2'-6" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	429.67	79.13
For Auxiliary Frame Reinforcement For Hinges, Add	40.71	
For Welded Frames, Add	59.50	
For Galvanized Frames, Add	32.57	
For Type 304 Stainless Steel Frame, Add	496.47	
For Type 316 Stainless Steel Frame, Add	577.89	
For Baked Enamel Finish, Add	105.16	
For 3/4 Hour Rating, Add	36.84	
For 1-1/2 Hour Rating, Add	42.10	
For 3 Hour Rating, Add	52.63	
For 18 Gauge Frame, Deduct	-27.14	
For 14 Gauge Frame, Add	67.86	
For 12 Gauge Frame, Add	103.14	
08 12 13 13-0154 EA 2'-8" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	443.23	85.91
For Auxiliary Frame Reinforcement For Hinges, Add	40.71	
For Welded Frames, Add	59.50	
For Galvanized Frames, Add	32.57	
For Type 304 Stainless Steel Frame, Add	497.15	
For Type 316 Stainless Steel Frame, Add	578.57	
For Baked Enamel Finish, Add	107.20	
For 3/4 Hour Rating, Add	36.84	
For 1-1/2 Hour Rating, Add	42.10	
For 3 Hour Rating, Add	52.63	
For 18 Gauge Frame, Deduct	-27.14	
For 14 Gauge Frame, Add	67.86	
For 12 Gauge Frame, Add	103.14	
08 12 13 13-0155 EA 2'-10" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	452.04	88.17
For Auxiliary Frame Reinforcement For Hinges, Add	41.36	
For Welded Frames, Add	59.50	
For Galvanized Frames, Add	33.08	
For Type 304 Stainless Steel Frame, Add	505.08	
For Type 316 Stainless Steel Frame, Add	587.79	
For Baked Enamel Finish, Add	109.16	
For 3/4 Hour Rating, Add	36.84	
For 1-1/2 Hour Rating, Add	42.10	
For 3 Hour Rating, Add	52.63	
For 18 Gauge Frame, Deduct	-27.57	
For 14 Gauge Frame, Add	68.93	
For 12 Gauge Frame, Add	104.77	



Openings		08	08
Doors And Frames		08 10	
Metal Frames		08 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0156	EA	3' x >7'-2"	Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	460.82	90.43
			For Auxiliary Frame Reinforcement For Hinges, Add	42.00	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	33.60	
			For Type 304 Stainless Steel Frame, Add	512.99	
			For Type 316 Stainless Steel Frame, Add	596.98	
			For Baked Enamel Finish, Add	111.12	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-28.00	
			For 14 Gauge Frame, Add	69.99	
			For 12 Gauge Frame, Add	106.39	
08 12 13 13-0157	EA	3'-4" x >7'-2"	Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	489.11	94.95
			For Auxiliary Frame Reinforcement For Hinges, Add	44.88	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	35.91	
			For Type 304 Stainless Steel Frame, Add	548.07	
			For Type 316 Stainless Steel Frame, Add	637.84	
			For Baked Enamel Finish, Add	118.25	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-29.92	
			For 14 Gauge Frame, Add	74.80	
			For 12 Gauge Frame, Add	113.70	
08 12 13 13-0158	EA	3'-6" x >7'-2"	Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	498.15	99.47
			For Auxiliary Frame Reinforcement For Hinges, Add	44.88	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	35.91	
			For Type 304 Stainless Steel Frame, Add	548.53	
			For Type 316 Stainless Steel Frame, Add	638.29	
			For Baked Enamel Finish, Add	119.60	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-29.92	
			For 14 Gauge Frame, Add	74.80	
			For 12 Gauge Frame, Add	113.70	
08 12 13 13-0159	EA	4' x >7'-2"	Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	517.87	103.99
			For Auxiliary Frame Reinforcement For Hinges, Add	46.48	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	37.19	
			For Type 304 Stainless Steel Frame, Add	568.20	
			For Type 316 Stainless Steel Frame, Add	661.17	
			For Baked Enamel Finish, Add	124.16	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-30.99	
			For 14 Gauge Frame, Add	77.47	
			For 12 Gauge Frame, Add	117.76	
08 12 13 13-0160	EA	5' x >7'-2"	Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	537.61	108.51
			For Auxiliary Frame Reinforcement For Hinges, Add	48.09	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	38.47	
			For Type 304 Stainless Steel Frame, Add	587.90	
			For Type 316 Stainless Steel Frame, Add	684.07	
			For Baked Enamel Finish, Add	128.73	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-32.06	
			For 14 Gauge Frame, Add	80.15	
			For 12 Gauge Frame, Add	121.82	
08 12 13 13-0161	EA	5'-4" x >7'-2"	Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	546.65	113.04
			For Auxiliary Frame Reinforcement For Hinges, Add	48.09	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	38.47	
			For Type 304 Stainless Steel Frame, Add	588.35	
			For Type 316 Stainless Steel Frame, Add	684.52	
			For Baked Enamel Finish, Add	130.08	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-32.06	
			For 14 Gauge Frame, Add	80.15	
			For 12 Gauge Frame, Add	121.82	

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0162	EA		5'-8" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	556.51	115.30
			For Auxiliary Frame Reinforcement For Hinges, Add	48.89	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	39.11	
			For Type 304 Stainless Steel Frame, Add	598.19	
			For Type 316 Stainless Steel Frame, Add	695.96	
			For Baked Enamel Finish, Add	132.36	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-32.59	
			For 14 Gauge Frame, Add	81.48	
			For 12 Gauge Frame, Add	123.85	
08 12 13 13-0163	EA		6' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	566.38	117.55
			For Auxiliary Frame Reinforcement For Hinges, Add	49.69	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	39.75	
			For Type 304 Stainless Steel Frame, Add	608.04	
			For Type 316 Stainless Steel Frame, Add	707.42	
			For Baked Enamel Finish, Add	134.65	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-33.13	
			For 14 Gauge Frame, Add	82.82	
			For 12 Gauge Frame, Add	125.88	
08 12 13 13-0164	EA		7' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	592.26	119.82
			For Auxiliary Frame Reinforcement For Hinges, Add	52.89	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	42.32	
			For Type 304 Stainless Steel Frame, Add	646.72	
			For Type 316 Stainless Steel Frame, Add	752.50	
			For Baked Enamel Finish, Add	141.73	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-35.26	
			For 14 Gauge Frame, Add	88.16	
			For 12 Gauge Frame, Add	134.00	
08 12 13 13-0165	EA		8' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Metal Door Frame	618.17	122.08
			For Auxiliary Frame Reinforcement For Hinges, Add	56.10	
			For Welded Frames, Add	59.50	
			For Galvanized Frames, Add	44.88	
			For Type 304 Stainless Steel Frame, Add	685.43	
			For Type 316 Stainless Steel Frame, Add	797.63	
			For Baked Enamel Finish, Add	148.83	
			For 3/4 Hour Rating, Add	36.84	
			For 1-1/2 Hour Rating, Add	42.10	
			For 3 Hour Rating, Add	52.63	
			For 18 Gauge Frame, Deduct	-37.40	
			For 14 Gauge Frame, Add	93.50	
			For 12 Gauge Frame, Add	142.12	
08 12 13 13-0166			Sidelights And Transoms (08 12 13 13)		
08 12 13 13-0167			Fixed Steel Transoms (08 12 13 13-0166)		
			Note: Excludes glazing.		
08 12 13 13-0168	SF		4-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom	43.48	12.66
			For Movable Frame, Add	8.70	
			For 18 Gauge Frame, Deduct	-1.82	
			For 14 Gauge Frame, Add	4.54	
			For 12 Gauge Frame, Add	6.90	
08 12 13 13-0169	SF		5-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom	45.28	13.11
			For Movable Frame, Add	9.06	
			For 18 Gauge Frame, Deduct	-1.91	
			For 14 Gauge Frame, Add	4.77	
			For 12 Gauge Frame, Add	7.24	
08 12 13 13-0170	SF		6-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom	47.15	13.56
			For Movable Frame, Add	9.43	
			For 18 Gauge Frame, Deduct	-2.00	
			For 14 Gauge Frame, Add	5.01	
			For 12 Gauge Frame, Add	7.61	
08 12 13 13-0171			Operable Steel Transom Sash (08 12 13 13-0166)		
			Note: Includes hardware.		
08 12 13 13-0172	SF		4-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash	55.75	12.66
			For 18 Gauge Frame, Deduct	-3.04	
			For 14 Gauge Frame, Add	7.61	
			For 12 Gauge Frame, Add	11.56	
08 12 13 13-0173	SF		5-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash	58.18	13.11
			For 18 Gauge Frame, Deduct	-3.20	
			For 14 Gauge Frame, Add	7.99	
			For 12 Gauge Frame, Add	12.14	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Frames	08 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0174	SF		6-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	60.68 -3.36 8.39 12.75	13.56
08 12 13 13-0175 Sidelights, Steel Frame (08 12 13 13-0166) Note: Excludes glazing.					
08 12 13 13-0176	SF		4-3/4" Deep Sidelights, 16 Gauge Frame <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	44.84 -1.95 4.88 7.42	12.66
08 12 13 13-0177	SF		5-3/4" Deep Sidelights, 16 Gauge Frame <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	46.72 -2.05 5.13 7.79	13.11
08 12 13 13-0178	SF		6-3/4" Deep Sidelights, 16 Gauge Frame <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	48.64 -2.15 5.38 8.17	13.56
08 12 13 13-0179 Sundry Hollow Metal Frame Sections (08 12 13 13)					
08 12 13 13-0180 Verticals, Mullions (08 12 13 13-0179)					
08 12 13 13-0181	LF		4-3/4" x 1-3/4" Mullions, Vertical 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	27.29 -1.46 3.64 5.53 8.00 5.00 4.00	5.06
08 12 13 13-0182	LF		4-3/4" x 2" Mullions, Vertical 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	27.88 -1.51 3.79 5.75 8.00 5.00 4.00	5.06
08 12 13 13-0183	LF		5-1/4" x 1-3/4" Mullions, Vertical 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	27.66 -1.46 3.64 5.53 8.00 5.00 4.00	5.24
08 12 13 13-0184	LF		5-1/4" x 2" Mullions, Vertical 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	28.57 -1.55 3.87 5.87 8.00 5.00 4.00	5.24
08 12 13 13-0185	LF		6-3/4" x 1-3/4" Mullions, Vertical 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	28.68 -1.53 3.82 5.81 8.00 5.00 4.00	5.33
08 12 13 13-0186	LF		6-3/4" x 2" Mullions, Vertical 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	29.03 -1.56 3.91 5.94 8.00 5.00 4.00	5.33
08 12 13 13-0187 Horizontals, Rails (08 12 13 13-0179)					
08 12 13 13-0188	LF		4-3/4" x 1-3/4" Rails, Horizontal 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	20.02 -0.73 1.82 2.77 8.00 5.00 4.00	5.06
08 12 13 13-0189	LF		4-3/4" x 2" Rails, Horizontal 16 Gauge Hollow Metal Frame Section..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	20.76 -0.80 2.01 3.05 8.00 5.00 4.00	5.06

08 Openings**08 10 Doors And Frames****08 12 Metal Frames**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0190 LF 5-1/4" x 1-3/4" Rails, Horizontal 16 Gauge Hollow Metal Frame Section.....	20.39	5.24
For 18 Gauge Frame, Deduct	-0.73	
For 14 Gauge Frame, Add	1.82	
For 12 Gauge Frame, Add	2.77	
For 3 Hour Frame, Add	8.00	
For 1-1/2 Hour Frame, Add	5.00	
For 3/4 Hour Frame, Add	4.00	
08 12 13 13-0191 LF 5-1/4" x 2" Rails, Horizontal 16 Gauge Hollow Metal Frame Section.....	21.13	5.24
For 18 Gauge Frame, Deduct	-0.80	
For 14 Gauge Frame, Add	2.01	
For 12 Gauge Frame, Add	3.05	
For 3 Hour Frame, Add	8.00	
For 1-1/2 Hour Frame, Add	5.00	
For 3/4 Hour Frame, Add	4.00	
08 12 13 13-0192 LF 6-3/4" x 1-3/4" Rails, Horizontal 16 Gauge Hollow Metal Frame Section.....	21.04	5.33
For 18 Gauge Frame, Deduct	-0.76	
For 14 Gauge Frame, Add	1.91	
For 12 Gauge Frame, Add	2.90	
For 3 Hour Frame, Add	8.00	
For 1-1/2 Hour Frame, Add	5.00	
For 3/4 Hour Frame, Add	4.00	
08 12 13 13-0193 LF 6-3/4" x 2" Rails, Horizontal 16 Gauge Hollow Metal Frame Section.....	21.69	5.33
For 18 Gauge Frame, Deduct	-0.83	
For 14 Gauge Frame, Add	2.07	
For 12 Gauge Frame, Add	3.15	
For 3 Hour Frame, Add	8.00	
For 1-1/2 Hour Frame, Add	5.00	
For 3/4 Hour Frame, Add	4.00	
08 12 13 13-0194 Removable Verticals, Mullions (08 12 13 13-0179)		
08 12 13 13-0195 EA 4-3/4" x 1-3/4" x 7" Keyed Removable Mullions, Vertical 16 Gauge Hollow Metal Frame Section.....	666.13	35.45
For 18 Gauge Frame, Deduct	-57.75	
For 14 Gauge Frame, Add	144.38	
For 12 Gauge Frame, Add	219.45	
08 12 13 13-0196 EA 4-3/4" x 2" x 7" Keyed Removable Mullions, Vertical 16 Gauge Hollow Metal Frame Section	689.17	35.45
For 18 Gauge Frame, Deduct	-60.06	
For 14 Gauge Frame, Add	150.14	
For 12 Gauge Frame, Add	228.21	
08 12 13 13-0197 EA 5-1/4" x 1-3/4" x 7" Keyed Removable Mullions, Vertical 16 Gauge Hollow Metal Frame Section.....	761.81	37.08
For 18 Gauge Frame, Deduct	-67.05	
For 14 Gauge Frame, Add	167.62	
For 12 Gauge Frame, Add	254.78	
For 3 Hour Frame, Add	56.00	
For 1-1/2 Hour Frame, Add	36.00	
For 3/4 Hour Frame, Add	28.00	
08 12 13 13-0198 EA 5-1/4" x 2" x 7" Keyed Removable Mullions, Vertical 16 Gauge Hollow Metal Frame Section	782.37	37.08
For 18 Gauge Frame, Deduct	-69.10	
For 14 Gauge Frame, Add	172.76	
For 12 Gauge Frame, Add	262.60	
For 3 Hour Frame, Add	56.00	
For 1-1/2 Hour Frame, Add	36.00	
For 3/4 Hour Frame, Add	28.00	
08 12 13 13-0199 EA 6-3/4" x 1-3/4" x 7" Keyed Removable Mullions, Vertical 16 Gauge Hollow Metal Frame Section.....	883.07	37.98
For 18 Gauge Frame, Deduct	-78.81	
For 14 Gauge Frame, Add	197.03	
For 12 Gauge Frame, Add	299.49	
For 3 Hour Frame, Add	56.00	
For 1-1/2 Hour Frame, Add	36.00	
For 3/4 Hour Frame, Add	28.00	
08 12 13 13-0200 EA 6-3/4" x 2" x 7" Keyed Removable Mullions, Vertical 16 Gauge Hollow Metal Frame Section	897.05	37.98
For 18 Gauge Frame, Deduct	-80.21	
For 14 Gauge Frame, Add	200.53	
For 12 Gauge Frame, Add	304.80	
For 3 Hour Frame, Add	56.00	
For 1-1/2 Hour Frame, Add	36.00	
For 3/4 Hour Frame, Add	28.00	
08 12 13 13-0201 Metal Frames Accessories (08 12 13 13)		
08 12 13 13-0202 EA For 1 Foot Extension Of New Door Frame.....	26.12	
08 12 16 Aluminum Frames (08 12)		
08 12 16 00-0001 Aluminum 1/8" Two Pieces (08 12 16)		
08 12 16 00-0002 4-1/8" x 3/8" (08 12 16 00-0001)		
08 12 16 00-0003 EA 2 Piece Aluminum Door Frame, 2'-2" x 6'-9" Opening 4-1/8" x 3/8" x 1/8" With Semicircular Head.....	931.40	49.73
08 12 16 00-0004 EA 2 Piece Aluminum Door Frame, 2'-6" x 6'-9" Opening 4-1/8" x 3/8" x 1/8" With Semicircular Head.....	931.40	49.73
08 12 16 00-0005 4-3/4" x 1-3/8" (08 12 16 00-0001)		
08 12 16 00-0006 EA 2 Piece Aluminum Door Frame, 2'-2" x 6'-9" Opening 4-3/4" x 1-3/8" x 1/8" With Semicircular Head.....	931.40	49.73
08 12 16 00-0007 EA 2 Piece Aluminum Door Frame, 2'-6" x 6'-9" Opening 4-3/4" x 1-3/8" x 1/8" With Semicircular Head.....	931.40	49.73



		Openings	08
		Doors And Frames	08 10
		Metal Frames	08 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 13 Metal Doors (08 10)

Note: Includes machining for all hardware. Excludes finish hardware.

08 13 13 Hollow Metal Doors (08 13)**08 13 13 13 Standard Hollow Metal Doors** (08 13 13)

Note: Full flush, impregnated honeycomb core, epoxy baked-on primer.

08 13 13 13-0001 20 Gauge 1-3/4" Unrated Door (08 13 13 13)

08 13 13 13-0002 6'-8" High (08 13 13 13-0001)

08 13 13 13-0003	EA	2' x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	434.96	49.73
		For Composite Door Instead Of Full Panel Door, Add	15.10	
		For Type 304 Stainless Steel Door, Add	273.37	
		For Type 316 Stainless Steel Door, Add	441.11	
		For Embossed Panel, Add	80.52	
		For Galvanized Steel, Add	50.32	
		For Baked Enamel Finish, Add	160.33	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
		For 45 Minutes Rated Door And FM Label, Add	41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
		For >50 To 100, Deduct	-24.23	
		For >100, Deduct	-35.11	
		For Insulated Door (Polystyrene Core), Add	33.55	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	83.87	
		For Seamless Edge (Welded), Add	41.94	
08 13 13 13-0004	EA	2'-4" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	434.96	49.73
		For Composite Door Instead Of Full Panel Door, Add	15.10	
		For Type 304 Stainless Steel Door, Add	273.37	
		For Type 316 Stainless Steel Door, Add	441.11	
		For Embossed Panel, Add	80.52	
		For Galvanized Steel, Add	50.32	
		For Baked Enamel Finish, Add	160.33	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
		For 45 Minutes Rated Door And FM Label, Add	41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
		For >50 To 100, Deduct	-24.23	
		For >100, Deduct	-35.11	
		For Insulated Door (Polystyrene Core), Add	33.55	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	83.87	
		For Seamless Edge (Welded), Add	41.94	
08 13 13 13-0005	EA	2'-6" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	446.34	52.00
		For Composite Door Instead Of Full Panel Door, Add	15.41	
		For Type 304 Stainless Steel Door, Add	279.08	
		For Type 316 Stainless Steel Door, Add	450.25	
		For Embossed Panel, Add	82.16	
		For Galvanized Steel, Add	51.35	
		For Baked Enamel Finish, Add	165.10	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
		For 45 Minutes Rated Door And FM Label, Add	41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
		For >50 To 100, Deduct	-24.92	
		For >100, Deduct	-36.08	
		For Insulated Door (Polystyrene Core), Add	34.24	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	85.59	
		For Seamless Edge (Welded), Add	42.79	
08 13 13 13-0006	EA	2'-8" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	451.45	52.00
		For Composite Door Instead Of Full Panel Door, Add	15.64	
		For Type 304 Stainless Steel Door, Add	283.17	
		For Type 316 Stainless Steel Door, Add	456.90	
		For Embossed Panel, Add	83.39	
		For Galvanized Steel, Add	52.12	
		For Baked Enamel Finish, Add	166.63	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
		For 45 Minutes Rated Door And FM Label, Add	41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
		For >50 To 100, Deduct	-25.17	
		For >100, Deduct	-36.46	
		For Insulated Door (Polystyrene Core), Add	34.75	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	86.87	
		For Seamless Edge (Welded), Add	43.43	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13-0007	EA		2'-10" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	455.77	53.12
			For Composite Door Instead Of Full Panel Door, Add	15.73	
			For Type 304 Stainless Steel Door, Add	284.92	
			For Type 316 Stainless Steel Door, Add	459.68	
			For Embossed Panel, Add	83.88	
			For Galvanized Steel, Add	52.43	
			For Baked Enamel Finish, Add	168.61	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.45	
			For >100, Deduct	-36.84	
			For Insulated Door (Polystyrene Core), Add	34.95	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	87.38	
			For Seamless Edge (Welded), Add	43.69	
08 13 13-0008	EA		3' x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	460.06	54.26
			For Composite Door Instead Of Full Panel Door, Add	15.82	
			For Type 304 Stainless Steel Door, Add	286.67	
			For Type 316 Stainless Steel Door, Add	462.44	
			For Embossed Panel, Add	84.37	
			For Galvanized Steel, Add	52.73	
			For Baked Enamel Finish, Add	170.57	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.72	
			For >100, Deduct	-37.22	
			For Insulated Door (Polystyrene Core), Add	35.16	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	87.89	
			For Seamless Edge (Welded), Add	43.94	
08 13 13-0009	EA		3'-4" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	486.63	54.26
			For Composite Door Instead Of Full Panel Door, Add	17.02	
			For Type 304 Stainless Steel Door, Add	307.92	
			For Type 316 Stainless Steel Door, Add	496.98	
			For Embossed Panel, Add	90.75	
			For Galvanized Steel, Add	56.72	
			For Baked Enamel Finish, Add	178.54	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.04	
			For >100, Deduct	-39.21	
			For Insulated Door (Polystyrene Core), Add	37.81	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	94.53	
			For Seamless Edge (Welded), Add	47.27	
08 13 13-0010	EA		3'-6" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	501.38	56.51
			For Composite Door Instead Of Full Panel Door, Add	17.48	
			For Type 304 Stainless Steel Door, Add	316.32	
			For Type 316 Stainless Steel Door, Add	510.49	
			For Embossed Panel, Add	93.20	
			For Galvanized Steel, Add	58.25	
			For Baked Enamel Finish, Add	184.33	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.90	
			For >100, Deduct	-40.43	
			For Insulated Door (Polystyrene Core), Add	38.83	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	97.09	
			For Seamless Edge (Welded), Add	48.54	
08 13 13-0011	EA		4' x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	551.30	61.04
			For Composite Door Instead Of Full Panel Door, Add	19.31	
			For Type 304 Stainless Steel Door, Add	349.48	
			For Type 316 Stainless Steel Door, Add	564.09	
			For Embossed Panel, Add	103.01	
			For Galvanized Steel, Add	64.38	
			For Baked Enamel Finish, Add	202.01	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-30.62	
			For >100, Deduct	-44.40	
			For Insulated Door (Polystyrene Core), Add	42.92	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	107.31	
			For Seamless Edge (Welded), Add	53.65	



Openings			08	08
Doors And Frames			08 10	
Metal Doors			08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0012	PR		Pair 2'-6" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated).....	882.29	98.79
			For Composite Door Instead Of Full Panel Door, Add	30.81	
			For Type 304 Stainless Steel Door, Add	557.65	
			For Type 316 Stainless Steel Door, Add	900.00	
			For Embossed Panel, Add	164.33	
			For Galvanized Steel, Add	102.71	
			For Baked Enamel Finish, Add	323.96	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-49.05	
			For >100, Deduct	-71.11	
			For Insulated Door (Polystyrene Core), Add	68.47	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	171.18	
			For Seamless Edge (Welded), Add	85.59	
08 13 13 13-0013	PR		Pair 2'-8" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated).....	892.51	98.79
			For Composite Door Instead Of Full Panel Door, Add	31.27	
			For Type 304 Stainless Steel Door, Add	565.82	
			For Type 316 Stainless Steel Door, Add	913.29	
			For Embossed Panel, Add	166.78	
			For Galvanized Steel, Add	104.24	
			For Baked Enamel Finish, Add	327.03	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-49.57	
			For >100, Deduct	-71.88	
			For Insulated Door (Polystyrene Core), Add	69.49	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	173.73	
			For Seamless Edge (Welded), Add	86.87	
08 13 13 13-0014	PR		Pair 2'-10" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated).....	875.35	88.17
			For Composite Door Instead Of Full Panel Door, Add	31.46	
			For Type 304 Stainless Steel Door, Add	568.03	
			For Type 316 Stainless Steel Door, Add	917.53	
			For Embossed Panel, Add	167.76	
			For Galvanized Steel, Add	104.85	
			For Baked Enamel Finish, Add	315.51	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-48.18	
			For >100, Deduct	-70.06	
			For Insulated Door (Polystyrene Core), Add	69.90	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	174.75	
			For Seamless Edge (Welded), Add	87.38	
08 13 13 13-0015	PR		Pair 3' x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated).....	909.27	103.09
			For Composite Door Instead Of Full Panel Door, Add	31.64	
			For Type 304 Stainless Steel Door, Add	572.79	
			For Type 316 Stainless Steel Door, Add	924.34	
			For Embossed Panel, Add	168.74	
			For Galvanized Steel, Add	105.47	
			For Baked Enamel Finish, Add	334.63	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-50.62	
			For >100, Deduct	-73.35	
			For Insulated Door (Polystyrene Core), Add	70.31	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	175.78	
			For Seamless Edge (Welded), Add	87.89	
08 13 13 13-0016	PR		Pair 3'-6" x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated).....	991.44	107.38
			For Composite Door Instead Of Full Panel Door, Add	34.95	
			For Type 304 Stainless Steel Door, Add	632.08	
			For Type 316 Stainless Steel Door, Add	1,020.42	
			For Embossed Panel, Add	186.40	
			For Galvanized Steel, Add	116.50	
			For Baked Enamel Finish, Add	361.86	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-54.94	
			For >100, Deduct	-79.73	
			For Insulated Door (Polystyrene Core), Add	77.67	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	194.17	
			For Seamless Edge (Welded), Add	97.09	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0017 PR Pair 4' x 6'-8" x 1-3/4" 20 Gauge Metal Door (Unrated)	1,090.39	115.97
For Composite Door Instead Of Full Panel Door, Add	38.63	
For Type 304 Stainless Steel Door, Add	698.35	
For Type 316 Stainless Steel Door, Add	1,127.57	
For Embossed Panel, Add	206.03	
For Galvanized Steel, Add	128.77	
For Baked Enamel Finish, Add	396.70	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-60.32	
For >100, Deduct	-87.58	
For Insulated Door (Polystyrene Core), Add	85.84	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	214.61	
For Seamless Edge (Welded), Add	107.31	
08 13 13 13-0018 7' High (08 13 13 13-0001)		
08 13 13 13-0019 EA 2' x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	443.75	49.73
For Composite Door Instead Of Full Panel Door, Add	15.49	
For Type 304 Stainless Steel Door, Add	280.40	
For Type 316 Stainless Steel Door, Add	452.54	
For Embossed Panel, Add	82.63	
For Galvanized Steel, Add	51.64	
For Baked Enamel Finish, Add	162.97	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-24.67	
For >100, Deduct	-35.77	
For Insulated Door (Polystyrene Core), Add	34.43	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	86.07	
For Seamless Edge (Welded), Add	43.04	
08 13 13 13-0020 EA 2'-4" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated).....	443.75	49.73
For Composite Door Instead Of Full Panel Door, Add	15.49	
For Type 304 Stainless Steel Door, Add	280.40	
For Type 316 Stainless Steel Door, Add	452.54	
For Embossed Panel, Add	82.63	
For Galvanized Steel, Add	51.64	
For Baked Enamel Finish, Add	162.97	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-24.67	
For >100, Deduct	-35.77	
For Insulated Door (Polystyrene Core), Add	34.43	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	86.07	
For Seamless Edge (Welded), Add	43.04	
08 13 13 13-0021 EA 2'-6" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated).....	455.31	52.00
For Composite Door Instead Of Full Panel Door, Add	15.81	
For Type 304 Stainless Steel Door, Add	286.26	
For Type 316 Stainless Steel Door, Add	461.92	
For Embossed Panel, Add	84.32	
For Galvanized Steel, Add	52.70	
For Baked Enamel Finish, Add	167.79	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-25.37	
For >100, Deduct	-36.75	
For Insulated Door (Polystyrene Core), Add	35.13	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	87.83	
For Seamless Edge (Welded), Add	43.92	



Openings			08
Doors And Frames			08 10
Metal Doors			08 13

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0022	EA		2'-8" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated).....	460.56	52.00
			For Composite Door Instead Of Full Panel Door, Add	16.05	
			For Type 304 Stainless Steel Door, Add	290.46	
			For Type 316 Stainless Steel Door, Add	468.74	
			For Embossed Panel, Add	85.58	
			For Galvanized Steel, Add	53.49	
			For Baked Enamel Finish, Add	169.37	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.63	
			For >100, Deduct	-37.14	
			For Insulated Door (Polystyrene Core), Add	35.66	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	89.14	
			For Seamless Edge (Welded), Add	44.57	
08 13 13 13-0023	EA		2'-10" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated).....	464.92	53.12
			For Composite Door Instead Of Full Panel Door, Add	16.14	
			For Type 304 Stainless Steel Door, Add	292.24	
			For Type 316 Stainless Steel Door, Add	471.57	
			For Embossed Panel, Add	86.08	
			For Galvanized Steel, Add	53.80	
			For Baked Enamel Finish, Add	171.35	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.90	
			For >100, Deduct	-37.53	
			For Insulated Door (Polystyrene Core), Add	35.87	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	89.67	
			For Seamless Edge (Welded), Add	44.83	
08 13 13 13-0024	EA		3' x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	469.27	54.26
			For Composite Door Instead Of Full Panel Door, Add	16.23	
			For Type 304 Stainless Steel Door, Add	294.03	
			For Type 316 Stainless Steel Door, Add	474.41	
			For Embossed Panel, Add	86.58	
			For Galvanized Steel, Add	54.11	
			For Baked Enamel Finish, Add	173.33	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.18	
			For >100, Deduct	-37.91	
			For Insulated Door (Polystyrene Core), Add	36.08	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	90.19	
			For Seamless Edge (Welded), Add	45.10	
08 13 13 13-0025	EA		3'-4" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated).....	496.54	54.26
			For Composite Door Instead Of Full Panel Door, Add	17.46	
			For Type 304 Stainless Steel Door, Add	315.85	
			For Type 316 Stainless Steel Door, Add	509.86	
			For Embossed Panel, Add	93.13	
			For Galvanized Steel, Add	58.20	
			For Baked Enamel Finish, Add	181.52	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.54	
			For >100, Deduct	-39.95	
			For Insulated Door (Polystyrene Core), Add	38.80	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	97.01	
			For Seamless Edge (Welded), Add	48.50	
08 13 13 13-0026	EA		3'-6" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated).....	511.56	56.51
			For Composite Door Instead Of Full Panel Door, Add	17.93	
			For Type 304 Stainless Steel Door, Add	324.47	
			For Type 316 Stainless Steel Door, Add	523.73	
			For Embossed Panel, Add	95.64	
			For Galvanized Steel, Add	59.78	
			For Baked Enamel Finish, Add	187.38	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-28.40	
			For >100, Deduct	-41.19	
			For Insulated Door (Polystyrene Core), Add	39.85	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	99.63	
			For Seamless Edge (Welded), Add	49.82	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13-0027	EA		4' x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	562.54	61.04
			For Composite Door Instead Of Full Panel Door, Add	19.82	
			For Type 304 Stainless Steel Door, Add	358.47	
			For Type 316 Stainless Steel Door, Add	578.70	
			For Embossed Panel, Add	105.71	
			For Galvanized Steel, Add	66.07	
			For Baked Enamel Finish, Add	205.39	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-31.18	
			For >100, Deduct	-45.24	
			For Insulated Door (Polystyrene Core), Add	44.05	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	110.12	
			For Seamless Edge (Welded), Add	55.06	
08 13 13-0028	PR		Pair 2'-6" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	900.23	98.79
			For Composite Door Instead Of Full Panel Door, Add	31.62	
			For Type 304 Stainless Steel Door, Add	572.00	
			For Type 316 Stainless Steel Door, Add	923.32	
			For Embossed Panel, Add	168.64	
			For Galvanized Steel, Add	105.40	
			For Baked Enamel Finish, Add	329.34	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-49.95	
			For >100, Deduct	-72.46	
			For Insulated Door (Polystyrene Core), Add	70.27	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	175.66	
			For Seamless Edge (Welded), Add	87.83	
08 13 13-0029	PR		Pair 2'-8" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	910.71	98.79
			For Composite Door Instead Of Full Panel Door, Add	32.09	
			For Type 304 Stainless Steel Door, Add	580.38	
			For Type 316 Stainless Steel Door, Add	936.95	
			For Embossed Panel, Add	171.15	
			For Galvanized Steel, Add	106.97	
			For Baked Enamel Finish, Add	332.49	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-50.48	
			For >100, Deduct	-73.24	
			For Insulated Door (Polystyrene Core), Add	71.31	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	178.28	
			For Seamless Edge (Welded), Add	89.14	
08 13 13-0030	PR		Pair 2'-10" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	893.67	88.17
			For Composite Door Instead Of Full Panel Door, Add	32.28	
			For Type 304 Stainless Steel Door, Add	582.68	
			For Type 316 Stainless Steel Door, Add	941.35	
			For Embossed Panel, Add	172.16	
			For Galvanized Steel, Add	107.60	
			For Baked Enamel Finish, Add	321.00	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-49.09	
			For >100, Deduct	-71.43	
			For Insulated Door (Polystyrene Core), Add	71.73	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	179.33	
			For Seamless Edge (Welded), Add	89.67	
08 13 13-0031	PR		Pair 3' x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	927.69	103.09
			For Composite Door Instead Of Full Panel Door, Add	32.47	
			For Type 304 Stainless Steel Door, Add	587.52	
			For Type 316 Stainless Steel Door, Add	948.28	
			For Embossed Panel, Add	173.16	
			For Galvanized Steel, Add	108.23	
			For Baked Enamel Finish, Add	340.16	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-51.54	
			For >100, Deduct	-74.73	
			For Insulated Door (Polystyrene Core), Add	72.15	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	180.38	
			For Seamless Edge (Welded), Add	90.19	



Openings			08	08
Doors And Frames			08 10	
Metal Doors			08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0032	PR		Pair 3'-6" x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	1,011.79	107.38
			For Composite Door Instead Of Full Panel Door, Add	35.87	
			For Type 304 Stainless Steel Door, Add	648.36	
			For Type 316 Stainless Steel Door, Add	1,046.88	
			For Embossed Panel, Add	191.29	
			For Galvanized Steel, Add	119.55	
			For Baked Enamel Finish, Add	367.97	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-55.96	
			For >100, Deduct	-81.25	
			For Insulated Door (Polystyrene Core), Add	79.70	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	199.26	
			For Seamless Edge (Welded), Add	99.63	
08 13 13 13-0033	PR		Pair 4' x 7' x 1-3/4" 20 Gauge Metal Door (Unrated)	1,112.88	115.97
			For Composite Door Instead Of Full Panel Door, Add	39.64	
			For Type 304 Stainless Steel Door, Add	716.34	
			For Type 316 Stainless Steel Door, Add	1,156.81	
			For Embossed Panel, Add	211.42	
			For Galvanized Steel, Add	132.14	
			For Baked Enamel Finish, Add	403.45	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-61.44	
			For >100, Deduct	-89.26	
			For Insulated Door (Polystyrene Core), Add	88.09	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	220.23	
			For Seamless Edge (Welded), Add	110.12	
08 13 13 13-0034			7'-2" High (08 13 13 13-0001)		
08 13 13 13-0035	EA		2' x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	452.29	49.73
			For Composite Door Instead Of Full Panel Door, Add	15.88	
			For Type 304 Stainless Steel Door, Add	287.23	
			For Type 316 Stainless Steel Door, Add	463.64	
			For Embossed Panel, Add	84.68	
			For Galvanized Steel, Add	52.92	
			For Baked Enamel Finish, Add	165.53	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.10	
			For >100, Deduct	-36.41	
			For Insulated Door (Polystyrene Core), Add	35.28	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	88.21	
			For Seamless Edge (Welded), Add	44.10	
08 13 13 13-0036	EA		2'-4" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	452.29	49.73
			For Composite Door Instead Of Full Panel Door, Add	15.88	
			For Type 304 Stainless Steel Door, Add	287.23	
			For Type 316 Stainless Steel Door, Add	463.64	
			For Embossed Panel, Add	84.68	
			For Galvanized Steel, Add	52.92	
			For Baked Enamel Finish, Add	165.53	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.10	
			For >100, Deduct	-36.41	
			For Insulated Door (Polystyrene Core), Add	35.28	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	88.21	
			For Seamless Edge (Welded), Add	44.10	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13-0037	EA		2'-6" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	464.03	52.00
			For Composite Door Instead Of Full Panel Door, Add	16.20	
			For Type 304 Stainless Steel Door, Add	293.23	
			For Type 316 Stainless Steel Door, Add	473.25	
			For Embossed Panel, Add	86.41	
			For Galvanized Steel, Add	54.01	
			For Baked Enamel Finish, Add	170.41	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.80	
			For >100, Deduct	-37.40	
			For Insulated Door (Polystyrene Core), Add	36.00	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	90.01	
			For Seamless Edge (Welded), Add	45.01	
08 13 13-0038	EA		2'-8" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	469.40	52.00
			For Composite Door Instead Of Full Panel Door, Add	16.44	
			For Type 304 Stainless Steel Door, Add	297.53	
			For Type 316 Stainless Steel Door, Add	480.23	
			For Embossed Panel, Add	87.70	
			For Galvanized Steel, Add	54.81	
			For Baked Enamel Finish, Add	172.02	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.07	
			For >100, Deduct	-37.80	
			For Insulated Door (Polystyrene Core), Add	36.54	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	91.35	
			For Seamless Edge (Welded), Add	45.68	
08 13 13-0039	EA		2'-10" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	473.82	53.12
			For Composite Door Instead Of Full Panel Door, Add	16.54	
			For Type 304 Stainless Steel Door, Add	299.36	
			For Type 316 Stainless Steel Door, Add	483.14	
			For Embossed Panel, Add	88.21	
			For Galvanized Steel, Add	55.13	
			For Baked Enamel Finish, Add	174.02	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.35	
			For >100, Deduct	-38.19	
			For Insulated Door (Polystyrene Core), Add	36.76	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	91.89	
			For Seamless Edge (Welded), Add	45.95	
08 13 13-0040	EA		3' x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	478.22	54.26
			For Composite Door Instead Of Full Panel Door, Add	16.64	
			For Type 304 Stainless Steel Door, Add	301.19	
			For Type 316 Stainless Steel Door, Add	486.05	
			For Embossed Panel, Add	88.73	
			For Galvanized Steel, Add	55.46	
			For Baked Enamel Finish, Add	176.02	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.62	
			For >100, Deduct	-38.58	
			For Insulated Door (Polystyrene Core), Add	36.97	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	92.43	
			For Seamless Edge (Welded), Add	46.21	
08 13 13-0041	EA		3'-4" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	506.16	54.26
			For Composite Door Instead Of Full Panel Door, Add	17.89	
			For Type 304 Stainless Steel Door, Add	323.55	
			For Type 316 Stainless Steel Door, Add	522.37	
			For Embossed Panel, Add	95.44	
			For Galvanized Steel, Add	59.65	
			For Baked Enamel Finish, Add	184.40	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-28.02	
			For >100, Deduct	-40.67	
			For Insulated Door (Polystyrene Core), Add	39.77	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	99.41	
			For Seamless Edge (Welded), Add	49.71	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Doors	08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0042	EA		3'-6" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	521.44	56.51
			For Composite Door Instead Of Full Panel Door, Add	18.38	
			For Type 304 Stainless Steel Door, Add	332.37	
			For Type 316 Stainless Steel Door, Add	536.57	
			For Embossed Panel, Add	98.02	
			For Galvanized Steel, Add	61.26	
			For Baked Enamel Finish, Add	190.34	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-28.90	
			For >100, Deduct	-41.93	
			For Insulated Door (Polystyrene Core), Add	40.84	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	102.10	
			For Seamless Edge (Welded), Add	51.05	
08 13 13 13-0043	EA		4' x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	573.47	61.04
			For Composite Door Instead Of Full Panel Door, Add	20.31	
			For Type 304 Stainless Steel Door, Add	367.22	
			For Type 316 Stainless Steel Door, Add	592.91	
			For Embossed Panel, Add	108.33	
			For Galvanized Steel, Add	67.71	
			For Baked Enamel Finish, Add	208.67	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-31.73	
			For >100, Deduct	-46.06	
			For Insulated Door (Polystyrene Core), Add	45.14	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	112.85	
			For Seamless Edge (Welded), Add	56.42	
08 13 13 13-0044	PR		Pair 2'-6" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	917.65	98.79
			For Composite Door Instead Of Full Panel Door, Add	32.40	
			For Type 304 Stainless Steel Door, Add	585.94	
			For Type 316 Stainless Steel Door, Add	945.97	
			For Embossed Panel, Add	172.82	
			For Galvanized Steel, Add	108.01	
			For Baked Enamel Finish, Add	334.57	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-50.82	
			For >100, Deduct	-73.76	
			For Insulated Door (Polystyrene Core), Add	72.01	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	180.02	
			For Seamless Edge (Welded), Add	90.01	
08 13 13 13-0045	PR		Pair 2'-8" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	928.40	98.79
			For Composite Door Instead Of Full Panel Door, Add	32.89	
			For Type 304 Stainless Steel Door, Add	594.54	
			For Type 316 Stainless Steel Door, Add	959.95	
			For Embossed Panel, Add	175.40	
			For Galvanized Steel, Add	109.62	
			For Baked Enamel Finish, Add	337.79	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-51.36	
			For >100, Deduct	-74.57	
			For Insulated Door (Polystyrene Core), Add	73.08	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	182.71	
			For Seamless Edge (Welded), Add	91.35	
08 13 13 13-0046	PR		Pair 2'-10" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	911.46	88.17
			For Composite Door Instead Of Full Panel Door, Add	33.08	
			For Type 304 Stainless Steel Door, Add	596.91	
			For Type 316 Stainless Steel Door, Add	964.47	
			For Embossed Panel, Add	176.43	
			For Galvanized Steel, Add	110.27	
			For Baked Enamel Finish, Add	326.34	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-49.98	
			For >100, Deduct	-72.77	
			For Insulated Door (Polystyrene Core), Add	73.51	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	183.78	
			For Seamless Edge (Welded), Add	91.89	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0047	PR		Pair 3' x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	945.59	103.09
			For Composite Door Instead Of Full Panel Door, Add	33.27	
			For Type 304 Stainless Steel Door, Add	601.84	
			For Type 316 Stainless Steel Door, Add	971.55	
			For Embossed Panel, Add	177.46	
			For Galvanized Steel, Add	110.91	
			For Baked Enamel Finish, Add	345.53	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-52.43	
			For >100, Deduct	-76.07	
			For Insulated Door (Polystyrene Core), Add	73.94	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	184.86	
			For Seamless Edge (Welded), Add	92.43	
08 13 13 13-0048	PR		Pair 3'-6" x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	1,031.56	107.38
			For Composite Door Instead Of Full Panel Door, Add	36.76	
			For Type 304 Stainless Steel Door, Add	664.18	
			For Type 316 Stainless Steel Door, Add	1,072.58	
			For Embossed Panel, Add	196.03	
			For Galvanized Steel, Add	122.52	
			For Baked Enamel Finish, Add	373.90	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-56.95	
			For >100, Deduct	-82.74	
			For Insulated Door (Polystyrene Core), Add	81.68	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	204.20	
			For Seamless Edge (Welded), Add	102.10	
08 13 13 13-0049	PR		Pair 4' x 7'-2" x 1-3/4" 20 Gauge Metal Door (Unrated)	1,134.73	115.97
			For Composite Door Instead Of Full Panel Door, Add	40.63	
			For Type 304 Stainless Steel Door, Add	733.82	
			For Type 316 Stainless Steel Door, Add	1,185.21	
			For Embossed Panel, Add	216.67	
			For Galvanized Steel, Add	135.42	
			For Baked Enamel Finish, Add	410.00	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-62.54	
			For >100, Deduct	-90.90	
			For Insulated Door (Polystyrene Core), Add	90.28	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	225.70	
			For Seamless Edge (Welded), Add	112.85	
08 13 13 13-0050			18 Gauge 1-3/4" Unrated Door (08 13 13 13)		
08 13 13 13-0051			6'-8" High (08 13 13 13-0050)		
08 13 13 13-0052	EA		2' x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	462.10	49.73
			For 18 Gauge, Grade II, Heavy Duty, Add	72.53	
			For Composite Door Instead Of Full Panel Door, Add	16.32	
			For Type 304 Stainless Steel Door, Add	295.08	
			For Type 316 Stainless Steel Door, Add	476.39	
			For Embossed Panel, Add	87.03	
			For Galvanized Steel, Add	54.39	
			For Baked Enamel Finish, Add	168.47	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.59	
			For >100, Deduct	-37.14	
			For 2" Thick Door, Add	28.78	
			For Insulated Door (Polystyrene Core), Add	36.26	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	90.66	
			For Seamless Edge (Welded), Add	45.33	
			For Steel Stiffened, Add	90.66	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0053	EA		2'-4" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	462.10	49.73
			For 18 Gauge, Grade II, Heavy Duty, Add	72.53	
			For Composite Door Instead Of Full Panel Door, Add	16.32	
			For Type 304 Stainless Steel Door, Add	295.08	
			For Type 316 Stainless Steel Door, Add	476.39	
			For Embossed Panel, Add	87.03	
			For Galvanized Steel, Add	54.39	
			For Baked Enamel Finish, Add	168.47	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-25.59	
			For >100, Deduct	-37.14	
			For 2" Thick Door, Add	28.78	
			For Insulated Door (Polystyrene Core), Add	36.26	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	90.66	
			For Seamless Edge (Welded), Add	45.33	
			For Steel Stiffened, Add	90.66	
08 13 13 13-0054	EA		2'-6" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	474.04	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	74.01	
			For Composite Door Instead Of Full Panel Door, Add	16.65	
			For Type 304 Stainless Steel Door, Add	301.24	
			For Type 316 Stainless Steel Door, Add	486.26	
			For Embossed Panel, Add	88.81	
			For Galvanized Steel, Add	55.51	
			For Baked Enamel Finish, Add	173.41	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.30	
			For >100, Deduct	-38.15	
			For 2" Thick Door, Add	29.43	
			For Insulated Door (Polystyrene Core), Add	37.01	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	92.51	
			For Seamless Edge (Welded), Add	46.26	
			For Steel Stiffened, Add	92.51	
08 13 13 13-0055	EA		2'-8" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	479.56	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	75.11	
			For Composite Door Instead Of Full Panel Door, Add	16.90	
			For Type 304 Stainless Steel Door, Add	305.66	
			For Type 316 Stainless Steel Door, Add	493.44	
			For Embossed Panel, Add	90.14	
			For Galvanized Steel, Add	56.34	
			For Baked Enamel Finish, Add	175.07	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.58	
			For >100, Deduct	-38.57	
			For 2" Thick Door, Add	29.83	
			For Insulated Door (Polystyrene Core), Add	37.56	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	93.89	
			For Seamless Edge (Welded), Add	46.95	
			For Steel Stiffened, Add	93.89	
08 13 13 13-0056	EA		2'-10" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	484.04	53.12
			For 18 Gauge, Grade II, Heavy Duty, Add	75.56	
			For Composite Door Instead Of Full Panel Door, Add	17.00	
			For Type 304 Stainless Steel Door, Add	307.54	
			For Type 316 Stainless Steel Door, Add	496.43	
			For Embossed Panel, Add	90.67	
			For Galvanized Steel, Add	56.67	
			For Baked Enamel Finish, Add	177.09	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.86	
			For >100, Deduct	-38.96	
			For 2" Thick Door, Add	30.05	
			For Insulated Door (Polystyrene Core), Add	37.78	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	94.45	
			For Seamless Edge (Welded), Add	47.22	
			For Steel Stiffened, Add	94.45	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0057	EA		3' x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated).....	488.50	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	76.00	
			For Composite Door Instead Of Full Panel Door, Add	17.10	
			For Type 304 Stainless Steel Door, Add	309.42	
			For Type 316 Stainless Steel Door, Add	499.41	
			For Embossed Panel, Add	91.20	
			For Galvanized Steel, Add	57.00	
			For Baked Enamel Finish, Add	179.10	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.14	
			For >100, Deduct	-39.35	
			For 2" Thick Door, Add	30.26	
			For Insulated Door (Polystyrene Core), Add	38.00	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	95.00	
			For Seamless Edge (Welded), Add	47.50	
			For Steel Stiffened, Add	95.00	
08 13 13 13-0058	EA		3'-4" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	517.22	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	81.74	
			For Composite Door Instead Of Full Panel Door, Add	18.39	
			For Type 304 Stainless Steel Door, Add	332.39	
			For Type 316 Stainless Steel Door, Add	536.75	
			For Embossed Panel, Add	98.09	
			For Galvanized Steel, Add	61.31	
			For Baked Enamel Finish, Add	187.72	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-28.57	
			For >100, Deduct	-41.50	
			For 2" Thick Door, Add	32.34	
			For Insulated Door (Polystyrene Core), Add	40.87	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	102.18	
			For Seamless Edge (Welded), Add	51.09	
			For Steel Stiffened, Add	102.18	
08 13 13 13-0059	EA		3'-6" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	532.80	56.51
			For 18 Gauge, Grade II, Heavy Duty, Add	83.95	
			For Composite Door Instead Of Full Panel Door, Add	18.89	
			For Type 304 Stainless Steel Door, Add	341.46	
			For Type 316 Stainless Steel Door, Add	551.34	
			For Embossed Panel, Add	100.74	
			For Galvanized Steel, Add	62.96	
			For Baked Enamel Finish, Add	193.75	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-29.47	
			For >100, Deduct	-42.79	
			For 2" Thick Door, Add	33.26	
			For Insulated Door (Polystyrene Core), Add	41.98	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	104.94	
			For Seamless Edge (Welded), Add	52.47	
			For Steel Stiffened, Add	104.94	
08 13 13 13-0060	EA		4' x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated).....	586.02	61.04
			For 18 Gauge, Grade II, Heavy Duty, Add	92.79	
			For Composite Door Instead Of Full Panel Door, Add	20.88	
			For Type 304 Stainless Steel Door, Add	377.26	
			For Type 316 Stainless Steel Door, Add	609.23	
			For Embossed Panel, Add	111.35	
			For Galvanized Steel, Add	69.59	
			For Baked Enamel Finish, Add	212.43	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-32.35	
			For >100, Deduct	-47.00	
			For 2" Thick Door, Add	36.69	
			For Insulated Door (Polystyrene Core), Add	46.39	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	115.99	
			For Seamless Edge (Welded), Add	57.99	
			For Steel Stiffened, Add	115.99	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0061	PR		Pair 2'-6" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated).....	937.68	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	148.02	
			For Composite Door Instead Of Full Panel Door, Add	33.30	
			For Type 304 Stainless Steel Door, Add	601.96	
			For Type 316 Stainless Steel Door, Add	972.01	
			For Embossed Panel, Add	177.62	
			For Galvanized Steel, Add	111.02	
			For Baked Enamel Finish, Add	340.58	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-51.82	
			For >100, Deduct	-75.27	
			For 2" Thick Door, Add	58.60	
			For Insulated Door (Polystyrene Core), Add	74.01	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	185.03	
			For Seamless Edge (Welded), Add	92.51	
			For Steel Stiffened, Add	185.03	
08 13 13 13-0062	PR		Pair 2'-8" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated).....	948.73	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	150.23	
			For Composite Door Instead Of Full Panel Door, Add	33.80	
			For Type 304 Stainless Steel Door, Add	610.80	
			For Type 316 Stainless Steel Door, Add	986.37	
			For Embossed Panel, Add	180.28	
			For Galvanized Steel, Add	112.67	
			For Baked Enamel Finish, Add	343.89	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-52.38	
			For >100, Deduct	-76.09	
			For 2" Thick Door, Add	59.40	
			For Insulated Door (Polystyrene Core), Add	75.12	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	187.79	
			For Seamless Edge (Welded), Add	93.89	
			For Steel Stiffened, Add	187.79	
08 13 13 13-0063	PR		Pair 2'-10" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated).....	931.90	88.17
			For 18 Gauge, Grade II, Heavy Duty, Add	151.11	
			For Composite Door Instead Of Full Panel Door, Add	34.00	
			For Type 304 Stainless Steel Door, Add	613.27	
			For Type 316 Stainless Steel Door, Add	991.05	
			For Embossed Panel, Add	181.33	
			For Galvanized Steel, Add	113.33	
			For Baked Enamel Finish, Add	332.47	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-51.00	
			For >100, Deduct	-74.30	
			For 2" Thick Door, Add	59.19	
			For Insulated Door (Polystyrene Core), Add	75.56	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	188.89	
			For Seamless Edge (Welded), Add	94.45	
			For Steel Stiffened, Add	188.89	
08 13 13 13-0064	PR		Pair 3' x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated).....	966.15	103.09
			For 18 Gauge, Grade II, Heavy Duty, Add	152.00	
			For Composite Door Instead Of Full Panel Door, Add	34.20	
			For Type 304 Stainless Steel Door, Add	618.29	
			For Type 316 Stainless Steel Door, Add	998.28	
			For Embossed Panel, Add	182.40	
			For Galvanized Steel, Add	114.00	
			For Baked Enamel Finish, Add	351.70	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-53.46	
			For >100, Deduct	-77.62	
			For 2" Thick Door, Add	60.25	
			For Insulated Door (Polystyrene Core), Add	76.00	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	190.00	
			For Seamless Edge (Welded), Add	95.00	
			For Steel Stiffened, Add	190.00	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0065	PR		Pair 3'-6" x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	1,054.28	107.38
			For 18 Gauge, Grade II, Heavy Duty, Add	167.90	
			For Composite Door Instead Of Full Panel Door, Add	37.78	
			For Type 304 Stainless Steel Door, Add	682.35	
			For Type 316 Stainless Steel Door, Add	1,102.11	
			For Embossed Panel, Add	201.48	
			For Galvanized Steel, Add	125.93	
			For Baked Enamel Finish, Add	380.71	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-58.08	
			For >100, Deduct	-84.44	
			For 2" Thick Door, Add	66.23	
			For Insulated Door (Polystyrene Core), Add	83.95	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	209.88	
			For Seamless Edge (Welded), Add	104.94	
			For Steel Stiffened, Add	209.88	
08 13 13 13-0066	PR		Pair 4' x 6'-8" x 1-3/4" 18 Gauge Metal Door (Unrated)	1,159.84	115.97
			For 18 Gauge, Grade II, Heavy Duty, Add	185.58	
			For Composite Door Instead Of Full Panel Door, Add	41.76	
			For Type 304 Stainless Steel Door, Add	753.91	
			For Type 316 Stainless Steel Door, Add	1,217.85	
			For Embossed Panel, Add	222.69	
			For Galvanized Steel, Add	139.18	
			For Baked Enamel Finish, Add	417.54	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-63.79	
			For >100, Deduct	-92.79	
			For 2" Thick Door, Add	73.07	
			For Insulated Door (Polystyrene Core), Add	92.79	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	231.97	
			For Seamless Edge (Welded), Add	115.99	
			For Steel Stiffened, Add	231.97	
08 13 13 13-0067			7' High (08 13 13 13-0050)		
08 13 13 13-0068	EA		2' x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	470.71	49.73
			For 18 Gauge, Grade II, Heavy Duty, Add	74.25	
			For Composite Door Instead Of Full Panel Door, Add	16.71	
			For Type 304 Stainless Steel Door, Add	301.97	
			For Type 316 Stainless Steel Door, Add	487.59	
			For Embossed Panel, Add	89.10	
			For Galvanized Steel, Add	55.69	
			For Baked Enamel Finish, Add	171.05	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.02	
			For >100, Deduct	-37.79	
			For 2" Thick Door, Add	29.40	
			For Insulated Door (Polystyrene Core), Add	37.12	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	92.81	
			For Seamless Edge (Welded), Add	46.41	
			For Steel Stiffened, Add	92.81	
08 13 13 13-0069	EA		2'-4" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	470.71	49.73
			For 18 Gauge, Grade II, Heavy Duty, Add	74.25	
			For Composite Door Instead Of Full Panel Door, Add	16.71	
			For Type 304 Stainless Steel Door, Add	301.97	
			For Type 316 Stainless Steel Door, Add	487.59	
			For Embossed Panel, Add	89.10	
			For Galvanized Steel, Add	55.69	
			For Baked Enamel Finish, Add	171.05	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.02	
			For >100, Deduct	-37.79	
			For 2" Thick Door, Add	29.40	
			For Insulated Door (Polystyrene Core), Add	37.12	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	92.81	
			For Seamless Edge (Welded), Add	46.41	
			For Steel Stiffened, Add	92.81	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0070	EA		2'-6" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	482.82	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	75.77	
			For Composite Door Instead Of Full Panel Door, Add	17.05	
			For Type 304 Stainless Steel Door, Add	308.26	
			For Type 316 Stainless Steel Door, Add	497.68	
			For Embossed Panel, Add	90.92	
			For Galvanized Steel, Add	56.82	
			For Baked Enamel Finish, Add	176.04	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-26.74	
			For >100, Deduct	-38.81	
			For 2" Thick Door, Add	30.06	
			For Insulated Door (Polystyrene Core), Add	37.88	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	94.71	
			For Seamless Edge (Welded), Add	47.35	
			For Steel Stiffened, Add	94.71	
08 13 13 13-0071	EA		2'-8" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	488.48	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	76.90	
			For Composite Door Instead Of Full Panel Door, Add	17.30	
			For Type 304 Stainless Steel Door, Add	312.79	
			For Type 316 Stainless Steel Door, Add	505.04	
			For Embossed Panel, Add	92.28	
			For Galvanized Steel, Add	57.67	
			For Baked Enamel Finish, Add	177.74	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.02	
			For >100, Deduct	-39.24	
			For 2" Thick Door, Add	30.48	
			For Insulated Door (Polystyrene Core), Add	38.45	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	96.12	
			For Seamless Edge (Welded), Add	48.06	
			For Steel Stiffened, Add	96.12	
08 13 13 13-0072	EA		2'-10" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	493.01	53.12
			For 18 Gauge, Grade II, Heavy Duty, Add	77.35	
			For Composite Door Instead Of Full Panel Door, Add	17.40	
			For Type 304 Stainless Steel Door, Add	314.71	
			For Type 316 Stainless Steel Door, Add	508.09	
			For Embossed Panel, Add	92.82	
			For Galvanized Steel, Add	58.01	
			For Baked Enamel Finish, Add	179.78	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.31	
			For >100, Deduct	-39.63	
			For 2" Thick Door, Add	30.70	
			For Insulated Door (Polystyrene Core), Add	38.68	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	96.69	
			For Seamless Edge (Welded), Add	48.34	
			For Steel Stiffened, Add	96.69	
08 13 13 13-0073	EA		3' x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	497.52	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	77.80	
			For Composite Door Instead Of Full Panel Door, Add	17.51	
			For Type 304 Stainless Steel Door, Add	316.63	
			For Type 316 Stainless Steel Door, Add	511.14	
			For Embossed Panel, Add	93.36	
			For Galvanized Steel, Add	58.35	
			For Baked Enamel Finish, Add	181.81	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.59	
			For >100, Deduct	-40.03	
			For 2" Thick Door, Add	30.92	
			For Insulated Door (Polystyrene Core), Add	38.90	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	97.25	
			For Seamless Edge (Welded), Add	48.63	
			For Steel Stiffened, Add	97.25	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0074	EA		3'-4" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	526.92	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	83.68	
			For Composite Door Instead Of Full Panel Door, Add	18.83	
			For Type 304 Stainless Steel Door, Add	340.15	
			For Type 316 Stainless Steel Door, Add	549.36	
			For Embossed Panel, Add	100.42	
			For Galvanized Steel, Add	62.76	
			For Baked Enamel Finish, Add	190.63	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-29.06	
			For >100, Deduct	-42.23	
			For 2" Thick Door, Add	33.05	
			For Insulated Door (Polystyrene Core), Add	41.84	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	104.60	
			For Seamless Edge (Welded), Add	52.30	
			For Steel Stiffened, Add	104.60	
08 13 13 13-0075	EA		3'-6" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	542.76	56.51
			For 18 Gauge, Grade II, Heavy Duty, Add	85.94	
			For Composite Door Instead Of Full Panel Door, Add	19.34	
			For Type 304 Stainless Steel Door, Add	349.43	
			For Type 316 Stainless Steel Door, Add	564.29	
			For Embossed Panel, Add	103.13	
			For Galvanized Steel, Add	64.46	
			For Baked Enamel Finish, Add	196.74	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-29.96	
			For >100, Deduct	-43.53	
			For 2" Thick Door, Add	33.98	
			For Insulated Door (Polystyrene Core), Add	42.97	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	107.43	
			For Seamless Edge (Welded), Add	53.72	
			For Steel Stiffened, Add	107.43	
08 13 13 13-0076	EA		4' x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	597.03	61.04
			For 18 Gauge, Grade II, Heavy Duty, Add	94.99	
			For Composite Door Instead Of Full Panel Door, Add	21.37	
			For Type 304 Stainless Steel Door, Add	386.06	
			For Type 316 Stainless Steel Door, Add	623.54	
			For Embossed Panel, Add	113.99	
			For Galvanized Steel, Add	71.24	
			For Baked Enamel Finish, Add	215.73	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-32.90	
			For >100, Deduct	-47.83	
			For 2" Thick Door, Add	37.49	
			For Insulated Door (Polystyrene Core), Add	47.50	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	118.74	
			For Seamless Edge (Welded), Add	59.37	
			For Steel Stiffened, Add	118.74	
08 13 13 13-0077	PR		Pair 2'-6" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	955.24	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	151.53	
			For Composite Door Instead Of Full Panel Door, Add	34.09	
			For Type 304 Stainless Steel Door, Add	616.01	
			For Type 316 Stainless Steel Door, Add	994.84	
			For Embossed Panel, Add	181.84	
			For Galvanized Steel, Add	113.65	
			For Baked Enamel Finish, Add	345.85	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-52.70	
			For >100, Deduct	-76.58	
			For 2" Thick Door, Add	59.87	
			For Insulated Door (Polystyrene Core), Add	75.77	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	189.42	
			For Seamless Edge (Welded), Add	94.71	
			For Steel Stiffened, Add	189.42	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0078	PR		Pair 2'-8" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	966.55	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	153.79	
			For Composite Door Instead Of Full Panel Door, Add	34.60	
			For Type 304 Stainless Steel Door, Add	625.06	
			For Type 316 Stainless Steel Door, Add	1,009.54	
			For Embossed Panel, Add	184.55	
			For Galvanized Steel, Add	115.35	
			For Baked Enamel Finish, Add	349.24	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-53.27	
			For >100, Deduct	-77.43	
			For 2" Thick Door, Add	60.69	
			For Insulated Door (Polystyrene Core), Add	76.90	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	192.24	
			For Seamless Edge (Welded), Add	96.12	
			For Steel Stiffened, Add	192.24	
08 13 13 13-0079	PR		Pair 2'-10" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	949.83	88.17
			For 18 Gauge, Grade II, Heavy Duty, Add	154.70	
			For Composite Door Instead Of Full Panel Door, Add	34.81	
			For Type 304 Stainless Steel Door, Add	627.61	
			For Type 316 Stainless Steel Door, Add	1,014.35	
			For Embossed Panel, Add	185.64	
			For Galvanized Steel, Add	116.02	
			For Baked Enamel Finish, Add	337.85	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-51.90	
			For >100, Deduct	-75.65	
			For 2" Thick Door, Add	60.49	
			For Insulated Door (Polystyrene Core), Add	77.35	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	193.37	
			For Seamless Edge (Welded), Add	96.69	
			For Steel Stiffened, Add	193.37	
08 13 13 13-0080	PR		Pair 3' x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	984.19	103.09
			For 18 Gauge, Grade II, Heavy Duty, Add	155.60	
			For Composite Door Instead Of Full Panel Door, Add	35.01	
			For Type 304 Stainless Steel Door, Add	632.72	
			For Type 316 Stainless Steel Door, Add	1,021.73	
			For Embossed Panel, Add	186.72	
			For Galvanized Steel, Add	116.70	
			For Baked Enamel Finish, Add	357.11	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-54.36	
			For >100, Deduct	-78.97	
			For 2" Thick Door, Add	61.56	
			For Insulated Door (Polystyrene Core), Add	77.80	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	194.51	
			For Seamless Edge (Welded), Add	97.25	
			For Steel Stiffened, Add	194.51	
08 13 13 13-0081	PR		Pair 3'-6" x 7' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,074.20	107.38
			For 18 Gauge, Grade II, Heavy Duty, Add	171.89	
			For Composite Door Instead Of Full Panel Door, Add	38.67	
			For Type 304 Stainless Steel Door, Add	698.29	
			For Type 316 Stainless Steel Door, Add	1,128.01	
			For Embossed Panel, Add	206.27	
			For Galvanized Steel, Add	128.92	
			For Baked Enamel Finish, Add	386.69	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-59.08	
			For >100, Deduct	-85.93	
			For 2" Thick Door, Add	67.68	
			For Insulated Door (Polystyrene Core), Add	85.94	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	214.86	
			For Seamless Edge (Welded), Add	107.43	
			For Steel Stiffened, Add	214.86	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0082 PR Pair 4' x 7' x 1-3/4" 18 Gauge Metal Door (Unrated).....	1,181.86	115.97
For 18 Gauge, Grade II, Heavy Duty, Add	189.98	
For Composite Door Instead Of Full Panel Door, Add	42.75	
For Type 304 Stainless Steel Door, Add	771.53	
For Type 316 Stainless Steel Door, Add	1,246.48	
For Embossed Panel, Add	227.98	
For Galvanized Steel, Add	142.49	
For Baked Enamel Finish, Add	424.14	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-64.89	
For >100, Deduct	-94.44	
For 2" Thick Door, Add	74.67	
For Insulated Door (Polystyrene Core), Add	94.99	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	237.48	
For Seamless Edge (Welded), Add	118.74	
For Steel Stiffened, Add	237.48	
08 13 13 13-0083 7'-2" High (08 13 13 13-0050)		
08 13 13 13-0084 EA 2' x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated).....	479.32	49.73
For 18 Gauge, Grade II, Heavy Duty, Add	75.97	
For Composite Door Instead Of Full Panel Door, Add	17.09	
For Type 304 Stainless Steel Door, Add	308.85	
For Type 316 Stainless Steel Door, Add	498.78	
For Embossed Panel, Add	91.16	
For Galvanized Steel, Add	56.98	
For Baked Enamel Finish, Add	173.64	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-26.45	
For >100, Deduct	-38.44	
For 2" Thick Door, Add	30.03	
For Insulated Door (Polystyrene Core), Add	37.99	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	94.96	
For Seamless Edge (Welded), Add	47.48	
For Steel Stiffened, Add	94.96	
08 13 13 13-0085 EA 2'-4" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	479.32	49.73
For 18 Gauge, Grade II, Heavy Duty, Add	75.97	
For Composite Door Instead Of Full Panel Door, Add	17.09	
For Type 304 Stainless Steel Door, Add	308.85	
For Type 316 Stainless Steel Door, Add	498.78	
For Embossed Panel, Add	91.16	
For Galvanized Steel, Add	56.98	
For Baked Enamel Finish, Add	173.64	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-26.45	
For >100, Deduct	-38.44	
For 2" Thick Door, Add	30.03	
For Insulated Door (Polystyrene Core), Add	37.99	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	94.96	
For Seamless Edge (Welded), Add	47.48	
For Steel Stiffened, Add	94.96	
08 13 13 13-0086 EA 2'-6" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	491.61	52.00
For 18 Gauge, Grade II, Heavy Duty, Add	77.52	
For Composite Door Instead Of Full Panel Door, Add	17.44	
For Type 304 Stainless Steel Door, Add	315.30	
For Type 316 Stainless Steel Door, Add	509.11	
For Embossed Panel, Add	93.03	
For Galvanized Steel, Add	58.14	
For Baked Enamel Finish, Add	178.68	
For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
For 45 Minutes Rated Door And FM Label, Add	41.40	
For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
For >50 To 100, Deduct	-27.18	
For >100, Deduct	-39.47	
For 2" Thick Door, Add	30.70	
For Insulated Door (Polystyrene Core), Add	38.76	
For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	96.91	
For Seamless Edge (Welded), Add	48.45	
For Steel Stiffened, Add	96.91	



Openings			08	08
Doors And Frames			08 10	
Metal Doors			08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0087	EA		2'-8" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	497.39	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	78.68	
			For Composite Door Instead Of Full Panel Door, Add	17.70	
			For Type 304 Stainless Steel Door, Add	319.92	
			For Type 316 Stainless Steel Door, Add	516.62	
			For Embossed Panel, Add	94.42	
			For Galvanized Steel, Add	59.01	
			For Baked Enamel Finish, Add	180.41	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-27.47	
			For >100, Deduct	-39.90	
			For 2" Thick Door, Add	31.12	
			For Insulated Door (Polystyrene Core), Add	39.34	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	98.35	
			For Seamless Edge (Welded), Add	49.18	
			For Steel Stiffened, Add	98.35	
08 13 13 13-0088	EA		3' x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	506.54	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	79.61	
			For Composite Door Instead Of Full Panel Door, Add	17.91	
			For Type 304 Stainless Steel Door, Add	323.85	
			For Type 316 Stainless Steel Door, Add	522.86	
			For Embossed Panel, Add	95.53	
			For Galvanized Steel, Add	59.70	
			For Baked Enamel Finish, Add	184.52	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-28.04	
			For >100, Deduct	-40.70	
			For 2" Thick Door, Add	31.57	
			For Insulated Door (Polystyrene Core), Add	39.80	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	99.51	
			For Seamless Edge (Welded), Add	49.75	
			For Steel Stiffened, Add	99.51	
08 13 13 13-0089	EA		3'-4" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	536.62	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	85.62	
			For Composite Door Instead Of Full Panel Door, Add	19.26	
			For Type 304 Stainless Steel Door, Add	347.91	
			For Type 316 Stainless Steel Door, Add	561.97	
			For Embossed Panel, Add	102.75	
			For Galvanized Steel, Add	64.22	
			For Baked Enamel Finish, Add	193.54	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-29.54	
			For >100, Deduct	-42.96	
			For 2" Thick Door, Add	33.75	
			For Insulated Door (Polystyrene Core), Add	42.81	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	107.03	
			For Seamless Edge (Welded), Add	53.51	
			For Steel Stiffened, Add	107.03	
08 13 13 13-0090	EA		3'-6" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	552.72	56.51
			For 18 Gauge, Grade II, Heavy Duty, Add	87.94	
			For Composite Door Instead Of Full Panel Door, Add	19.79	
			For Type 304 Stainless Steel Door, Add	357.40	
			For Type 316 Stainless Steel Door, Add	577.24	
			For Embossed Panel, Add	105.52	
			For Galvanized Steel, Add	65.95	
			For Baked Enamel Finish, Add	199.73	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-30.46	
			For >100, Deduct	-44.28	
			For 2" Thick Door, Add	34.70	
			For Insulated Door (Polystyrene Core), Add	43.97	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	109.92	
			For Seamless Edge (Welded), Add	54.96	
			For Steel Stiffened, Add	109.92	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0091	EA		4' x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated).....	608.04	61.04
			For 18 Gauge, Grade II, Heavy Duty, Add	97.19	
			For Composite Door Instead Of Full Panel Door, Add	21.87	
			For Type 304 Stainless Steel Door, Add	394.87	
			For Type 316 Stainless Steel Door, Add	637.85	
			For Embossed Panel, Add	116.63	
			For Galvanized Steel, Add	72.89	
			For Baked Enamel Finish, Add	219.04	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.45	
			For >100, Deduct	-48.66	
			For 2" Thick Door, Add	38.28	
			For Insulated Door (Polystyrene Core), Add	48.60	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	121.49	
			For Seamless Edge (Welded), Add	60.75	
			For Steel Stiffened, Add	121.49	
08 13 13 13-0092	PR		Pair 2'-6" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated).....	972.81	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	155.05	
			For Composite Door Instead Of Full Panel Door, Add	34.89	
			For Type 304 Stainless Steel Door, Add	630.06	
			For Type 316 Stainless Steel Door, Add	1,017.68	
			For Embossed Panel, Add	186.06	
			For Galvanized Steel, Add	116.28	
			For Baked Enamel Finish, Add	351.12	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-53.58	
			For >100, Deduct	-77.90	
			For 2" Thick Door, Add	61.14	
			For Insulated Door (Polystyrene Core), Add	77.52	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	193.81	
			For Seamless Edge (Welded), Add	96.90	
			For Steel Stiffened, Add	193.81	
08 13 13 13-0093	PR		Pair 2'-8" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated).....	984.38	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	157.36	
			For Composite Door Instead Of Full Panel Door, Add	35.41	
			For Type 304 Stainless Steel Door, Add	639.32	
			For Type 316 Stainless Steel Door, Add	1,032.72	
			For Embossed Panel, Add	188.83	
			For Galvanized Steel, Add	118.02	
			For Baked Enamel Finish, Add	354.59	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-54.16	
			For >100, Deduct	-78.77	
			For 2" Thick Door, Add	61.98	
			For Insulated Door (Polystyrene Core), Add	78.68	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	196.70	
			For Seamless Edge (Welded), Add	98.35	
			For Steel Stiffened, Add	196.70	
08 13 13 13-0094	PR		Pair 2'-10" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated).....	967.77	88.17
			For 18 Gauge, Grade II, Heavy Duty, Add	158.29	
			For Composite Door Instead Of Full Panel Door, Add	35.61	
			For Type 304 Stainless Steel Door, Add	641.96	
			For Type 316 Stainless Steel Door, Add	1,037.68	
			For Embossed Panel, Add	189.94	
			For Galvanized Steel, Add	118.71	
			For Baked Enamel Finish, Add	343.23	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-52.80	
			For >100, Deduct	-76.99	
			For 2" Thick Door, Add	61.79	
			For Insulated Door (Polystyrene Core), Add	79.14	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	197.86	
			For Seamless Edge (Welded), Add	98.93	
			For Steel Stiffened, Add	197.86	



		Openings	08
		Doors And Frames	08 10
		Metal Doors	08 13

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0095	PR		Pair 3' x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	1,002.23	103.09
			For 18 Gauge, Grade II, Heavy Duty, Add	159.21	
			For Composite Door Instead Of Full Panel Door, Add	35.82	
			For Type 304 Stainless Steel Door, Add	647.16	
			For Type 316 Stainless Steel Door, Add	1,045.19	
			For Embossed Panel, Add	191.05	
			For Galvanized Steel, Add	119.41	
			For Baked Enamel Finish, Add	362.52	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-55.27	
			For >100, Deduct	-80.32	
			For 2" Thick Door, Add	62.87	
			For Insulated Door (Polystyrene Core), Add	79.61	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	199.02	
			For Seamless Edge (Welded), Add	99.51	
			For Steel Stiffened, Add	199.02	
08 13 13 13-0096	PR		Pair 3'-6" x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated).....	1,094.12	107.38
			For 18 Gauge, Grade II, Heavy Duty, Add	175.87	
			For Composite Door Instead Of Full Panel Door, Add	39.57	
			For Type 304 Stainless Steel Door, Add	714.23	
			For Type 316 Stainless Steel Door, Add	1,153.91	
			For Embossed Panel, Add	211.05	
			For Galvanized Steel, Add	131.90	
			For Baked Enamel Finish, Add	392.66	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-60.08	
			For >100, Deduct	-87.43	
			For 2" Thick Door, Add	69.12	
			For Insulated Door (Polystyrene Core), Add	87.94	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	219.84	
			For Seamless Edge (Welded), Add	109.92	
			For Steel Stiffened, Add	219.84	
08 13 13 13-0097	PR		Pair 4' x 7'-2" x 1-3/4" 18 Gauge Metal Door (Unrated)	1,203.88	115.97
			For 18 Gauge, Grade II, Heavy Duty, Add	194.39	
			For Composite Door Instead Of Full Panel Door, Add	43.74	
			For Type 304 Stainless Steel Door, Add	789.14	
			For Type 316 Stainless Steel Door, Add	1,275.11	
			For Embossed Panel, Add	233.26	
			For Galvanized Steel, Add	145.79	
			For Baked Enamel Finish, Add	430.75	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-65.99	
			For >100, Deduct	-96.09	
			For 2" Thick Door, Add	76.26	
			For Insulated Door (Polystyrene Core), Add	97.19	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	242.98	
			For Seamless Edge (Welded), Add	121.49	
			For Steel Stiffened, Add	242.98	
08 13 13 13-0098			8' High (08 13 13 13-0050)		
08 13 13 13-0099	EA		2' x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	550.31	49.73
			For 18 Gauge, Grade II, Heavy Duty, Add	90.17	
			For Up To 1' Extra Height, Add	124.75	
			For 1' To 1'-6" Extra Height, Add	238.00	
			For Composite Door Instead Of Full Panel Door, Add	20.29	
			For Type 304 Stainless Steel Door, Add	365.65	
			For Type 316 Stainless Steel Door, Add	591.07	
			For Embossed Panel, Add	108.20	
			For Galvanized Steel, Add	67.63	
			For Baked Enamel Finish, Add	194.93	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-30.00	
			For >100, Deduct	-43.76	
			For 2" Thick Door, Add	35.17	
			For Insulated Door (Polystyrene Core), Add	45.08	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	112.71	
			For Seamless Edge (Welded), Add	56.36	
			For Steel Stiffened, Add	112.71	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13-0100	EA		2'-4" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated).....	550.31	49.73
			For 18 Gauge, Grade II, Heavy Duty, Add	90.17	
			For Up To 1' Extra Height, Add	124.75	
			For 1' To 1'-6" Extra Height, Add	238.00	
			For Composite Door Instead Of Full Panel Door, Add	20.29	
			For Type 304 Stainless Steel Door, Add	365.65	
			For Type 316 Stainless Steel Door, Add	591.07	
			For Embossed Panel, Add	108.20	
			For Galvanized Steel, Add	67.63	
			For Baked Enamel Finish, Add	194.93	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-30.00	
			For >100, Deduct	-43.76	
			For 2" Thick Door, Add	35.17	
			For Insulated Door (Polystyrene Core), Add	45.08	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	112.71	
			For Seamless Edge (Welded), Add	56.36	
			For Steel Stiffened, Add	112.71	
08 13 13-0101	EA		2'-6" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated).....	564.05	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	92.01	
			For Up To 1' Extra Height, Add	127.30	
			For 1' To 1'-6" Extra Height, Add	242.87	
			For Composite Door Instead Of Full Panel Door, Add	20.70	
			For Type 304 Stainless Steel Door, Add	373.25	
			For Type 316 Stainless Steel Door, Add	603.28	
			For Embossed Panel, Add	110.41	
			For Galvanized Steel, Add	69.01	
			For Baked Enamel Finish, Add	200.41	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-30.80	
			For >100, Deduct	-44.90	
			For 2" Thick Door, Add	35.95	
			For Insulated Door (Polystyrene Core), Add	46.01	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	115.02	
			For Seamless Edge (Welded), Add	57.51	
			For Steel Stiffened, Add	115.02	
08 13 13-0102	EA		2'-8" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated).....	570.91	52.00
			For 18 Gauge, Grade II, Heavy Duty, Add	93.38	
			For Up To 1' Extra Height, Add	129.20	
			For 1' To 1'-6" Extra Height, Add	246.49	
			For Composite Door Instead Of Full Panel Door, Add	21.01	
			For Type 304 Stainless Steel Door, Add	378.74	
			For Type 316 Stainless Steel Door, Add	612.20	
			For Embossed Panel, Add	112.06	
			For Galvanized Steel, Add	70.04	
			For Baked Enamel Finish, Add	202.47	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-31.15	
			For >100, Deduct	-45.42	
			For 2" Thick Door, Add	36.45	
			For Insulated Door (Polystyrene Core), Add	46.69	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	116.73	
			For Seamless Edge (Welded), Add	58.37	
			For Steel Stiffened, Add	116.73	
08 13 13-0103	EA		2'-10" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated).....	575.93	53.12
			For 18 Gauge, Grade II, Heavy Duty, Add	93.93	
			For Up To 1' Extra Height, Add	129.96	
			For 1' To 1'-6" Extra Height, Add	247.94	
			For Composite Door Instead Of Full Panel Door, Add	21.14	
			For Type 304 Stainless Steel Door, Add	381.05	
			For Type 316 Stainless Steel Door, Add	615.88	
			For Embossed Panel, Add	112.72	
			For Galvanized Steel, Add	70.45	
			For Baked Enamel Finish, Add	204.66	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-31.45	
			For >100, Deduct	-45.85	
			For 2" Thick Door, Add	36.71	
			For Insulated Door (Polystyrene Core), Add	46.97	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	117.42	
			For Seamless Edge (Welded), Add	58.71	
			For Steel Stiffened, Add	117.42	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Doors	08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0104	EA		3' x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	580.92	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	94.48	
			For Up To 1' Extra Height, Add	130.72	
			For 1' To 1'-6" Extra Height, Add	249.39	
			For Composite Door Instead Of Full Panel Door, Add	21.26	
			For Type 304 Stainless Steel Door, Add	383.35	
			For Type 316 Stainless Steel Door, Add	619.56	
			For Embossed Panel, Add	113.38	
			For Galvanized Steel, Add	70.86	
			For Baked Enamel Finish, Add	206.83	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-31.76	
			For >100, Deduct	-46.28	
			For 2" Thick Door, Add	36.96	
			For Insulated Door (Polystyrene Core), Add	47.24	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	118.10	
			For Seamless Edge (Welded), Add	59.05	
			For Steel Stiffened, Add	118.10	
08 13 13 13-0105	EA		3'-4" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	616.63	54.26
			For 18 Gauge, Grade II, Heavy Duty, Add	101.62	
			For Up To 1' Extra Height, Add	140.60	
			For 1' To 1'-6" Extra Height, Add	268.24	
			For Composite Door Instead Of Full Panel Door, Add	22.87	
			For Type 304 Stainless Steel Door, Add	411.92	
			For Type 316 Stainless Steel Door, Add	665.98	
			For Embossed Panel, Add	121.95	
			For Galvanized Steel, Add	76.22	
			For Baked Enamel Finish, Add	217.54	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.54	
			For >100, Deduct	-48.96	
			For 2" Thick Door, Add	39.55	
			For Insulated Door (Polystyrene Core), Add	50.81	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	127.03	
			For Seamless Edge (Welded), Add	63.52	
			For Steel Stiffened, Add	127.03	
08 13 13 13-0106	EA		3'-6" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	634.90	56.51
			For 18 Gauge, Grade II, Heavy Duty, Add	104.37	
			For Up To 1' Extra Height, Add	144.40	
			For 1' To 1'-6" Extra Height, Add	275.49	
			For Composite Door Instead Of Full Panel Door, Add	23.48	
			For Type 304 Stainless Steel Door, Add	423.14	
			For Type 316 Stainless Steel Door, Add	684.07	
			For Embossed Panel, Add	125.25	
			For Galvanized Steel, Add	78.28	
			For Baked Enamel Finish, Add	224.38	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.57	
			For >100, Deduct	-50.44	
			For 2" Thick Door, Add	40.66	
			For Insulated Door (Polystyrene Core), Add	52.19	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	130.47	
			For Seamless Edge (Welded), Add	65.23	
			For Steel Stiffened, Add	130.47	
08 13 13 13-0107	EA		4' x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	698.87	61.04
			For 18 Gauge, Grade II, Heavy Duty, Add	115.36	
			For Up To 1' Extra Height, Add	159.60	
			For 1' To 1'-6" Extra Height, Add	304.49	
			For Composite Door Instead Of Full Panel Door, Add	25.96	
			For Type 304 Stainless Steel Door, Add	467.54	
			For Type 316 Stainless Steel Door, Add	755.93	
			For Embossed Panel, Add	138.43	
			For Galvanized Steel, Add	86.52	
			For Baked Enamel Finish, Add	246.29	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-38.00	
			For >100, Deduct	-55.47	
			For 2" Thick Door, Add	44.87	
			For Insulated Door (Polystyrene Core), Add	57.68	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	144.20	
			For Seamless Edge (Welded), Add	72.10	
			For Steel Stiffened, Add	144.20	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13-0108	PR		Pair 2'-6" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,117.69	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	184.02	
			For Up To 1' Extra Height, Add	254.59	
			For 1' To 1'-6" Extra Height, Add	485.73	
			For Composite Door Instead Of Full Panel Door, Add	41.40	
			For Type 304 Stainless Steel Door, Add	745.97	
			For Type 316 Stainless Steel Door, Add	1,206.02	
			For Embossed Panel, Add	220.83	
			For Galvanized Steel, Add	138.02	
			For Baked Enamel Finish, Add	394.58	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-60.82	
			For >100, Deduct	-88.77	
			For 2" Thick Door, Add	71.65	
			For Insulated Door (Polystyrene Core), Add	92.01	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	230.03	
			For Seamless Edge (Welded), Add	115.01	
			For Steel Stiffened, Add	230.03	
08 13 13-0109	PR		Pair 2'-8" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,131.43	98.79
			For 18 Gauge, Grade II, Heavy Duty, Add	186.77	
			For Up To 1' Extra Height, Add	258.40	
			For 1' To 1'-6" Extra Height, Add	492.98	
			For Composite Door Instead Of Full Panel Door, Add	42.02	
			For Type 304 Stainless Steel Door, Add	756.96	
			For Type 316 Stainless Steel Door, Add	1,223.88	
			For Embossed Panel, Add	224.12	
			For Galvanized Steel, Add	140.08	
			For Baked Enamel Finish, Add	398.70	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-61.51	
			For >100, Deduct	-89.80	
			For 2" Thick Door, Add	72.64	
			For Insulated Door (Polystyrene Core), Add	93.39	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	233.46	
			For Seamless Edge (Welded), Add	116.73	
			For Steel Stiffened, Add	233.46	
08 13 13-0110	PR		Pair 2'-10" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,115.68	88.17
			For 18 Gauge, Grade II, Heavy Duty, Add	187.87	
			For Up To 1' Extra Height, Add	259.92	
			For 1' To 1'-6" Extra Height, Add	495.88	
			For Composite Door Instead Of Full Panel Door, Add	42.27	
			For Type 304 Stainless Steel Door, Add	760.29	
			For Type 316 Stainless Steel Door, Add	1,229.96	
			For Embossed Panel, Add	225.44	
			For Galvanized Steel, Add	140.90	
			For Baked Enamel Finish, Add	387.61	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-60.19	
			For >100, Deduct	-88.08	
			For 2" Thick Door, Add	72.51	
			For Insulated Door (Polystyrene Core), Add	93.93	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	234.84	
			For Seamless Edge (Welded), Add	117.42	
			For Steel Stiffened, Add	234.84	
08 13 13-0111	PR		Pair 3' x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,151.00	103.09
			For 18 Gauge, Grade II, Heavy Duty, Add	188.97	
			For Up To 1' Extra Height, Add	261.43	
			For 1' To 1'-6" Extra Height, Add	498.78	
			For Composite Door Instead Of Full Panel Door, Add	42.52	
			For Type 304 Stainless Steel Door, Add	766.17	
			For Type 316 Stainless Steel Door, Add	1,238.59	
			For Embossed Panel, Add	226.76	
			For Galvanized Steel, Add	141.72	
			For Baked Enamel Finish, Add	407.15	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-62.70	
			For >100, Deduct	-91.48	
			For 2" Thick Door, Add	73.65	
			For Insulated Door (Polystyrene Core), Add	94.48	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	236.21	
			For Seamless Edge (Welded), Add	118.10	
			For Steel Stiffened, Add	236.21	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Doors	08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0112	PR		Pair 3'-6" x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,258.47	107.38
			For 18 Gauge, Grade II, Heavy Duty, Add	208.74	
			For Up To 1' Extra Height, Add	288.79	
			For 1' To 1'-6" Extra Height, Add	550.97	
			For Composite Door Instead Of Full Panel Door, Add	46.97	
			For Type 304 Stainless Steel Door, Add	845.71	
			For Type 316 Stainless Steel Door, Add	1,367.56	
			For Embossed Panel, Add	250.49	
			For Galvanized Steel, Add	156.56	
			For Baked Enamel Finish, Add	441.97	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-68.29	
			For >100, Deduct	-99.75	
			For 2" Thick Door, Add	81.04	
			For Insulated Door (Polystyrene Core), Add	104.37	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	260.93	
			For Seamless Edge (Welded), Add	130.46	
			For Steel Stiffened, Add	260.93	
08 13 13 13-0113	PR		Pair 4' x 8' x 1-3/4" 18 Gauge Metal Door (Unrated)	1,385.53	115.97
			For Composite Door Instead Of Full Panel Door, Add	51.91	
			For Type 304 Stainless Steel Door, Add	934.46	
			For Type 316 Stainless Steel Door, Add	1,511.25	
			For Embossed Panel, Add	276.86	
			For Galvanized Steel, Add	173.04	
			For Baked Enamel Finish, Add	485.24	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-75.08	
			For >100, Deduct	-109.71	
			For 2" Thick Door, Add	89.43	
			For Insulated Door (Polystyrene Core), Add	115.36	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	288.40	
			For Seamless Edge (Welded), Add	144.20	
			For Steel Stiffened, Add	288.40	
08 13 13 13-0114			16 Gauge 1-3/4" Unrated Door (08 13 13 13)		
08 13 13 13-0115			6'-8" High (08 13 13 13-0114)		
08 13 13 13-0116	EA		2' x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	601.72	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	150.68	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	200.90	
			For Composite Door Instead Of Full Panel Door, Add	22.60	
			For Type 304 Stainless Steel Door, Add	406.77	
			For Type 316 Stainless Steel Door, Add	657.90	
			For Embossed Panel, Add	120.54	
			For Galvanized Steel, Add	75.34	
			For Baked Enamel Finish, Add	210.36	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-32.57	
			For >100, Deduct	-47.62	
			For 2" Thick Door, Add	38.90	
			For Insulated Door (Polystyrene Core), Add	50.23	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	125.56	
			For Seamless Edge (Welded), Add	62.78	
			For Steel Stiffened, Add	125.56	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0117	EA		2'-4" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	601.72	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	150.68	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	200.90	
			For Composite Door Instead Of Full Panel Door, Add	22.60	
			For Type 304 Stainless Steel Door, Add	406.77	
			For Type 316 Stainless Steel Door, Add	657.90	
			For Embossed Panel, Add	120.54	
			For Galvanized Steel, Add	75.34	
			For Baked Enamel Finish, Add	210.36	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-32.57	
			For >100, Deduct	-47.62	
			For 2" Thick Door, Add	38.90	
			For Insulated Door (Polystyrene Core), Add	50.23	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	125.56	
			For Seamless Edge (Welded), Add	62.78	
			For Steel Stiffened, Add	125.56	
08 13 13 13-0118	EA		2'-6" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	616.51	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	153.76	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	205.01	
			For Composite Door Instead Of Full Panel Door, Add	23.06	
			For Type 304 Stainless Steel Door, Add	415.22	
			For Type 316 Stainless Steel Door, Add	671.48	
			For Embossed Panel, Add	123.00	
			For Galvanized Steel, Add	76.88	
			For Baked Enamel Finish, Add	216.15	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.43	
			For >100, Deduct	-48.84	
			For 2" Thick Door, Add	39.76	
			For Insulated Door (Polystyrene Core), Add	51.25	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	128.13	
			For Seamless Edge (Welded), Add	64.07	
			For Steel Stiffened, Add	128.13	
08 13 13 13-0119	EA		2'-8" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	624.16	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	156.05	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	208.07	
			For Composite Door Instead Of Full Panel Door, Add	23.41	
			For Type 304 Stainless Steel Door, Add	421.34	
			For Type 316 Stainless Steel Door, Add	681.42	
			For Embossed Panel, Add	124.84	
			For Galvanized Steel, Add	78.03	
			For Baked Enamel Finish, Add	218.45	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.81	
			For >100, Deduct	-49.41	
			For 2" Thick Door, Add	40.31	
			For Insulated Door (Polystyrene Core), Add	52.02	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	130.04	
			For Seamless Edge (Welded), Add	65.02	
			For Steel Stiffened, Add	130.04	
08 13 13 13-0120	EA		2'-10" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	629.49	53.12
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	156.97	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	209.29	
			For Composite Door Instead Of Full Panel Door, Add	23.55	
			For Type 304 Stainless Steel Door, Add	423.90	
			For Type 316 Stainless Steel Door, Add	685.51	
			For Embossed Panel, Add	125.58	
			For Galvanized Steel, Add	78.48	
			For Baked Enamel Finish, Add	220.73	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.13	
			For >100, Deduct	-49.87	
			For 2" Thick Door, Add	40.59	
			For Insulated Door (Polystyrene Core), Add	52.32	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	130.81	
			For Seamless Edge (Welded), Add	65.40	
			For Steel Stiffened, Add	130.81	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0121	EA		3' x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	634.80	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	157.89	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	210.52	
			For Composite Door Instead Of Full Panel Door, Add	23.68	
			For Type 304 Stainless Steel Door, Add	426.46	
			For Type 316 Stainless Steel Door, Add	689.60	
			For Embossed Panel, Add	126.31	
			For Galvanized Steel, Add	78.94	
			For Baked Enamel Finish, Add	222.99	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.45	
			For >100, Deduct	-50.32	
			For 2" Thick Door, Add	40.87	
			For Insulated Door (Polystyrene Core), Add	52.63	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	131.57	
			For Seamless Edge (Welded), Add	65.79	
			For Steel Stiffened, Add	131.57	
08 13 13 13-0122	EA		3'-4" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	674.58	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	169.82	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	226.43	
			For Composite Door Instead Of Full Panel Door, Add	25.47	
			For Type 304 Stainless Steel Door, Add	458.28	
			For Type 316 Stainless Steel Door, Add	741.32	
			For Embossed Panel, Add	135.86	
			For Galvanized Steel, Add	84.91	
			For Baked Enamel Finish, Add	234.93	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-36.44	
			For >100, Deduct	-53.31	
			For 2" Thick Door, Add	43.75	
			For Insulated Door (Polystyrene Core), Add	56.61	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	141.52	
			For Seamless Edge (Welded), Add	70.76	
			For Steel Stiffened, Add	141.52	
08 13 13 13-0123	EA		3'-6" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	694.40	56.51
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	174.41	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	232.54	
			For Composite Door Instead Of Full Panel Door, Add	26.16	
			For Type 304 Stainless Steel Door, Add	470.74	
			For Type 316 Stainless Steel Door, Add	761.42	
			For Embossed Panel, Add	139.53	
			For Galvanized Steel, Add	87.20	
			For Baked Enamel Finish, Add	242.23	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-37.55	
			For >100, Deduct	-54.91	
			For 2" Thick Door, Add	44.97	
			For Insulated Door (Polystyrene Core), Add	58.14	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	145.34	
			For Seamless Edge (Welded), Add	72.67	
			For Steel Stiffened, Add	145.34	
08 13 13 13-0124	EA		4' x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	764.64	61.04
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	192.77	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	257.02	
			For Composite Door Instead Of Full Panel Door, Add	28.92	
			For Type 304 Stainless Steel Door, Add	520.15	
			For Type 316 Stainless Steel Door, Add	841.43	
			For Embossed Panel, Add	154.21	
			For Galvanized Steel, Add	96.38	
			For Baked Enamel Finish, Add	266.02	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-41.28	
			For >100, Deduct	-60.40	
			For 2" Thick Door, Add	49.64	
			For Insulated Door (Polystyrene Core), Add	64.26	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	160.64	
			For Seamless Edge (Welded), Add	80.32	
			For Steel Stiffened, Add	160.64	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0125	PR		Pair 2'-6" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,222.62	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	307.51	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	410.02	
			For Composite Door Instead Of Full Panel Door, Add	46.13	
			For Type 304 Stainless Steel Door, Add	829.91	
			For Type 316 Stainless Steel Door, Add	1,342.43	
			For Embossed Panel, Add	246.01	
			For Galvanized Steel, Add	153.76	
			For Baked Enamel Finish, Add	426.06	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-66.07	
			For >100, Deduct	-96.64	
			For 2" Thick Door, Add	79.25	
			For Insulated Door (Polystyrene Core), Add	102.50	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	256.26	
			For Seamless Edge (Welded), Add	128.13	
			For Steel Stiffened, Add	256.26	
08 13 13 13-0126	PR		Pair 2'-8" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,237.92	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	312.10	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	416.14	
			For Composite Door Instead Of Full Panel Door, Add	46.82	
			For Type 304 Stainless Steel Door, Add	842.15	
			For Type 316 Stainless Steel Door, Add	1,362.32	
			For Embossed Panel, Add	249.68	
			For Galvanized Steel, Add	156.05	
			For Baked Enamel Finish, Add	430.65	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-66.84	
			For >100, Deduct	-97.78	
			For 2" Thick Door, Add	80.36	
			For Insulated Door (Polystyrene Core), Add	104.03	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	260.09	
			For Seamless Edge (Welded), Add	130.04	
			For Steel Stiffened, Add	260.09	
08 13 13 13-0127	PR		Pair 2'-10" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,222.80	88.17
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	313.94	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	418.58	
			For Composite Door Instead Of Full Panel Door, Add	47.09	
			For Type 304 Stainless Steel Door, Add	845.99	
			For Type 316 Stainless Steel Door, Add	1,369.22	
			For Embossed Panel, Add	251.15	
			For Galvanized Steel, Add	156.97	
			For Baked Enamel Finish, Add	419.74	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-65.55	
			For >100, Deduct	-96.12	
			For 2" Thick Door, Add	80.28	
			For Insulated Door (Polystyrene Core), Add	104.65	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	261.62	
			For Seamless Edge (Welded), Add	130.81	
			For Steel Stiffened, Add	261.62	
08 13 13 13-0128	PR		Pair 3' x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,258.75	103.09
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	315.77	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	421.03	
			For Composite Door Instead Of Full Panel Door, Add	47.37	
			For Type 304 Stainless Steel Door, Add	852.37	
			For Type 316 Stainless Steel Door, Add	1,378.66	
			For Embossed Panel, Add	252.62	
			For Galvanized Steel, Add	157.89	
			For Baked Enamel Finish, Add	439.48	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-68.09	
			For >100, Deduct	-99.56	
			For 2" Thick Door, Add	81.47	
			For Insulated Door (Polystyrene Core), Add	105.26	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	263.15	
			For Seamless Edge (Welded), Add	131.57	
			For Steel Stiffened, Add	263.15	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0129	PR		Pair 3'-6" x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	1,377.49	107.38
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	348.82	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	465.09	
			For Composite Door Instead Of Full Panel Door, Add	52.32	
			For Type 304 Stainless Steel Door, Add	940.92	
			For Type 316 Stainless Steel Door, Add	1,522.29	
			For Embossed Panel, Add	279.06	
			For Galvanized Steel, Add	174.41	
			For Baked Enamel Finish, Add	477.68	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-74.24	
			For >100, Deduct	-108.68	
			For 2" Thick Door, Add	89.67	
			For Insulated Door (Polystyrene Core), Add	116.27	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	290.68	
			For Seamless Edge (Welded), Add	145.34	
			For Steel Stiffened, Add	290.68	
08 13 13 13-0130	PR		Pair 4' x 6'-8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	1,517.07	115.97
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	385.54	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	514.05	
			For Composite Door Instead Of Full Panel Door, Add	57.83	
			For Type 304 Stainless Steel Door, Add	1,039.69	
			For Type 316 Stainless Steel Door, Add	1,682.25	
			For Embossed Panel, Add	308.43	
			For Galvanized Steel, Add	192.77	
			For Baked Enamel Finish, Add	524.71	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-81.65	
			For >100, Deduct	-119.58	
			For 2" Thick Door, Add	98.97	
			For Insulated Door (Polystyrene Core), Add	128.51	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	321.28	
			For Seamless Edge (Welded), Add	160.64	
			For Steel Stiffened, Add	321.28	
08 13 13 13-0131			7' High (08 13 13 13-0114)		
08 13 13 13-0132	EA		2' x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	613.64	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	154.25	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	205.67	
			For Composite Door Instead Of Full Panel Door, Add	23.14	
			For Type 304 Stainless Steel Door, Add	416.31	
			For Type 316 Stainless Steel Door, Add	673.39	
			For Embossed Panel, Add	123.40	
			For Galvanized Steel, Add	77.13	
			For Baked Enamel Finish, Add	213.93	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.17	
			For >100, Deduct	-48.51	
			For 2" Thick Door, Add	39.76	
			For Insulated Door (Polystyrene Core), Add	51.42	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	128.54	
			For Seamless Edge (Welded), Add	64.27	
			For Steel Stiffened, Add	128.54	
08 13 13 13-0133	EA		2'-4" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	613.64	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	154.25	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	205.67	
			For Composite Door Instead Of Full Panel Door, Add	23.14	
			For Type 304 Stainless Steel Door, Add	416.31	
			For Type 316 Stainless Steel Door, Add	673.39	
			For Embossed Panel, Add	123.40	
			For Galvanized Steel, Add	77.13	
			For Baked Enamel Finish, Add	213.93	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.17	
			For >100, Deduct	-48.51	
			For 2" Thick Door, Add	39.76	
			For Insulated Door (Polystyrene Core), Add	51.42	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	128.54	
			For Seamless Edge (Welded), Add	64.27	
			For Steel Stiffened, Add	128.54	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0134	EA		2'-6" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	628.67	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	157.40	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	209.87	
			For Composite Door Instead Of Full Panel Door, Add	23.61	
			For Type 304 Stainless Steel Door, Add	424.94	
			For Type 316 Stainless Steel Door, Add	687.28	
			For Embossed Panel, Add	125.92	
			For Galvanized Steel, Add	78.70	
			For Baked Enamel Finish, Add	219.80	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.03	
			For >100, Deduct	-49.75	
			For 2" Thick Door, Add	40.64	
			For Insulated Door (Polystyrene Core), Add	52.47	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	131.17	
			For Seamless Edge (Welded), Add	65.59	
			For Steel Stiffened, Add	131.17	
08 13 13 13-0135	EA		2'-8" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	636.50	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	159.75	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	213.00	
			For Composite Door Instead Of Full Panel Door, Add	23.96	
			For Type 304 Stainless Steel Door, Add	431.21	
			For Type 316 Stainless Steel Door, Add	697.46	
			For Embossed Panel, Add	127.80	
			For Galvanized Steel, Add	79.88	
			For Baked Enamel Finish, Add	222.15	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.42	
			For >100, Deduct	-50.34	
			For 2" Thick Door, Add	41.21	
			For Insulated Door (Polystyrene Core), Add	53.25	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	133.13	
			For Seamless Edge (Welded), Add	66.56	
			For Steel Stiffened, Add	133.13	
08 13 13 13-0136	EA		2'-10" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	641.90	53.12
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	160.69	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	214.26	
			For Composite Door Instead Of Full Panel Door, Add	24.10	
			For Type 304 Stainless Steel Door, Add	433.83	
			For Type 316 Stainless Steel Door, Add	701.65	
			For Embossed Panel, Add	128.55	
			For Galvanized Steel, Add	80.35	
			For Baked Enamel Finish, Add	224.45	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.75	
			For >100, Deduct	-50.80	
			For 2" Thick Door, Add	41.49	
			For Insulated Door (Polystyrene Core), Add	53.56	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	133.91	
			For Seamless Edge (Welded), Add	66.96	
			For Steel Stiffened, Add	133.91	
08 13 13 13-0137	EA		3' x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	647.29	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	161.63	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	215.51	
			For Composite Door Instead Of Full Panel Door, Add	24.25	
			For Type 304 Stainless Steel Door, Add	436.45	
			For Type 316 Stainless Steel Door, Add	705.84	
			For Embossed Panel, Add	129.31	
			For Galvanized Steel, Add	80.82	
			For Baked Enamel Finish, Add	226.74	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-35.08	
			For >100, Deduct	-51.26	
			For 2" Thick Door, Add	41.77	
			For Insulated Door (Polystyrene Core), Add	53.88	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	134.70	
			For Seamless Edge (Welded), Add	67.35	
			For Steel Stiffened, Add	134.70	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0138	EA		3'-4" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	688.01	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	173.85	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	231.80	
			For Composite Door Instead Of Full Panel Door, Add	26.08	
			For Type 304 Stainless Steel Door, Add	469.03	
			For Type 316 Stainless Steel Door, Add	758.78	
			For Embossed Panel, Add	139.08	
			For Galvanized Steel, Add	86.93	
			For Baked Enamel Finish, Add	238.96	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-37.11	
			For >100, Deduct	-54.31	
			For 2" Thick Door, Add	44.73	
			For Insulated Door (Polystyrene Core), Add	57.95	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	144.88	
			For Seamless Edge (Welded), Add	72.44	
			For Steel Stiffened, Add	144.88	
08 13 13 13-0139	EA		3'-6" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	708.20	56.51
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	178.55	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	238.06	
			For Composite Door Instead Of Full Panel Door, Add	26.78	
			For Type 304 Stainless Steel Door, Add	481.78	
			For Type 316 Stainless Steel Door, Add	779.36	
			For Embossed Panel, Add	142.84	
			For Galvanized Steel, Add	89.27	
			For Baked Enamel Finish, Add	246.37	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-38.24	
			For >100, Deduct	-55.94	
			For 2" Thick Door, Add	45.98	
			For Insulated Door (Polystyrene Core), Add	59.52	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	148.79	
			For Seamless Edge (Welded), Add	74.40	
			For Steel Stiffened, Add	148.79	
08 13 13 13-0140	EA		4' x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	779.89	61.04
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	197.34	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	263.12	
			For Composite Door Instead Of Full Panel Door, Add	29.60	
			For Type 304 Stainless Steel Door, Add	532.35	
			For Type 316 Stainless Steel Door, Add	861.26	
			For Embossed Panel, Add	157.87	
			For Galvanized Steel, Add	98.67	
			For Baked Enamel Finish, Add	270.59	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-42.05	
			For >100, Deduct	-61.54	
			For 2" Thick Door, Add	50.74	
			For Insulated Door (Polystyrene Core), Add	65.78	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	164.45	
			For Seamless Edge (Welded), Add	82.23	
			For Steel Stiffened, Add	164.45	
08 13 13 13-0141	PR		Pair 2'-6" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,246.94	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	314.81	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	419.74	
			For Composite Door Instead Of Full Panel Door, Add	47.22	
			For Type 304 Stainless Steel Door, Add	849.37	
			For Type 316 Stainless Steel Door, Add	1,374.05	
			For Embossed Panel, Add	251.85	
			For Galvanized Steel, Add	157.40	
			For Baked Enamel Finish, Add	433.36	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-67.29	
			For >100, Deduct	-98.46	
			For 2" Thick Door, Add	81.02	
			For Insulated Door (Polystyrene Core), Add	104.94	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	262.34	
			For Seamless Edge (Welded), Add	131.17	
			For Steel Stiffened, Add	262.34	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0142	PR		Pair 2'-8" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,262.61	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	319.51	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	426.01	
			For Composite Door Instead Of Full Panel Door, Add	47.93	
			For Type 304 Stainless Steel Door, Add	861.90	
			For Type 316 Stainless Steel Door, Add	1,394.42	
			For Embossed Panel, Add	255.61	
			For Galvanized Steel, Add	159.75	
			For Baked Enamel Finish, Add	438.06	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-68.07	
			For >100, Deduct	-99.64	
			For 2" Thick Door, Add	82.15	
			For Insulated Door (Polystyrene Core), Add	106.50	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	266.26	
			For Seamless Edge (Welded), Add	133.13	
			For Steel Stiffened, Add	266.26	
08 13 13 13-0143	PR		Pair 2'-10" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,247.63	88.17
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	321.39	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	428.52	
			For Composite Door Instead Of Full Panel Door, Add	48.21	
			For Type 304 Stainless Steel Door, Add	865.85	
			For Type 316 Stainless Steel Door, Add	1,401.49	
			For Embossed Panel, Add	257.11	
			For Galvanized Steel, Add	160.69	
			For Baked Enamel Finish, Add	427.19	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-66.79	
			For >100, Deduct	-97.98	
			For 2" Thick Door, Add	82.08	
			For Insulated Door (Polystyrene Core), Add	107.13	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	267.82	
			For Seamless Edge (Welded), Add	133.91	
			For Steel Stiffened, Add	267.82	
08 13 13 13-0144	PR		Pair 3' x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,283.73	103.09
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	323.27	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	431.02	
			For Composite Door Instead Of Full Panel Door, Add	48.49	
			For Type 304 Stainless Steel Door, Add	872.36	
			For Type 316 Stainless Steel Door, Add	1,411.14	
			For Embossed Panel, Add	258.61	
			For Galvanized Steel, Add	161.63	
			For Baked Enamel Finish, Add	446.97	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-69.34	
			For >100, Deduct	-101.43	
			For 2" Thick Door, Add	83.28	
			For Insulated Door (Polystyrene Core), Add	107.76	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	269.39	
			For Seamless Edge (Welded), Add	134.70	
			For Steel Stiffened, Add	269.39	
08 13 13 13-0145	PR		Pair 3'-6" x 7' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,405.08	107.38
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	357.10	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	476.13	
			For Composite Door Instead Of Full Panel Door, Add	53.56	
			For Type 304 Stainless Steel Door, Add	962.99	
			For Type 316 Stainless Steel Door, Add	1,558.15	
			For Embossed Panel, Add	285.68	
			For Galvanized Steel, Add	178.55	
			For Baked Enamel Finish, Add	485.95	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-75.62	
			For >100, Deduct	-110.75	
			For 2" Thick Door, Add	91.67	
			For Insulated Door (Polystyrene Core), Add	119.03	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	297.58	
			For Seamless Edge (Welded), Add	148.79	
			For Steel Stiffened, Add	297.58	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0146	PR		Pair 4' x 7' x 1-3/4" 16 Gauge Metal Door (Unrated).....	1,547.57	115.97
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	394.69	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	526.25	
			For Composite Door Instead Of Full Panel Door, Add	59.20	
			For Type 304 Stainless Steel Door, Add	1,064.09	
			For Type 316 Stainless Steel Door, Add	1,721.90	
			For Embossed Panel, Add	315.75	
			For Galvanized Steel, Add	197.34	
			For Baked Enamel Finish, Add	533.86	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-83.18	
			For >100, Deduct	-121.87	
			For 2" Thick Door, Add	101.18	
			For Insulated Door (Polystyrene Core), Add	131.56	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	328.91	
			For Seamless Edge (Welded), Add	164.45	
			For Steel Stiffened, Add	328.91	
08 13 13 13-0147			7'-2" High (08 13 13 13-0114)		
08 13 13 13-0148	EA		2' x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated).....	625.56	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	157.83	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	210.44	
			For Composite Door Instead Of Full Panel Door, Add	23.67	
			For Type 304 Stainless Steel Door, Add	425.85	
			For Type 316 Stainless Steel Door, Add	688.89	
			For Embossed Panel, Add	126.26	
			For Galvanized Steel, Add	78.91	
			For Baked Enamel Finish, Add	217.51	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.76	
			For >100, Deduct	-49.40	
			For 2" Thick Door, Add	40.63	
			For Insulated Door (Polystyrene Core), Add	52.61	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	131.52	
			For Seamless Edge (Welded), Add	65.76	
			For Steel Stiffened, Add	131.52	
08 13 13 13-0149	EA		2'-4" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated).....	625.56	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	157.83	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	210.44	
			For Composite Door Instead Of Full Panel Door, Add	23.67	
			For Type 304 Stainless Steel Door, Add	425.85	
			For Type 316 Stainless Steel Door, Add	688.89	
			For Embossed Panel, Add	126.26	
			For Galvanized Steel, Add	78.91	
			For Baked Enamel Finish, Add	217.51	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-33.76	
			For >100, Deduct	-49.40	
			For 2" Thick Door, Add	40.63	
			For Insulated Door (Polystyrene Core), Add	52.61	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	131.52	
			For Seamless Edge (Welded), Add	65.76	
			For Steel Stiffened, Add	131.52	
08 13 13 13-0150	EA		2'-6" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated).....	640.84	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	161.06	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	214.74	
			For Composite Door Instead Of Full Panel Door, Add	24.16	
			For Type 304 Stainless Steel Door, Add	434.68	
			For Type 316 Stainless Steel Door, Add	703.10	
			For Embossed Panel, Add	128.84	
			For Galvanized Steel, Add	80.53	
			For Baked Enamel Finish, Add	223.45	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-34.64	
			For >100, Deduct	-50.66	
			For 2" Thick Door, Add	41.52	
			For Insulated Door (Polystyrene Core), Add	53.69	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	134.21	
			For Seamless Edge (Welded), Add	67.11	
			For Steel Stiffened, Add	134.21	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0151	EA		2'-8" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	648.85	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	163.46	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	217.94	
			For Composite Door Instead Of Full Panel Door, Add	24.52	
			For Type 304 Stainless Steel Door, Add	441.09	
			For Type 316 Stainless Steel Door, Add	713.52	
			For Embossed Panel, Add	130.77	
			For Galvanized Steel, Add	81.73	
			For Baked Enamel Finish, Add	225.85	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-35.04	
			For >100, Deduct	-51.26	
			For 2" Thick Door, Add	42.10	
			For Insulated Door (Polystyrene Core), Add	54.49	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	136.22	
			For Seamless Edge (Welded), Add	68.11	
			For Steel Stiffened, Add	136.22	
08 13 13 13-0152	EA		2'-10" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	654.32	53.12
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	164.42	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	219.22	
			For Composite Door Instead Of Full Panel Door, Add	24.66	
			For Type 304 Stainless Steel Door, Add	443.76	
			For Type 316 Stainless Steel Door, Add	717.79	
			For Embossed Panel, Add	131.53	
			For Galvanized Steel, Add	82.21	
			For Baked Enamel Finish, Add	228.17	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-35.37	
			For >100, Deduct	-51.73	
			For 2" Thick Door, Add	42.39	
			For Insulated Door (Polystyrene Core), Add	54.81	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	137.02	
			For Seamless Edge (Welded), Add	68.51	
			For Steel Stiffened, Add	137.02	
08 13 13 13-0153	EA		3' x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	659.78	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	165.38	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	220.51	
			For Composite Door Instead Of Full Panel Door, Add	24.81	
			For Type 304 Stainless Steel Door, Add	446.44	
			For Type 316 Stainless Steel Door, Add	722.08	
			For Embossed Panel, Add	132.30	
			For Galvanized Steel, Add	82.69	
			For Baked Enamel Finish, Add	230.49	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-35.70	
			For >100, Deduct	-52.20	
			For 2" Thick Door, Add	42.68	
			For Insulated Door (Polystyrene Core), Add	55.13	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	137.82	
			For Seamless Edge (Welded), Add	68.91	
			For Steel Stiffened, Add	137.82	
08 13 13 13-0154	EA		3'-4" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	701.44	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	177.88	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	237.17	
			For Composite Door Instead Of Full Panel Door, Add	26.68	
			For Type 304 Stainless Steel Door, Add	479.77	
			For Type 316 Stainless Steel Door, Add	776.23	
			For Embossed Panel, Add	142.30	
			For Galvanized Steel, Add	88.94	
			For Baked Enamel Finish, Add	242.99	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-37.78	
			For >100, Deduct	-55.32	
			For 2" Thick Door, Add	45.70	
			For Insulated Door (Polystyrene Core), Add	59.29	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	148.23	
			For Seamless Edge (Welded), Add	74.12	
			For Steel Stiffened, Add	148.23	



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0155	EA		3'-6" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	722.00	56.51
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	182.69	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	243.58	
			For Composite Door Instead Of Full Panel Door, Add	27.40	
			For Type 304 Stainless Steel Door, Add	492.82	
			For Type 316 Stainless Steel Door, Add	797.30	
			For Embossed Panel, Add	146.15	
			For Galvanized Steel, Add	91.34	
			For Baked Enamel Finish, Add	250.51	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-38.93	
			For >100, Deduct	-56.98	
			For 2" Thick Door, Add	46.98	
			For Insulated Door (Polystyrene Core), Add	60.90	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	152.24	
			For Seamless Edge (Welded), Add	76.12	
			For Steel Stiffened, Add	152.24	
08 13 13 13-0156	EA		4' x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	795.14	61.04
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	201.92	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	269.22	
			For Composite Door Instead Of Full Panel Door, Add	30.29	
			For Type 304 Stainless Steel Door, Add	544.55	
			For Type 316 Stainless Steel Door, Add	881.08	
			For Embossed Panel, Add	161.53	
			For Galvanized Steel, Add	100.96	
			For Baked Enamel Finish, Add	275.17	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-42.81	
			For >100, Deduct	-62.69	
			For 2" Thick Door, Add	51.85	
			For Insulated Door (Polystyrene Core), Add	67.31	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	168.27	
			For Seamless Edge (Welded), Add	84.13	
			For Steel Stiffened, Add	168.27	
08 13 13 13-0157	PR		Pair 2'-6" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,271.27	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	322.11	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	429.48	
			For Composite Door Instead Of Full Panel Door, Add	48.32	
			For Type 304 Stainless Steel Door, Add	868.83	
			For Type 316 Stainless Steel Door, Add	1,405.68	
			For Embossed Panel, Add	257.69	
			For Galvanized Steel, Add	161.05	
			For Baked Enamel Finish, Add	440.66	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-68.50	
			For >100, Deduct	-100.28	
			For 2" Thick Door, Add	82.78	
			For Insulated Door (Polystyrene Core), Add	107.37	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	268.42	
			For Seamless Edge (Welded), Add	134.21	
			For Steel Stiffened, Add	268.42	
08 13 13 13-0158	PR		Pair 2'-8" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,287.30	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	326.92	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	435.89	
			For Composite Door Instead Of Full Panel Door, Add	49.04	
			For Type 304 Stainless Steel Door, Add	881.66	
			For Type 316 Stainless Steel Door, Add	1,426.52	
			For Embossed Panel, Add	261.53	
			For Galvanized Steel, Add	163.46	
			For Baked Enamel Finish, Add	445.46	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-69.30	
			For >100, Deduct	-101.49	
			For 2" Thick Door, Add	83.94	
			For Insulated Door (Polystyrene Core), Add	108.97	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	272.43	
			For Seamless Edge (Welded), Add	136.22	
			For Steel Stiffened, Add	272.43	

08 Openings
08 10 Doors And Frames
08 13 Metal Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0159	PR		Pair 2'-10" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated).....	1,272.47	88.17
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	328.84	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	438.45	
			For Composite Door Instead Of Full Panel Door, Add	49.33	
			For Type 304 Stainless Steel Door, Add	885.72	
			For Type 316 Stainless Steel Door, Add	1,433.79	
			For Embossed Panel, Add	263.07	
			For Galvanized Steel, Add	164.42	
			For Baked Enamel Finish, Add	434.64	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-68.03	
			For >100, Deduct	-99.84	
			For 2" Thick Door, Add	83.88	
			For Insulated Door (Polystyrene Core), Add	109.61	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	274.03	
			For Seamless Edge (Welded), Add	137.02	
			For Steel Stiffened, Add	274.03	
08 13 13 13-0160	PR		Pair 3' x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,308.71	103.09
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	330.76	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	441.02	
			For Composite Door Instead Of Full Panel Door, Add	49.61	
			For Type 304 Stainless Steel Door, Add	892.34	
			For Type 316 Stainless Steel Door, Add	1,443.61	
			For Embossed Panel, Add	264.61	
			For Galvanized Steel, Add	165.38	
			For Baked Enamel Finish, Add	454.46	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-70.59	
			For >100, Deduct	-103.31	
			For 2" Thick Door, Add	85.09	
			For Insulated Door (Polystyrene Core), Add	110.25	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	275.64	
			For Seamless Edge (Welded), Add	137.82	
			For Steel Stiffened, Add	275.64	
08 13 13 13-0161	PR		Pair 3'-6" x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,432.68	107.38
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	365.38	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	487.17	
			For Composite Door Instead Of Full Panel Door, Add	54.81	
			For Type 304 Stainless Steel Door, Add	985.07	
			For Type 316 Stainless Steel Door, Add	1,594.03	
			For Embossed Panel, Add	292.30	
			For Galvanized Steel, Add	182.69	
			For Baked Enamel Finish, Add	494.23	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-77.00	
			For >100, Deduct	-112.82	
			For 2" Thick Door, Add	93.67	
			For Insulated Door (Polystyrene Core), Add	121.79	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	304.48	
			For Seamless Edge (Welded), Add	152.24	
			For Steel Stiffened, Add	304.48	
08 13 13 13-0162	PR		Pair 4' x 7'-2" x 1-3/4" 16 Gauge Metal Door (Unrated)	1,578.07	115.97
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	403.84	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	538.45	
			For Composite Door Instead Of Full Panel Door, Add	60.58	
			For Type 304 Stainless Steel Door, Add	1,088.49	
			For Type 316 Stainless Steel Door, Add	1,761.55	
			For Embossed Panel, Add	323.07	
			For Galvanized Steel, Add	201.92	
			For Baked Enamel Finish, Add	543.01	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-84.70	
			For >100, Deduct	-124.15	
			For 2" Thick Door, Add	103.39	
			For Insulated Door (Polystyrene Core), Add	134.61	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	336.53	
			For Seamless Edge (Welded), Add	168.27	
			For Steel Stiffened, Add	336.53	

08 13 13 13-0163 8' High (08 13 13 13-0114)



Openings		08	08
Doors And Frames		08 10	
Metal Doors		08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0164	EA		2" x 8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	723.88	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	187.32	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	249.76	
			For Up To 1' Extra Height, Add	172.77	
			For Composite Door Instead Of Full Panel Door, Add	28.10	
			For Type 304 Stainless Steel Door, Add	504.50	
			For Type 316 Stainless Steel Door, Add	816.71	
			For Embossed Panel, Add	149.86	
			For Galvanized Steel, Add	93.66	
			For Baked Enamel Finish, Add	247.01	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-38.68	
			For >100, Deduct	-56.78	
			For 2" Thick Door, Add	47.76	
			For Insulated Door (Polystyrene Core), Add	62.44	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	156.10	
			For Seamless Edge (Welded), Add	78.05	
			For Steel Stiffened, Add	156.10	
08 13 13 13-0165	EA		2'-4" x 8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	723.88	49.73
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	187.32	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	249.76	
			For Up To 1' Extra Height, Add	172.77	
			For Composite Door Instead Of Full Panel Door, Add	28.10	
			For Type 304 Stainless Steel Door, Add	504.50	
			For Type 316 Stainless Steel Door, Add	816.71	
			For Embossed Panel, Add	149.86	
			For Galvanized Steel, Add	93.66	
			For Baked Enamel Finish, Add	247.01	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-38.68	
			For >100, Deduct	-56.78	
			For 2" Thick Door, Add	47.76	
			For Insulated Door (Polystyrene Core), Add	62.44	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	156.10	
			For Seamless Edge (Welded), Add	78.05	
			For Steel Stiffened, Add	156.10	
08 13 13 13-0166	EA		2'-6" x 8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	741.17	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	191.15	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	254.87	
			For Up To 1' Extra Height, Add	176.31	
			For Composite Door Instead Of Full Panel Door, Add	28.67	
			For Type 304 Stainless Steel Door, Add	514.94	
			For Type 316 Stainless Steel Door, Add	833.53	
			For Embossed Panel, Add	152.92	
			For Galvanized Steel, Add	95.58	
			For Baked Enamel Finish, Add	253.55	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-39.66	
			For >100, Deduct	-58.19	
			For 2" Thick Door, Add	48.80	
			For Insulated Door (Polystyrene Core), Add	63.72	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	159.30	
			For Seamless Edge (Welded), Add	79.65	
			For Steel Stiffened, Add	159.30	
08 13 13 13-0167	EA		2'-8" x 8" x 1-3/4" 16 Gauge Metal Door (Unrated).....	750.68	52.00
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	194.01	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	258.68	
			For Up To 1' Extra Height, Add	178.94	
			For Composite Door Instead Of Full Panel Door, Add	29.10	
			For Type 304 Stainless Steel Door, Add	522.55	
			For Type 316 Stainless Steel Door, Add	845.90	
			For Embossed Panel, Add	155.21	
			For Galvanized Steel, Add	97.00	
			For Baked Enamel Finish, Add	256.40	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-40.13	
			For >100, Deduct	-58.90	
			For 2" Thick Door, Add	49.48	
			For Insulated Door (Polystyrene Core), Add	64.67	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	161.67	
			For Seamless Edge (Welded), Add	80.84	
			For Steel Stiffened, Add	161.67	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0168	EA		2'-10" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated).....	756.75	53.12
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	195.15	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	260.20	
			For Up To 1' Extra Height, Add	179.99	
			For Composite Door Instead Of Full Panel Door, Add	29.27	
			For Type 304 Stainless Steel Door, Add	525.71	
			For Type 316 Stainless Steel Door, Add	850.95	
			For Embossed Panel, Add	156.12	
			For Galvanized Steel, Add	97.57	
			For Baked Enamel Finish, Add	258.90	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-40.49	
			For >100, Deduct	-59.41	
			For 2" Thick Door, Add	49.82	
			For Insulated Door (Polystyrene Core), Add	65.05	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	162.62	
			For Seamless Edge (Welded), Add	81.31	
			For Steel Stiffened, Add	162.62	
08 13 13 13-0169	EA		3' x 8' x 1-3/4" 16 Gauge Metal Door (Unrated).....	762.80	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	196.29	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	261.72	
			For Up To 1' Extra Height, Add	181.04	
			For Composite Door Instead Of Full Panel Door, Add	29.44	
			For Type 304 Stainless Steel Door, Add	528.86	
			For Type 316 Stainless Steel Door, Add	856.00	
			For Embossed Panel, Add	157.03	
			For Galvanized Steel, Add	98.14	
			For Baked Enamel Finish, Add	261.39	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-40.85	
			For >100, Deduct	-59.92	
			For 2" Thick Door, Add	50.15	
			For Insulated Door (Polystyrene Core), Add	65.43	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	163.57	
			For Seamless Edge (Welded), Add	81.79	
			For Steel Stiffened, Add	163.57	
08 13 13 13-0170	EA		3'-4" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated).....	812.26	54.26
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	211.13	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	281.50	
			For Up To 1' Extra Height, Add	194.73	
			For Composite Door Instead Of Full Panel Door, Add	31.67	
			For Type 304 Stainless Steel Door, Add	568.43	
			For Type 316 Stainless Steel Door, Add	920.30	
			For Embossed Panel, Add	168.90	
			For Galvanized Steel, Add	105.56	
			For Baked Enamel Finish, Add	276.23	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-43.33	
			For >100, Deduct	-63.63	
			For 2" Thick Door, Add	53.73	
			For Insulated Door (Polystyrene Core), Add	70.38	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	175.94	
			For Seamless Edge (Welded), Add	87.97	
			For Steel Stiffened, Add	175.94	



		Openings	08	08
		Doors And Frames	08 10	
		Metal Doors	08 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0171	EA		3'-6" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated).....	835.81	56.51
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	216.83	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	289.11	
			For Up To 1' Extra Height, Add	199.99	
			For 1' To 1'-6" Extra Height, Add	381.55	
			For Composite Door Instead Of Full Panel Door, Add	32.52	
			For Type 304 Stainless Steel Door, Add	583.87	
			For Type 316 Stainless Steel Door, Add	945.25	
			For Embossed Panel, Add	173.46	
			For Galvanized Steel, Add	108.42	
			For Baked Enamel Finish, Add	284.66	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-44.62	
			For >100, Deduct	-65.51	
			For 2" Thick Door, Add	55.23	
			For Insulated Door (Polystyrene Core), Add	72.28	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	180.69	
			For Seamless Edge (Welded), Add	90.35	
			For Steel Stiffened, Add	180.69	
08 13 13 13-0172	EA		4' x 8' x 1-3/4" 16 Gauge Metal Door (Unrated)	920.93	61.04
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	239.66	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	319.54	
			For Up To 1' Extra Height, Add	221.04	
			For 1' To 1'-6" Extra Height, Add	421.71	
			For Composite Door Instead Of Full Panel Door, Add	35.95	
			For Type 304 Stainless Steel Door, Add	645.18	
			For Type 316 Stainless Steel Door, Add	1,044.61	
			For Embossed Panel, Add	191.72	
			For Galvanized Steel, Add	119.83	
			For Baked Enamel Finish, Add	312.90	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-49.10	
			For >100, Deduct	-72.12	
			For 2" Thick Door, Add	60.97	
			For Insulated Door (Polystyrene Core), Add	79.89	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	199.71	
			For Seamless Edge (Welded), Add	99.86	
			For Steel Stiffened, Add	199.71	
08 13 13 13-0173	PR		Pair 2'-6" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,471.94	98.79
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	382.31	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	509.74	
			For Up To 1' Extra Height, Add	352.62	
			For Composite Door Instead Of Full Panel Door, Add	57.35	
			For Type 304 Stainless Steel Door, Add	1,029.37	
			For Type 316 Stainless Steel Door, Add	1,666.55	
			For Embossed Panel, Add	305.85	
			For Galvanized Steel, Add	191.15	
			For Baked Enamel Finish, Add	500.86	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-78.54	
			For >100, Deduct	-115.34	
			For 2" Thick Door, Add	97.33	
			For Insulated Door (Polystyrene Core), Add	127.44	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	318.59	
			For Seamless Edge (Welded), Add	159.30	
			For Steel Stiffened, Add	318.59	

08 Openings**08 10 Doors And Frames****08 13 Metal Doors**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
08 13 13-0174	PR	Pair 2'-8" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated)	.....	1,490.96	98.79
		For 16 Gauge, Grade III, Extra Heavy Duty, Add		388.01	
		For 14 Gauge, Grade III, Extra Heavy Duty, Add		517.35	
		For Up To 1' Extra Height, Add		357.88	
		For Composite Door Instead Of Full Panel Door, Add		58.20	
		For Type 304 Stainless Steel Door, Add		1,044.58	
		For Type 316 Stainless Steel Door, Add		1,691.27	
		For Embossed Panel, Add		310.41	
		For Galvanized Steel, Add		194.01	
		For Baked Enamel Finish, Add		506.56	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add		27.63	
		For 45 Minutes Rated Door And FM Label, Add		41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add		55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add		93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add		131.50	
		For >50 To 100, Deduct		-79.49	
		For >100, Deduct		-116.76	
		For 2" Thick Door, Add		98.71	
		For Insulated Door (Polystyrene Core), Add		129.34	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add		323.35	
		For Seamless Edge (Welded), Add		161.67	
		For Steel Stiffened, Add		323.35	
08 13 13-0175	PR	Pair 2'-10" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated)	.....	1,477.33	88.17
		For 16 Gauge, Grade III, Extra Heavy Duty, Add		390.30	
		For 14 Gauge, Grade III, Extra Heavy Duty, Add		520.40	
		For Up To 1' Extra Height, Add		359.98	
		For Composite Door Instead Of Full Panel Door, Add		58.54	
		For Type 304 Stainless Steel Door, Add		1,049.61	
		For Type 316 Stainless Steel Door, Add		1,700.10	
		For Embossed Panel, Add		312.24	
		For Galvanized Steel, Add		195.15	
		For Baked Enamel Finish, Add		496.10	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add		27.63	
		For 45 Minutes Rated Door And FM Label, Add		41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add		55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add		93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add		131.50	
		For >50 To 100, Deduct		-78.28	
		For >100, Deduct		-115.21	
		For 2" Thick Door, Add		98.73	
		For Insulated Door (Polystyrene Core), Add		130.10	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add		325.25	
		For Seamless Edge (Welded), Add		162.62	
		For Steel Stiffened, Add		325.25	
08 13 13-0176	PR	Pair 3' x 8' x 1-3/4" 16 Gauge Metal Door (Unrated)	.....	1,514.77	103.09
		For 16 Gauge, Grade III, Extra Heavy Duty, Add		392.58	
		For 14 Gauge, Grade III, Extra Heavy Duty, Add		523.44	
		For Up To 1' Extra Height, Add		362.09	
		For 1' To 1'-6" Extra Height, Add		690.81	
		For Composite Door Instead Of Full Panel Door, Add		58.89	
		For Type 304 Stainless Steel Door, Add		1,057.19	
		For Type 316 Stainless Steel Door, Add		1,711.49	
		For Embossed Panel, Add		314.06	
		For Galvanized Steel, Add		196.29	
		For Baked Enamel Finish, Add		516.28	
		For 20 Minutes To 30 Minutes Rated Door And FM Label, Add		27.63	
		For 45 Minutes Rated Door And FM Label, Add		41.40	
		For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add		55.27	
		For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add		93.38	
		For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add		131.50	
		For >50 To 100, Deduct		-80.89	
		For >100, Deduct		-118.76	
		For 2" Thick Door, Add		100.03	
		For Insulated Door (Polystyrene Core), Add		130.86	
		For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add		327.15	
		For Seamless Edge (Welded), Add		163.58	
		For Steel Stiffened, Add		327.15	



		Openings	08
		Doors And Frames	08 10
		Metal Doors	08 13
			08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0177	PR		Pair 3'-6" x 8' x 1-3/4" 16 Gauge Metal Door (Unrated)	1,660.30	107.38
			For 16 Gauge, Grade III, Extra Heavy Duty, Add	433.66	
			For 14 Gauge, Grade III, Extra Heavy Duty, Add	578.22	
			For Up To 1' Extra Height, Add	399.98	
			For 1' To 1'-6" Extra Height, Add	763.10	
			For Composite Door Instead Of Full Panel Door, Add	65.05	
			For Type 304 Stainless Steel Door, Add	1,167.17	
			For Type 316 Stainless Steel Door, Add	1,889.94	
			For Embossed Panel, Add	346.93	
			For Galvanized Steel, Add	216.83	
			For Baked Enamel Finish, Add	562.52	
			For 20 Minutes To 30 Minutes Rated Door And FM Label, Add	27.63	
			For 45 Minutes Rated Door And FM Label, Add	41.40	
			For 1 Hour To 1-1/2 Hour Rated Door And FM Label, Add	55.27	
			For 2 Hour To 2-1/2 Hour Rated Door And FM Label, Add	93.38	
			For 3 Hour To 3-1/2 Hour Rated Door And FM Label, Add	131.50	
			For >50 To 100, Deduct	-88.38	
			For >100, Deduct	-129.89	
			For 2" Thick Door, Add	110.17	
			For Insulated Door (Polystyrene Core), Add	144.55	
			For Mineral Composite Fire Door Core, 250 Degree Maximum Temperature Rise, Add	361.39	
			For Seamless Edge (Welded), Add	180.69	
			For Steel Stiffened, Add	361.39	
08 13 13 13-0178	PR		Pair 4' x 8' x 1-3/4" 16 Gauge Metal Door (Unrated).....	1,829.65	115.97
			For 1' To 1'-6" Extra Height, Add	843.43	
			For Seamless Edge (Welded), Add	199.71	
			For Steel Stiffened, Add	399.43	
08 13 13 53 Custom Hollow Metal Doors (08 13 13)					
08 13 13 53-0001			Steel 18 Gauge 1-3/4" Unrated Door (08 13 13 53)		
08 13 13 53-0002	EA		2'-2" Or 2'-4" x 6'-9" x 1-3/4" 18 Gauge Steel Door (Unrated) With Semicircular Head	1,339.22	113.04
			For 16 Gauge Door, Add	20.30	
08 13 13 53-0003	EA		2'-6" x 6'-9" x 1-3/4" 18 Gauge Steel Door (Unrated) With Semicircular Head	1,405.10	135.64
			For 16 Gauge Door, Add	20.30	
08 13 73 Sliding Metal Doors (08 13)					
08 13 73 00-0001			Sliding Bypass Mirror Doors (08 13 73)		
			Note: Includes 3.0 mm thick, steel frameless safety backed mirrors with anti-jump rollers and guides.		
08 13 73 00-0002	EA		4' x 6' 8", Sliding Bypass Mirror Doors	294.51	67.82
08 13 73 00-0003	EA		5' x 6' 8", Sliding Bypass Mirror Doors	331.18	72.35
08 13 73 00-0004	EA		6' x 6' 8", Sliding Bypass Mirror Doors	367.85	76.86
08 13 73 00-0005	EA		8' x 6' 8", Sliding Bypass Mirror Doors	432.16	81.39
08 30 Specialty Doors And Frames (08)					
08 31 Access Doors And Panels (08 30)			See CSI section 07 72 33 00-0000 for roof hatches, 23 33 33 00-0000 for duct-mounted access doors.		
08 31 13 Access Doors And Frames (08 31)					
08 31 13 00-0001			Stainless Steel Access Doors (08 31 13)		
08 31 13 00-0002			Fire Rated Stainless Steel Access Doors (08 31 13 00-0001)		
08 31 13 00-0003	EA		12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch	360.08	56.29
08 31 13 00-0004	EA		12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	417.46	59.97
08 31 13 00-0005	EA		18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	485.57	63.43
08 31 13 00-0006	EA		24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	558.64	66.65
08 31 13 00-0007	EA		24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch	571.13	66.99
08 31 13 00-0008	EA		24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch	738.25	69.06
08 31 13 00-0009			Stainless Steel Access Doors (08 31 13 00-0001)		
08 31 13 00-0010	EA		8" x 8" Stainless Steel Access Door With Cam Latch	153.25	43.17
08 31 13 00-0011	EA		12" x 12" Stainless Steel Access Door With Cam Latch	181.12	56.29
08 31 13 00-0012	EA		12" x 18" Stainless Steel Access Door With Cam Latch	251.76	59.97
08 31 13 00-0013	EA		18" x 18" Stainless Steel Access Door With Cam Latch	269.94	63.43
08 31 13 00-0014	EA		24" x 18" Stainless Steel Access Door With Cam Latch	311.27	66.65
08 31 13 00-0015	EA		24" x 24" Stainless Steel Access Door With Cam Latch	352.01	66.99
08 31 13 00-0016			Steel Access Doors (08 31 13)		
			Note: Includes paintable powder coated finish.		
08 31 13 00-0017			Fire Rated Steel Access Doors (08 31 13 00-0016)		
08 31 13 00-0018	EA		12" x 12" Fire Rated Steel Access Door With Cam Latch	207.92	56.63
08 31 13 00-0019	EA		12" x 18" Fire Rated Steel Access Door With Cam Latch	251.77	59.97
08 31 13 00-0020	EA		18" x 18" Fire Rated Steel Access Door With Cam Latch	253.57	63.43
08 31 13 00-0021	EA		24" x 18" Fire Rated Steel Access Door With Cam Latch	296.51	66.99
08 31 13 00-0022	EA		24" x 24" Fire Rated Steel Access Door With Cam Latch	308.25	66.99

08	Openings
08 30	Specialty Doors And Frames
08 31	Access Doors And Panels



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 31 13 00-0023	EA	24" x 36" Fire Rated Steel Access Door With Cam Latch.....	404.20	69.06
08 31 13 00-0024	EA	24" x 48" Fire Rated Steel Access Door With Cam Latch.....	460.82	71.95
08 31 13 00-0025	EA	36" x 36" Fire Rated Steel Access Door With Cam Latch.....	557.97	71.95
08 31 13 00-0026	EA	48" x 48" Fire Rated Steel Access Door With Cam Latch.....	711.92	86.33
08 31 13 00-0027		Steel Access Doors (08 31 13 00-0016)		
08 31 13 00-0028	EA	8" x 8" Steel Access Door With Cam Latch.....	119.96	43.40
08 31 13 00-0029	EA	12" x 12" Steel Access Door With Cam Latch.....	128.36	56.63
08 31 13 00-0030	EA	12" x 18" Steel Access Door With Cam Latch.....	144.84	59.97
08 31 13 00-0031	EA	18" x 18" Steel Access Door With Cam Latch.....	149.90	63.43
08 31 13 00-0032	EA	24" x 18" Steel Access Door With Cam Latch.....	173.27	66.99
08 31 13 00-0033	EA	24" x 24" Steel Access Door With Cam Latch.....	176.51	66.99
08 31 13 00-0034	EA	24" x 36" Steel Access Door With Cam Latch.....	227.47	69.06
08 31 13 00-0035	EA	36" x 36" Steel Access Door With Cam Latch.....	287.24	71.95
08 31 13 00-0036		Steel Recessed Access Doors For Drywall Application (08 31 13)		
		Note: Includes paintable powder coated finish.		
08 31 13 00-0037	EA	8" x 8" Recessed Steel Access Door With Cam Latch.....	158.71	43.17
		For Recessed Doors In Acoustical Tile, Add	23.68	
08 31 13 00-0038	EA	12" x 12" Recessed Steel Access Door With Cam Latch.....	166.83	46.27
		For Recessed Doors In Acoustical Tile, Add	25.85	
08 31 13 00-0039	EA	12" x 18" Recessed Steel Access Door With Cam Latch.....	178.79	48.92
		For Recessed Doors In Acoustical Tile, Add	27.02	
08 31 13 00-0040	EA	18" x 18" Recessed Steel Access Door With Cam Latch.....	205.97	51.80
		For Recessed Doors In Acoustical Tile, Add	26.08	
08 31 13 00-0041	EA	24" x 18" Recessed Steel Access Door With Cam Latch.....	216.84	54.68
		For Recessed Doors In Acoustical Tile, Add	27.63	
08 31 13 00-0042	EA	24" x 24" Recessed Steel Access Door With Cam Latch.....	233.91	54.68
		For Recessed Doors In Acoustical Tile, Add	25.07	
08 31 13 00-0043	EA	24" x 36" Recessed Steel Access Door With Cam Latch.....	292.02	69.06
		For Recessed Doors In Acoustical Tile, Add	32.17	
08 31 13 00-0044	EA	36" x 36" Recessed Steel Access Door With Cam Latch.....	399.15	71.95
		For Recessed Doors In Acoustical Tile, Add	19.27	
08 31 13 00-0045		Steel Crawl Space Doors And Frames (08 31 13)		
		Note: Includes paintable powder coated finish.		
08 31 13 00-0046	EA	4" x 24" Steel Crawl Space Door With Cam Latch.....	185.92	72.86
08 31 13 00-0047	EA	30" x 24" Steel Crawl Space Door With Cam Latch.....	254.11	88.29
08 31 13 00-0048	EA	30" x 30" Steel Crawl Space Door With Cam Latch.....	283.29	95.89
08 33		Coiling Doors And Grilles (08 30)		
08 33 13		Coiling Counter Doors (08 33)		
08 33 13 00-0001		Aluminum Overhead Coiling Counter Shutters (08 33 13)		
		Note: Includes necessary anchors, track and hardware. Includes clear anodized aluminum finish. Excludes steel framing supports.		
08 33 13 00-0002	EA	4' x 4', Aluminum Overhead Coiling Counter Shutters, Manual Lift.....	1,862.69	357.95
		For Steel Doors, Deduct	-35.00	
		For Stainless Steel Doors, Add	78.00	
		For Fire Rated, Add	65.00	
		For Motor Operator (With Safety Reverse), Add	739.49	
08 33 13 00-0003	EA	6' x 4', Aluminum Overhead Coiling Counter Shutters, Manual Lift.....	2,069.26	357.95
		For Steel Doors, Deduct	-71.00	
		For Stainless Steel Doors, Add	130.00	
		For Fire Rated, Add	65.00	
		For Motor Operator (With Safety Reverse), Add	739.49	
08 33 13 00-0004	EA	8' x 4', Aluminum Overhead Coiling Counter Shutters, Manual Lift.....	2,320.95	380.31
		For Steel Doors, Deduct	-115.00	
		For Stainless Steel Doors, Add	225.00	
		For Fire Rated, Add	65.00	
		For Motor Operator (With Safety Reverse), Add	744.00	
08 33 13 00-0005	EA	10' x 4', Aluminum Overhead Coiling Counter Shutters, Manual Lift.....	2,700.54	447.43
		For Steel Doors, Deduct	-142.00	
		For Stainless Steel Doors, Add	315.00	
		For Fire Rated, Add	65.00	
		For Motor Operator (With Safety Reverse), Add	761.30	
08 33 13 00-0006	EA	4' x 6', Aluminum Overhead Coiling Counter Shutters, Manual Lift.....	2,022.08	357.95
		For Steel Doors, Deduct	-40.00	
		For Stainless Steel Doors, Add	85.00	
		For Fire Rated, Add	65.00	
		For Motor Operator (With Safety Reverse), Add	739.49	
08 33 13 00-0007	EA	6' x 6', Aluminum Overhead Coiling Counter Shutters, Manual Lift.....	2,328.08	397.68
		For Steel Doors, Deduct	-80.00	
		For Stainless Steel Doors, Add	145.00	
		For Fire Rated, Add	65.00	
		For Motor Operator (With Safety Reverse), Add	749.43	



Openings			08
Specialty Doors And Frames			08 30
Coiling Doors And Grilles			08 33

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 13 00-0008 EA 10' x 6', Aluminum Overhead Coiling Counter Shutters, Manual Lift..... For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	2,865.50 -156.00 240.00 65.00 761.86	447.43
08 33 13 00-0009 Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters (08 33 13) Note: Includes stainless steel frame and sill, necessary anchors, track and hardware. Includes clear anodized aluminum finish. Excludes steel framing supports.		
08 33 13 00-0010 EA 4' x 4', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	6,149.69 -35.00 78.00 65.00 739.49	357.95
08 33 13 00-0011 EA 6' x 4', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	6,521.77 -71.00 130.00 65.00 739.49	357.95
08 33 13 00-0012 EA 8' x 4', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	6,952.96 -115.00 225.00 65.00 744.00	380.31
08 33 13 00-0013 EA 10' x 4', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	7,536.12 -142.00 315.00 65.00 761.30	447.43
08 33 13 00-0014 EA 4' x 6', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	6,368.23 -40.00 85.00 65.00 739.49	357.95
08 33 13 00-0015 EA 6' x 6', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	6,810.42 -80.00 145.00 65.00 749.43	397.68
08 33 13 00-0016 EA 10' x 6', Integral Frame And Sill, Aluminum Overhead Coiling Counter Shutters, Manual Lift For Steel Doors, Deduct For Stainless Steel Doors, Add For Fire Rated, Add For Motor Operator (With Safety Reverse), Add	7,992.77 -156.00 240.00 65.00 761.86	447.43
08 33 23 Overhead Coiling Doors (08 33)		
08 33 23 00-0001 Galvanized Steel Overhead Coiling Doors (Width x Height) (08 33 23)		
08 33 23 00-0002 26 Gauge Galvanized Steel Overhead Coiling Doors, Storage Unit Style (08 33 23 00-0001)		
08 33 23 00-0003 EA 4' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	708.02	248.67
08 33 23 00-0004 EA 4' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	782.27	271.29
08 33 23 00-0005 EA 5' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	778.88	271.29
08 33 23 00-0006 EA 5' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	857.62	293.89
08 33 23 00-0007 EA 6' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	849.80	293.89
08 33 23 00-0008 EA 6' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	928.15	316.49
08 33 23 00-0009 EA 6' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,019.46	339.11
08 33 23 00-0010 EA 8' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	895.50	293.89
08 33 23 00-0011 EA 8' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	965.04	316.49
08 33 23 00-0012 EA 8' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,045.28	339.11
08 33 23 00-0013 EA 8' x 10', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,158.22	361.71
08 33 23 00-0014 EA 10' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,085.76	361.71
08 33 23 00-0015 EA 10' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,135.93	361.71
08 33 23 00-0016 EA 10' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,248.08	384.31
08 33 23 00-0017 EA 10' x 10', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,327.74	406.93
08 33 23 00-0018 24 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 00-0001) Note: With curtain hood (barrel cover).		
08 33 23 00-0019 EA 8' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift For Insulated, Add	2,188.60 1,244.70	293.89
08 33 23 00-0020 EA 8' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift For Insulated, Add	2,289.15 1,289.59	316.49
08 33 23 00-0021 EA 8' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift For Insulated, Add	2,541.86 1,418.09	361.71
08 33 23 00-0022 EA 8' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift For Insulated, Add	2,710.67 1,544.69	361.71
08 33 23 00-0023 EA 10' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift For Insulated, Add	2,478.73 1,370.74	361.71
08 33 23 00-0024 EA 10' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift For Insulated, Add	2,604.92 1,465.38	361.71

08 Openings**08 30 Specialty Doors And Frames****08 33 Coiling Doors And Grilles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 00-0025 EA 10' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	2,821.44 1,566.79	406.93
08 33 23 00-0026 EA 10' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	3,003.30 1,703.19	406.93
08 33 23 00-0027 EA 12' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	2,734.39 1,501.50	406.93
08 33 23 00-0028 EA 12' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	2,971.10 1,617.94	452.14
08 33 23 00-0029 EA 12' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	3,343.38 1,744.56	565.17
08 33 23 00-0030 EA 12' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	3,609.03 1,943.79	565.17
08 33 23 00-0031 EA 14' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	3,581.36 1,923.04	565.17
08 33 23 00-0032 EA 14' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	3,885.66 2,151.27	565.17
08 33 23 00-0033 EA 14' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	4,208.41 2,393.33	565.17
08 33 23 00-0034 22 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 00-0001) Note: With curtain hood (barrel cover).		
08 33 23 00-0035 EA 4' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	1,921.84 206.90 344.83 1,075.18	271.29
08 33 23 00-0036 EA 4' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,105.05 227.59 379.31 1,182.02	293.89
08 33 23 00-0037 EA 4' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,241.41 241.25 402.09 1,253.74	316.49
08 33 23 00-0038 EA 6' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,121.39 230.04 383.40 1,194.28	293.89
08 33 23 00-0039 EA 6' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,320.01 253.04 421.74 1,312.69	316.49
08 33 23 00-0040 EA 6' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,551.28 274.18 456.97 1,425.15	361.71
08 33 23 00-0041 EA 6' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	3,075.36 339.24 565.40 1,757.22	406.93
08 33 23 00-0042 EA 6' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	3,599.56 404.29 673.82 2,089.29	452.14
08 33 23 00-0043 EA 8' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,283.86 254.41 424.02 1,316.13	293.89
08 33 23 00-0044 EA 8' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,589.07 279.85 466.41 1,453.49	361.71
08 33 23 00-0045 EA 8' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,924.21 302.99 504.99 1,582.78	452.14
08 33 23 00-0046 EA 8' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	3,428.84 365.14 608.57 1,900.29	497.35
08 33 23 00-0047 EA 8' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	3,933.86 427.28 712.14 2,217.81	542.56
08 33 23 00-0048 EA 10' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	2,976.80 307.49 512.48 1,606.94	463.44
08 33 23 00-0049 EA 10' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	3,408.78 341.77 569.61 1,793.61	565.17
08 33 23 00-0050 EA 10' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For 20 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For 18 Gauge Galvanized Steel Overhead Coiling Door, Add</i> <i>For Insulated, Add</i>	4,068.18 406.81 678.01 2,135.74	678.20



		Openings	08
		Specialty Doors And Frames	08 30
		Coiling Doors And Grilles	08 33

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 00-0051	EA	10' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	4,773.20	813.85
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	471.85	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	786.41	
		For Insulated, Add	.....	2,481.30	
08 33 23 00-0052	EA	10' x 18', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	5,517.10	994.71
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	529.06	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	881.77	
		For Insulated, Add	.....	2,794.55	
08 33 23 00-0053	EA	10' x 20', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	6,078.03	1,085.13
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	586.27	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	977.12	
		For Insulated, Add	.....	3,094.07	
08 33 23 00-0054	EA	10' x 22', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	6,639.86	1,175.56
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	643.48	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,072.47	
		For Insulated, Add	.....	3,393.66	
08 33 23 00-0055	EA	10' x 24', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	7,201.23	1,265.98
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	700.45	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,167.42	
		For Insulated, Add	.....	3,692.12	
08 33 23 00-0056	EA	12' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	3,379.07	542.56
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	344.06	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	573.44	
		For Insulated, Add	.....	1,801.72	
08 33 23 00-0057	EA	12' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	3,886.94	678.20
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	379.62	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	632.70	
		For Insulated, Add	.....	1,999.81	
08 33 23 00-0058	EA	12' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	4,641.85	768.63
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	465.75	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	776.25	
		For Insulated, Add	.....	2,444.02	
08 33 23 00-0059	EA	12' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	5,487.76	904.27
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	551.88	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	919.80	
		For Insulated, Add	.....	2,895.05	
08 33 23 00-0060	EA	12' x 18', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	6,343.29	1,085.13
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	626.06	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,043.43	
		For Insulated, Add	.....	3,293.01	
08 33 23 00-0061	EA	12' x 20', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	7,018.23	1,175.56
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	700.24	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,167.06	
		For Insulated, Add	.....	3,677.44	
08 33 23 00-0062	EA	12' x 22', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	7,785.38	1,311.20
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	774.42	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,290.69	
		For Insulated, Add	.....	4,068.77	
08 33 23 00-0063	EA	12' x 24', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	8,551.88	1,446.84
		For 20 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	848.59	
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,414.32	
		For Insulated, Add	.....	4,460.05	
08 33 23 00-0064 20 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 00-0001)					
Note: With curtain hood (barrel cover)					
08 33 23 00-0065	EA	14' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	4,287.46	678.20
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	439.70	
		For Insulated, Add	.....	2,300.20	
08 33 23 00-0066	EA	14' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	4,866.17	768.63
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	499.40	
		For Insulated, Add	.....	2,612.26	
08 33 23 00-0067	EA	14' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	5,551.05	859.06
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	574.98	
		For Insulated, Add	.....	3,003.74	
08 33 23 00-0068	EA	14' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	6,170.63	949.49
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	640.64	
		For Insulated, Add	.....	3,345.65	
08 33 23 00-0069	EA	14' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	7,005.44	1,130.34
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	711.71	
		For Insulated, Add	.....	3,728.11	
08 33 23 00-0070	EA	14' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	7,659.28	1,220.78
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	782.69	
		For Insulated, Add	.....	4,096.55	
08 33 23 00-0071	EA	14' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	9,120.10	1,356.41
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	960.93	
		For Insulated, Add	.....	5,008.18	
08 33 23 00-0072	EA	14' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	10,576.88	1,492.05
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	1,139.17	
		For Insulated, Add	.....	5,919.51	
08 33 23 00-0073	EA	16' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	5,293.49	813.85
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	549.89	
		For Insulated, Add	.....	2,871.51	
08 33 23 00-0074	EA	16' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	.....	5,943.68	904.27
		For 18 Gauge Galvanized Steel Overhead Coiling Door, Add	.....	620.27	
		For Insulated, Add	.....	3,236.99	

08	Openings
08 30	Specialty Doors And Frames
08 33	Coiling Doors And Grilles



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 00-0075	EA	16' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	6,619.67 680.99 3,560.92	1,039.91
08 33 23 00-0076	EA	16' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	7,313.33 744.50 3,898.76	1,175.56
08 33 23 00-0077	EA	16' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	7,972.00 816.07 4,270.20	1,265.98
08 33 23 00-0078	EA	16' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	8,732.87 902.84 4,717.76	1,356.41
08 33 23 00-0079	EA	16' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	9,854.28 1,043.95 5,436.85	1,446.84
08 33 23 00-0080	EA	16' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	10,985.93 1,186.52 6,163.30	1,537.27
08 33 23 00-0081	EA	18' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	5,828.65 575.79 3,028.21	994.71
08 33 23 00-0082	EA	18' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	6,415.56 636.90 3,347.22	1,085.13
08 33 23 00-0083	EA	18' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	7,349.15 736.17 3,863.95	1,220.78
08 33 23 00-0084	EA	18' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	8,158.84 816.74 4,287.23	1,356.41
08 33 23 00-0085	EA	18' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	8,881.65 898.06 4,707.38	1,446.84
08 33 23 00-0086	EA	18' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	9,605.58 979.47 5,128.04	1,537.27
08 33 23 00-0087	EA	18' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	10,909.63 1,147.82 5,983.42	1,627.69
08 33 23 00-0088	EA	18' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	12,239.86 1,320.63 6,860.80	1,718.12
08 33 23 00-0089	EA	20' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	6,535.37 654.87 3,437.07	1,085.13
08 33 23 00-0090	EA	20' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For 18 Gauge Galvanized Steel Overhead Coiling Door, Add For Insulated, Add	7,601.62 787.75 4,114.98	1,175.56
08 33 23 00-0091 18 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 00-0001)				
Note: With curtain hood (barrel cover).				
08 33 23 00-0092	EA	20' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	9,011.94 4,988.69	1,311.20
08 33 23 00-0093	EA	20' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	10,185.11 5,745.58	1,401.63
08 33 23 00-0094	EA	20' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	11,531.54 6,632.85	1,492.05
08 33 23 00-0095	EA	20' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	13,041.36 7,643.81	1,582.49
08 33 23 00-0096	EA	20' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	14,557.08 8,660.46	1,672.91
08 33 23 00-0097	EA	20' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	16,104.70 9,697.93	1,763.34
08 33 23 00-0098	EA	22' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	7,296.89 3,886.43	1,175.56
08 33 23 00-0099	EA	22' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	8,529.94 4,688.65	1,265.98
08 33 23 00-0100	EA	22' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	10,042.86 5,638.89	1,401.63
08 33 23 00-0101	EA	22' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	11,571.69 6,665.62	1,492.05
08 33 23 00-0102	EA	22' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	13,111.90 7,696.72	1,582.49
08 33 23 00-0103	EA	22' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	14,810.78 8,850.74	1,672.91
08 33 23 00-0104	EA	22' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	16,519.70 10,009.18	1,763.34
08 33 23 00-0105	EA	22' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	18,214.29 11,159.13	1,853.76
08 33 23 00-0106	EA	24' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	7,994.37 4,286.97	1,265.98
08 33 23 00-0107	EA	24' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... For Insulated, Add	8,895.51 4,839.74	1,356.41



		Openings	08
		Specialty Doors And Frames	08 30
		Coiling Doors And Grilles	08 33

08

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
08 33 23 00-0108	EA 24' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	10,877.98		1,492.05
	For Insulated, Add	6,145.34		
08 33 23 00-0109	EA 24' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	12,592.48		1,582.49
	For Insulated, Add	7,307.15		
08 33 23 00-0110	EA 24' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	14,233.84		1,672.91
	For Insulated, Add	8,418.03		
08 33 23 00-0111	EA 24' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	16,043.03		1,763.34
	For Insulated, Add	9,651.68		
08 33 23 00-0112	EA 24' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	18,152.69		1,853.76
	For Insulated, Add	11,112.93		
08 33 23 00-0113	EA 24' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	20,323.18		1,944.19
	For Insulated, Add	12,615.94		
08 33 23 00-0114	Aluminum Overhead Coiling Doors (Width x Height) (08 33 23)			
08 33 23 00-0115	0.04" Aluminum Overhead Coiling Doors (08 33 23 00-0114)			
08 33 23 00-0116	EA 4' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift	1,530.90		271.29
08 33 23 00-0117	EA 4' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	1,673.08		293.89
08 33 23 00-0118	EA 4' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,079.92		316.49
08 33 23 00-0119	EA 6' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift	1,868.91		293.89
08 33 23 00-0120	EA 6' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,034.06		316.49
08 33 23 00-0121	EA 6' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,244.33		361.71
08 33 23 00-0122	EA 6' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,490.56		406.93
08 33 23 00-0123	EA 6' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,739.54		452.14
08 33 23 00-0124	EA 8' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,016.88		293.89
08 33 23 00-0125	EA 8' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,314.77		361.71
08 33 23 00-0126	EA 8' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,660.42		452.14
08 33 23 00-0127	EA 8' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,906.78		497.35
08 33 23 00-0128	EA 8' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,154.41		542.56
08 33 23 00-0129	EA 10' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,718.34		474.74
08 33 23 00-0130	EA 10' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,060.27		565.17
08 33 23 00-0131	EA 10' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,484.72		678.20
08 33 23 00-0132	EA 10' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,955.90		813.85
08 33 23 00-0133	EA 10' x 18', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,659.98		994.71
08 33 23 00-0134	EA 10' x 20', 0.04" Aluminum Overhead Coiling Door, Chain Lift	5,181.01		1,085.13
08 33 23 00-0135	EA 10' x 22', 0.04" Aluminum Overhead Coiling Door, Chain Lift	5,699.68		1,175.56
08 33 23 00-0136	EA 10' x 24', 0.04" Aluminum Overhead Coiling Door, Chain Lift	6,220.47		1,265.98
08 33 23 00-0137	EA 12' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,011.20		542.56
08 33 23 00-0138	EA 12' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,671.07		678.20
08 33 23 00-0139	EA 12' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,154.97		768.63
08 33 23 00-0140	EA 12' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,731.70		904.27
08 33 23 00-0141	EA 12' x 18', 0.04" Aluminum Overhead Coiling Door, Chain Lift	5,505.89		1,085.13
08 33 23 00-0142	EA 12' x 20', 0.04" Aluminum Overhead Coiling Door, Chain Lift	6,101.05		1,175.56
08 33 23 00-0143	EA 12' x 22', 0.04" Aluminum Overhead Coiling Door, Chain Lift	6,560.18		1,311.20
08 33 23 00-0144	EA 12' x 24', 0.04" Aluminum Overhead Coiling Door, Chain Lift	7,020.78		1,446.84
08 33 23 00-0145	0.05" Aluminum Overhead Coiling Doors (08 33 23 00-0114)			
08 33 23 00-0146	EA 14' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	3,520.87		678.20
08 33 23 00-0147	EA 14' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	4,134.51		768.63
08 33 23 00-0148	EA 14' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	4,738.24		859.06
08 33 23 00-0149	EA 14' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,301.81		949.49
08 33 23 00-0150	EA 14' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,077.80		1,130.34
08 33 23 00-0151	EA 14' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,673.46		1,220.78
08 33 23 00-0152	EA 14' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,370.01		1,356.41
08 33 23 00-0153	EA 14' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,062.61		1,492.05
08 33 23 00-0154	EA 16' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	4,182.98		813.85
08 33 23 00-0155	EA 16' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	4,821.25		904.27
08 33 23 00-0156	EA 16' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,526.67		1,039.91
08 33 23 00-0157	EA 16' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,247.78		1,175.56
08 33 23 00-0158	EA 16' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,926.36		1,265.98
08 33 23 00-0159	EA 16' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,644.13		1,356.41
08 33 23 00-0160	EA 16' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,329.48		1,446.84
08 33 23 00-0161	EA 16' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,975.61		1,537.27
08 33 23 00-0162	EA 18' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	4,828.53		994.71
08 33 23 00-0163	EA 18' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,505.04		1,085.13
08 33 23 00-0164	EA 18' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,331.96		1,220.78
08 33 23 00-0165	EA 18' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,149.69		1,356.41
08 33 23 00-0166	EA 18' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,883.73		1,446.84
08 33 23 00-0167	EA 18' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,613.13		1,537.27
08 33 23 00-0168	EA 18' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,341.79		1,627.69
08 33 23 00-0169	EA 18' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,072.06		1,718.12
08 33 23 00-0170	EA 20' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,392.32		1,085.13
08 33 23 00-0171	EA 20' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,081.26		1,175.56
08 33 23 00-0172	EA 20' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,203.12		1,311.20
08 33 23 00-0173	EA 20' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,887.47		1,401.63
08 33 23 00-0174	EA 20' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,687.61		1,492.05
08 33 23 00-0175	EA 20' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,516.97		1,582.49
08 33 23 00-0176	EA 20' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,299.53		1,672.91
08 33 23 00-0177	EA 20' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,113.62		1,763.34
08 33 23 00-0178	EA 22' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,145.31		1,175.56

08	Openings
08 30	Specialty Doors And Frames
08 33	Coiling Doors And Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 00-0179 EA 22' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,977.58	1,265.98
08 33 23 00-0180 EA 22' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,993.78	1,401.63
08 33 23 00-0181 EA 22' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,897.66	1,492.05
08 33 23 00-0182 EA 22' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,806.46	1,582.49
08 33 23 00-0183 EA 22' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,718.39	1,672.91
08 33 23 00-0184 EA 22' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,586.27	1,763.34
08 33 23 00-0185 EA 22' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	12,457.19	1,853.76
08 33 23 00-0186 EA 24' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,722.68	1,265.98
08 33 23 00-0187 EA 24' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,295.71	1,356.41
08 33 23 00-0188 EA 24' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,642.77	1,492.05
08 33 23 00-0189 EA 24' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,657.85	1,582.49
08 33 23 00-0190 EA 24' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,614.64	1,672.91
08 33 23 00-0191 EA 24' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,576.03	1,763.34
08 33 23 00-0192 EA 24' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	12,667.26	1,853.76
08 33 23 00-0193 EA 24' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	13,802.69	1,944.19

08 33 23 00-0194 Removal And Reinstallation Of Roll-Up Door And Support (08 33 23)

Note: Includes storage, cleaning and supply materials.

08 33 23 00-0195 SF Removal And Reinstallation Of Metal Roll-up Door And Supports.....	19.27	
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08 33 23 00-0196 Overhead Coiling Door Accessories (08 33 23)

08 33 23 00-0197 LF Bottom Of Door, Weather Strip Seal For Coiling Doors, Astragal Only.....	3.10	1.13
08 33 23 00-0198 LF Top Of Door (Lintel), Weather Strip Seal For Coiling Doors	18.07	1.36
08 33 23 00-0199 LF Side Of Door (Guides), Weather Strip Seal For Coiling Doors.....	17.28	1.36
08 33 23 00-0200 EA Cylinder Lock For Coiling Doors	193.94	56.51
08 33 23 00-0201 EA Jackshaft Operator For Coiling Doors.....	1,171.49	180.85
Note: Includes three button inside station controls and mounting hardware.		
08 33 23 00-0202 EA Remote Transmitter Kit For Coiling Door Operators	264.05	90.43

08 33 26 Overhead Coiling Grilles (08 33)

Note: Includes curtains, guides, counterbalance mechanisms, hardware, operators, frame, supports and/or trim as required.

08 33 26 00-0001 Steel Overhead Coiling Grilles (Width x Height) (08 33 26)

08 33 26 00-0002 EA 4' x 4', Steel Overhead Coiling Grilles, Manual Lift	2,241.38	156.60
For Staggered Brick Pattern, Add	44.85	
For Lexan Lattice Pattern, Add	269.09	
For Aluminum With Clear Or Anodized Bronze Finish, Add	84.26	
For Staggered Brick Pattern, Add	150.01	
08 33 26 00-0003 EA 6' x 4', Steel Overhead Coiling Grilles, Manual Lift	2,470.80	156.60
For Staggered Brick Pattern, Add	50.58	
For Lexan Lattice Pattern, Add	303.51	
For Aluminum With Clear Or Anodized Bronze Finish, Add	115.95	
For Staggered Brick Pattern, Add	203.51	
08 33 26 00-0004 EA 8' x 4', Steel Overhead Coiling Grilles, Manual Lift	2,851.52	208.77
For Staggered Brick Pattern, Add	56.37	
For Lexan Lattice Pattern, Add	338.24	
For Aluminum With Clear Or Anodized Bronze Finish, Add	147.66	
For Staggered Brick Pattern, Add	257.01	
08 33 26 00-0005 EA 12' x 4', Steel Overhead Coiling Grilles, Manual Lift	3,403.65	208.77
For Staggered Brick Pattern, Add	70.18	
For Lexan Lattice Pattern, Add	421.06	
For Aluminum With Clear Or Anodized Bronze Finish, Add	211.04	
For Staggered Brick Pattern, Add	364.00	
08 33 26 00-0006 EA 16' x 4', Steel Overhead Coiling Grilles, Manual Lift	4,606.46	313.21
For Staggered Brick Pattern, Add	92.79	
For Lexan Lattice Pattern, Add	556.74	
For Aluminum With Clear Or Anodized Bronze Finish, Add	316.16	
For Staggered Brick Pattern, Add	479.98	
08 33 26 00-0007 EA 20' x 4', Steel Overhead Coiling Grilles, Manual Lift	5,809.27	417.46
For Staggered Brick Pattern, Add	115.40	
For Lexan Lattice Pattern, Add	692.42	
For Aluminum With Clear Or Anodized Bronze Finish, Add	421.28	
For Staggered Brick Pattern, Add	595.96	
08 33 26 00-0008 EA 24' x 4', Steel Overhead Coiling Grilles, Manual Lift	7,252.58	501.13
For Staggered Brick Pattern, Add	145.46	
For Lexan Lattice Pattern, Add	872.77	
For Aluminum With Clear Or Anodized Bronze Finish, Add	505.54	
For Staggered Brick Pattern, Add	616.25	
08 33 26 00-0009 EA 30' x 4', Steel Overhead Coiling Grilles, Manual Lift	8,901.83	626.41
For Staggered Brick Pattern, Add	177.80	
For Lexan Lattice Pattern, Add	1,066.81	
For Aluminum With Clear Or Anodized Bronze Finish, Add	591.71	
For Staggered Brick Pattern, Add	707.39	
08 33 26 00-0010 EA 4' x 6', Steel Overhead Coiling Grilles, Manual Lift	2,416.51	156.60
For Staggered Brick Pattern, Add	49.23	
For Lexan Lattice Pattern, Add	295.36	
For Aluminum With Clear Or Anodized Bronze Finish, Add	126.38	
For Staggered Brick Pattern, Add	174.29	



		Openings	08	08
		Specialty Doors And Frames	08 30	
		Coiling Doors And Grilles	08 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 26 00-0011 EA 6' x 6', Steel Overhead Coiling Grilles, Manual Lift	2,746.02	156.60
For Staggered Brick Pattern, Add	57.46	
For Lexan Lattice Pattern, Add	344.79	
For Aluminum With Clear Or Anodized Bronze Finish, Add	189.55	
For Staggered Brick Pattern, Add	237.03	
08 33 26 00-0012 EA 8' x 6', Steel Overhead Coiling Grilles, Manual Lift	3,089.54	208.86
For Staggered Brick Pattern, Add	62.32	
For Lexan Lattice Pattern, Add	373.94	
For Aluminum With Clear Or Anodized Bronze Finish, Add	252.72	
For Staggered Brick Pattern, Add	299.78	
08 33 26 00-0013 EA 12' x 6', Steel Overhead Coiling Grilles, Manual Lift	3,725.70	208.86
For Staggered Brick Pattern, Add	78.23	
For Lexan Lattice Pattern, Add	469.37	
For Aluminum With Clear Or Anodized Bronze Finish, Add	379.15	
For Staggered Brick Pattern, Add	425.26	
08 33 26 00-0014 EA 16' x 6', Steel Overhead Coiling Grilles, Manual Lift	5,058.18	313.21
For Staggered Brick Pattern, Add	104.08	
For Lexan Lattice Pattern, Add	624.50	
For Aluminum With Clear Or Anodized Bronze Finish, Add	505.54	
For Staggered Brick Pattern, Add	585.43	
08 33 26 00-0015 EA 20' x 6', Steel Overhead Coiling Grilles, Manual Lift	6,387.47	417.46
For Staggered Brick Pattern, Add	129.94	
For Lexan Lattice Pattern, Add	779.62	
For Aluminum With Clear Or Anodized Bronze Finish, Add	631.93	
For Staggered Brick Pattern, Add	745.60	
08 33 26 00-0016 EA 24' x 6', Steel Overhead Coiling Grilles, Manual Lift	8,005.98	501.13
For Staggered Brick Pattern, Add	164.30	
For Lexan Lattice Pattern, Add	985.78	
For Aluminum With Clear Or Anodized Bronze Finish, Add	758.30	
For Staggered Brick Pattern, Add	859.52	
08 33 26 00-0017 EA 30' x 6', Steel Overhead Coiling Grilles, Manual Lift	9,652.21	626.41
For Staggered Brick Pattern, Add	196.56	
For Lexan Lattice Pattern, Add	1,179.37	
For Aluminum With Clear Or Anodized Bronze Finish, Add	882.87	
For Staggered Brick Pattern, Add	963.58	
08 33 26 00-0018 EA 4' x 8', Steel Overhead Coiling Grilles, Manual Lift	2,767.54	187.92
For Staggered Brick Pattern, Add	55.78	
For Lexan Lattice Pattern, Add	334.66	
For Aluminum With Clear Or Anodized Bronze Finish, Add	168.51	
For Staggered Brick Pattern, Add	228.11	
08 33 26 00-0019 EA 6' x 8', Steel Overhead Coiling Grilles, Manual Lift	3,165.62	187.92
For Staggered Brick Pattern, Add	65.73	
For Lexan Lattice Pattern, Add	394.37	
For Aluminum With Clear Or Anodized Bronze Finish, Add	252.78	
For Staggered Brick Pattern, Add	308.93	
08 33 26 00-0020 EA 8' x 8', Steel Overhead Coiling Grilles, Manual Lift	3,799.23	234.90
For Staggered Brick Pattern, Add	78.19	
For Lexan Lattice Pattern, Add	469.11	
For Aluminum With Clear Or Anodized Bronze Finish, Add	337.03	
For Staggered Brick Pattern, Add	389.75	
08 33 26 00-0021 EA 12' x 8', Steel Overhead Coiling Grilles, Manual Lift	4,373.33	234.90
For Staggered Brick Pattern, Add	92.54	
For Lexan Lattice Pattern, Add	555.23	
For Aluminum With Clear Or Anodized Bronze Finish, Add	436.11	
For Staggered Brick Pattern, Add	551.39	
08 33 26 00-0022 EA 16' x 8', Steel Overhead Coiling Grilles, Manual Lift	5,958.78	375.85
For Staggered Brick Pattern, Add	122.08	
For Lexan Lattice Pattern, Add	732.48	
For Aluminum With Clear Or Anodized Bronze Finish, Add	674.05	
For Staggered Brick Pattern, Add	777.58	
08 33 26 00-0023 EA 20' x 8', Steel Overhead Coiling Grilles, Manual Lift	7,404.55	469.81
For Staggered Brick Pattern, Add	151.62	
For Lexan Lattice Pattern, Add	909.74	
For Aluminum With Clear Or Anodized Bronze Finish, Add	842.56	
For Staggered Brick Pattern, Add	1,003.76	
08 33 26 00-0024 EA 24' x 8', Steel Overhead Coiling Grilles, Manual Lift	9,365.96	563.77
For Staggered Brick Pattern, Add	193.91	
For Lexan Lattice Pattern, Add	1,163.47	
For Aluminum With Clear Or Anodized Bronze Finish, Add	1,011.08	
For Staggered Brick Pattern, Add	1,129.11	
08 33 26 00-0025 EA 30' x 8', Steel Overhead Coiling Grilles, Manual Lift	11,418.78	689.04
For Staggered Brick Pattern, Add	236.41	
For Lexan Lattice Pattern, Add	1,418.45	
For Aluminum With Clear Or Anodized Bronze Finish, Add	1,171.06	
For Staggered Brick Pattern, Add	1,231.44	
08 33 26 00-0026 EA 4' x 10', Steel Overhead Coiling Grilles, Manual Lift	3,056.07	187.92
For Staggered Brick Pattern, Add	62.99	
For Lexan Lattice Pattern, Add	377.94	
For Aluminum With Clear Or Anodized Bronze Finish, Add	210.64	
For Staggered Brick Pattern, Add	271.00	
08 33 26 00-0027 EA 6' x 10', Steel Overhead Coiling Grilles, Manual Lift	3,583.66	187.92
For Staggered Brick Pattern, Add	76.18	
For Lexan Lattice Pattern, Add	457.07	
For Aluminum With Clear Or Anodized Bronze Finish, Add	315.95	
For Staggered Brick Pattern, Add	384.83	

08 Openings
08 30 Specialty Doors And Frames
08 33 Coiling Doors And Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 26 00-0028	EA		8' x 10', Steel Overhead Coiling Grilles, Manual Lift	4,263.51	234.90
			For Staggered Brick Pattern, Add	89.84	
			For Lexan Lattice Pattern, Add	539.05	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	421.29	
			For Staggered Brick Pattern, Add	498.66	
08 33 26 00-0029	EA		12' x 10', Steel Overhead Coiling Grilles, Manual Lift	4,982.49	234.90
			For Staggered Brick Pattern, Add	107.82	
			For Lexan Lattice Pattern, Add	646.90	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	631.93	
			For Staggered Brick Pattern, Add	726.33	
08 33 26 00-0030	EA		16' x 10', Steel Overhead Coiling Grilles, Manual Lift	6,757.88	375.85
			For Staggered Brick Pattern, Add	142.06	
			For Lexan Lattice Pattern, Add	852.35	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	842.56	
			For Staggered Brick Pattern, Add	1,001.51	
08 33 26 00-0031	EA		20' x 10', Steel Overhead Coiling Grilles, Manual Lift	8,391.55	469.81
			For Staggered Brick Pattern, Add	176.30	
			For Lexan Lattice Pattern, Add	1,057.79	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,053.20	
			For Staggered Brick Pattern, Add	1,276.68	
08 33 26 00-0032	EA		24' x 10', Steel Overhead Coiling Grilles, Manual Lift	10,558.46	563.77
			For Staggered Brick Pattern, Add	223.72	
			For Lexan Lattice Pattern, Add	1,342.35	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,264.00	
			For Staggered Brick Pattern, Add	1,478.50	
08 33 26 00-0033	EA		30' x 10', Steel Overhead Coiling Grilles, Manual Lift	13,260.13	689.04
			For Staggered Brick Pattern, Add	282.44	
			For Lexan Lattice Pattern, Add	1,694.66	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,479.96	
			For Staggered Brick Pattern, Add	1,656.25	
08 33 26 00-0034	EA		4' x 12', Steel Overhead Coiling Grilles, Manual Lift	3,386.49	187.92
			For Staggered Brick Pattern, Add	71.25	
			For Lexan Lattice Pattern, Add	427.50	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	252.78	
			For Staggered Brick Pattern, Add	313.26	
08 33 26 00-0035	EA		6' x 12', Steel Overhead Coiling Grilles, Manual Lift	3,482.13	187.92
			For Staggered Brick Pattern, Add	73.64	
			For Lexan Lattice Pattern, Add	441.84	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	379.15	
			For Staggered Brick Pattern, Add	459.46	
08 33 26 00-0036	EA		8' x 12', Steel Overhead Coiling Grilles, Manual Lift	4,233.58	234.90
			For Staggered Brick Pattern, Add	89.04	
			For Lexan Lattice Pattern, Add	534.26	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	505.53	
			For Staggered Brick Pattern, Add	605.66	
08 33 26 00-0037	EA		12' x 12', Steel Overhead Coiling Grilles, Manual Lift	5,671.31	234.90
			For Staggered Brick Pattern, Add	124.99	
			For Lexan Lattice Pattern, Add	749.92	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	758.28	
			For Staggered Brick Pattern, Add	898.06	
08 33 26 00-0038	EA		16' x 12', Steel Overhead Coiling Grilles, Manual Lift	7,887.49	375.85
			For Staggered Brick Pattern, Add	170.30	
			For Lexan Lattice Pattern, Add	1,021.79	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,011.07	
			For Staggered Brick Pattern, Add	1,248.56	
08 33 26 00-0039	EA		20' x 12', Steel Overhead Coiling Grilles, Manual Lift	9,963.98	469.81
			For Staggered Brick Pattern, Add	215.61	
			For Lexan Lattice Pattern, Add	1,293.65	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,263.84	
			For Staggered Brick Pattern, Add	1,599.06	
08 33 26 00-0040	EA		24' x 12', Steel Overhead Coiling Grilles, Manual Lift	12,086.59	563.77
			For Staggered Brick Pattern, Add	261.93	
			For Lexan Lattice Pattern, Add	1,571.57	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,516.62	
			For Staggered Brick Pattern, Add	1,690.79	
08 33 26 00-0041	EA		30' x 12', Steel Overhead Coiling Grilles, Manual Lift	15,079.40	689.04
			For Staggered Brick Pattern, Add	327.92	
			For Lexan Lattice Pattern, Add	1,967.55	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	1,757.53	
			For Staggered Brick Pattern, Add	1,842.13	
08 33 26 00-0042	EA		4' x 14', Steel Overhead Coiling Grilles, Manual Lift	3,977.46	187.92
			For Staggered Brick Pattern, Add	86.02	
			For Lexan Lattice Pattern, Add	516.14	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	294.78	
			For Staggered Brick Pattern, Add	579.41	
08 33 26 00-0043	EA		6' x 14', Steel Overhead Coiling Grilles, Manual Lift	4,622.70	187.92
			For Staggered Brick Pattern, Add	102.16	
			For Lexan Lattice Pattern, Add	612.93	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	442.27	
			For Staggered Brick Pattern, Add	711.45	
08 33 26 00-0044	EA		8' x 14', Steel Overhead Coiling Grilles, Manual Lift	5,408.35	234.90
			For Staggered Brick Pattern, Add	118.46	
			For Lexan Lattice Pattern, Add	710.78	
			For Aluminum With Clear Or Anodized Bronze Finish, Add	589.74	
			For Staggered Brick Pattern, Add	828.42	



		Openings	08
		Specialty Doors And Frames	08 30
		Coiling Doors And Grilles	08 33

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 26 00-0045	EA	12' x 14', Steel Overhead Coiling Grilles, Manual Lift	.....	6,763.77	234.90
		For Staggered Brick Pattern, Add		152.35	
		For Lexan Lattice Pattern, Add		914.09	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		884.69	
		For Staggered Brick Pattern, Add		1,050.50	
08 33 26 00-0046	EA	16' x 14', Steel Overhead Coiling Grilles, Manual Lift	.....	9,014.54	375.85
		For Staggered Brick Pattern, Add		198.47	
		For Lexan Lattice Pattern, Add		1,190.85	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,179.59	
		For Staggered Brick Pattern, Add		1,405.38	
08 33 26 00-0047	EA	20' x 14', Steel Overhead Coiling Grilles, Manual Lift	.....	11,123.63	469.81
		For Staggered Brick Pattern, Add		244.60	
		For Lexan Lattice Pattern, Add		1,467.60	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,474.48	
		For Staggered Brick Pattern, Add		1,760.26	
08 33 26 00-0048	EA	24' x 14', Steel Overhead Coiling Grilles, Manual Lift	.....	13,290.60	563.77
		For Staggered Brick Pattern, Add		292.03	
		For Lexan Lattice Pattern, Add		1,752.17	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,769.38	
		For Staggered Brick Pattern, Add		1,996.33	
08 33 26 00-0049	EA	30' x 14', Steel Overhead Coiling Grilles, Manual Lift	.....	17,040.86	689.04
		For Staggered Brick Pattern, Add		376.96	
		For Lexan Lattice Pattern, Add		2,261.76	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		2,088.77	
		For Staggered Brick Pattern, Add		2,280.90	
08 33 26 00-0050 Coiling Grilles Accessories (08 33 26)					
08 33 26 00-0051	EA	Add For Motor Operator	.....	2,160.98	38.04
		Note: Includes motor, supports, push button operator, stationary electronic eye, signal wiring from eye to motor and motor to operator.			
08 33 26 00-0052	LF	For Safety Edge Bottom Bar, Electric, Add	.....	61.51	
08 33 26 00-0053	LF	For Overhead Framed Rolling Grille Supports	.....	82.91	
08 33 36 Side Coiling Grilles (08 33)					
08 33 36 00-0001 Steel Side Coiling Grilles (Width x Height) (08 33 36)					
08 33 36 00-0002	EA	12' x 8', Steel Side Coiling Grilles, Manually Operated	.....	5,709.34	525.47
		For Staggered Brick Pattern, Add		105.20	
		For Lexan Lattice Pattern, Add		631.18	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		505.54	
		For Staggered Brick Pattern, Add		551.39	
08 33 36 00-0003	EA	18' x 8', Steel Side Coiling Grilles, Manually Operated	.....	8,106.87	675.00
		For Staggered Brick Pattern, Add		154.46	
		For Lexan Lattice Pattern, Add		926.74	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		775.45	
		For Staggered Brick Pattern, Add		883.14	
08 33 36 00-0004	EA	24' x 8', Steel Side Coiling Grilles, Manually Operated	.....	10,546.45	851.11
		For Staggered Brick Pattern, Add		202.87	
		For Lexan Lattice Pattern, Add		1,217.21	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,011.08	
		For Staggered Brick Pattern, Add		1,129.11	
08 33 36 00-0005	EA	30' x 8', Steel Side Coiling Grilles, Manually Operated	.....	12,829.11	939.61
		For Staggered Brick Pattern, Add		253.59	
		For Lexan Lattice Pattern, Add		1,521.51	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,171.06	
		For Staggered Brick Pattern, Add		1,231.44	
08 33 36 00-0006	EA	12' x 10', Steel Side Coiling Grilles, Manually Operated	.....	6,967.82	599.12
		For Staggered Brick Pattern, Add		131.40	
		For Lexan Lattice Pattern, Add		788.42	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		631.93	
		For Staggered Brick Pattern, Add		726.33	
08 33 36 00-0007	EA	18' x 10', Steel Side Coiling Grilles, Manually Operated	.....	9,927.23	769.50
		For Staggered Brick Pattern, Add		193.19	
		For Lexan Lattice Pattern, Add		1,159.12	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		930.66	
		For Staggered Brick Pattern, Add		1,102.92	
08 33 36 00-0008	EA	24' x 10', Steel Side Coiling Grilles, Manually Operated	.....	12,731.21	969.95
		For Staggered Brick Pattern, Add		248.98	
		For Lexan Lattice Pattern, Add		1,493.85	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,264.00	
		For Staggered Brick Pattern, Add		1,478.50	
08 33 36 00-0009	EA	30' x 10', Steel Side Coiling Grilles, Manually Operated	.....	15,748.64	1,071.16
		For Staggered Brick Pattern, Add		316.89	
		For Lexan Lattice Pattern, Add		1,901.34	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		1,479.96	
		For Staggered Brick Pattern, Add		1,656.25	
08 33 36 00-0010	EA	12' x 12', Steel Side Coiling Grilles, Manually Operated	.....	8,237.81	675.00
		For Staggered Brick Pattern, Add		157.73	
		For Lexan Lattice Pattern, Add		946.38	
		For Aluminum With Clear Or Anodized Bronze Finish, Add		758.28	
		For Staggered Brick Pattern, Add		898.06	

08 Openings**08 30 Specialty Doors And Frames****08 33 Coiling Doors And Grilles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 36 00-0011 EA 18' x 12', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	11,743.94 231.45 1,388.73 1,119.61 1,369.30	866.95
08 33 36 00-0012 EA 24' x 12', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	15,279.31 304.30 1,825.82 1,516.62 1,690.79	1,093.09
08 33 36 00-0013 EA 30' x 12', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	18,662.25 380.38 2,282.27 1,757.53 1,842.13	1,205.84
08 33 36 00-0014 EA 12' x 14', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	9,507.68 184.43 1,106.56 884.69 1,050.50	746.32
08 33 36 00-0015 EA 18' x 14', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	13,569.31 270.18 1,621.10 1,279.58 1,521.39	958.41
08 33 36 00-0016 EA 24' x 14', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	17,642.60 355.02 2,130.12 1,769.38 1,996.33	1,208.34
08 33 36 00-0017 EA 30' x 14', Steel Side Coiling Grilles, Manually Operated For Staggered Brick Pattern, Add For Lexan Lattice Pattern, Add For Aluminum With Clear Or Anodized Bronze Finish, Add For Staggered Brick Pattern, Add	21,552.98 443.54 2,661.27 2,088.77 2,280.90	1,334.25

08 33 39 High Speed Doors (08 33)

08 33 39 00-0001 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39)
 Note: Rytec® PredaDoor® PD5500. Door panel is 2-ply multi-filament Rilon. Includes full width vision panel. Side frames are fully bolted together, anodized aluminum construction with weather seal. Bottom bar releases in either direction when impacted, without damage to door. Drive system is a 3 phase, variable-speed AC Drive with brake and absolute encoder. Opens at 50" per second and closes at 21" per second.

08 33 39 00-0002 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0001)

08 33 39 00-0003 6' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)

08 33 39 00-0004 EA 6' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	9,581.10	361.71
08 33 39 00-0005 EA 6' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	9,740.37	377.08
08 33 39 00-0006 EA 6' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	9,923.09	392.46
08 33 39 00-0007 EA 6' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,175.17	407.83
08 33 39 00-0008 EA 6' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,432.36	423.20
08 33 39 00-0009 EA 6' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,860.90	438.57
08 33 39 00-0010 EA 6' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	11,167.05	453.94

08 33 39 00-0011 7' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)

08 33 39 00-0012 EA 7' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	9,774.03	377.08
08 33 39 00-0013 EA 7' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	9,975.11	392.46
08 33 39 00-0014 EA 7' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,226.17	407.83
08 33 39 00-0015 EA 7' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,491.52	423.20
08 33 39 00-0016 EA 7' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,839.48	438.57
08 33 39 00-0017 EA 7' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	11,257.83	453.94
08 33 39 00-0018 EA 7' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	11,589.48	469.32

08 33 39 00-0019 8' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)

08 33 39 00-0020 EA 8' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,007.75	392.46
08 33 39 00-0021 EA 8' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,257.79	407.83
08 33 39 00-0022 EA 8' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,533.34	423.20
08 33 39 00-0023 EA 8' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	10,891.50	438.57
08 33 39 00-0024 EA 8' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	11,214.99	453.94
08 33 39 00-0025 EA 8' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	11,670.06	469.32
08 33 39 00-0026 EA 8' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®)	12,044.55	484.69

08 33 39 00-0027 9' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)



Openings			08	08
Specialty Doors And Frames			08 30	
Coiling Doors And Grilles			08 33	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
08 33 39 00-0028	EA	9' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,291.45		407.83
08 33 39 00-0029	EA	9' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,564.96		423.20
08 33 39 00-0030	EA	9' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,923.12		438.57
08 33 39 00-0031	EA	9' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,256.81		453.94
08 33 39 00-0032	EA	9' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,606.82		469.32
08 33 39 00-0033	EA	9' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,970.09		484.69
08 33 39 00-0034	EA	9' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,368.03		500.06
08 33 39 00-0035	10' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)				
08 33 39 00-0036	EA	10' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,591.48		423.20
08 33 39 00-0037	EA	10' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,956.78		438.57
08 33 39 00-0038	EA	10' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,287.41		453.94
08 33 39 00-0039	EA	10' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,640.48		469.32
08 33 39 00-0040	EA	10' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,031.29		484.69
08 33 39 00-0041	EA	10' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,115.07		500.06
08 33 39 00-0042	EA	10' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,775.16		515.43
08 33 39 00-0043	11' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)				
08 33 39 00-0044	EA	11' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,976.16		438.57
08 33 39 00-0045	EA	11' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,314.95		453.94
08 33 39 00-0046	EA	11' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,672.10		469.32
08 33 39 00-0047	EA	11' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,063.93		484.69
08 33 39 00-0048	EA	11' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,323.15		500.06
08 33 39 00-0049	EA	11' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,830.24		515.43
08 33 39 00-0050	EA	11' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,246.54		530.80
08 33 39 00-0051	12' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 39 00-0002)				
08 33 39 00-0052	EA	12' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,324.13		453.94
08 33 39 00-0053	EA	12' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,690.46		469.32
08 33 39 00-0054	EA	12' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,089.43		484.69
08 33 39 00-0055	EA	12' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,357.83		500.06
08 33 39 00-0056	EA	12' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,708.86		515.43
08 33 39 00-0057	EA	12' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,293.46		530.80
08 33 39 00-0058	EA	12' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,701.60		546.19
08 33 39 00-0059	Rytec® PredaDoor® Door Options (08 33 39 00-0001)				
08 33 39 00-0060	EA	Up To 10' Wide Doors, Roll And Motor Hood For Rytec® PredaDoor® High-Speed Rolling Doors.....	331.50		90.43
08 33 39 00-0061	EA	>10' To 15' Wide Doors, Roll And Motor Hood For Rytec® PredaDoor® High-Speed Rolling Doors.....	550.80		90.43
08 33 39 00-0062	SF	Upgrade To 3-Ply Rilon Panel Material For Rytec® PredaDoor® High-Speed Rolling Doors.....	8.26		
08 33 39 00-0063	3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0063)				
Note: Rytec® Fast-Seal® FS1000. Door panel is heavy-duty 3-ply multi-filament Rilon. Independent opening and closing speeds up to 50" per second. Side frames are fully bolted together, reinforced with front and rear wind bar guides and full height vinyl weather seal on either side of the door panel. Counterbalance system consists of guided counterweights custom-sized to provide to provide proper balancing of each door system. The independent tension system maintains constant panel tensioning. The drive system is a 3 phase, variable speed AC drive motor with brake and absolute encoder. Bottom bar breaks away in either direction without damage to the bar, safety astragal, or side covers.					
08 33 39 00-0064	3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0063)				
08 33 39 00-0065	8' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)				
08 33 39 00-0066	EA	8' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	14,098.29		542.56
For NEMA 4X Control Box, Add			675.00		
For 2 Speed Motor, 60" Open, 30" Close, Add			1,100.00		
For AC Variable Speed Motor And Controls, Add			2,750.00		
For 304 Stainless Steel Side Frame Tower, Add			2,200.00		
For 316 Stainless Steel Side Frame Tower, Add			3,300.00		
08 33 39 00-0067	EA	8' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	14,742.06		557.93
For NEMA 4X Control Box, Add			675.00		
For 2 Speed Motor, 60" Open, 30" Close, Add			1,100.00		
For AC Variable Speed Motor And Controls, Add			2,750.00		
For 304 Stainless Steel Side Frame Tower, Add			2,200.00		
For 316 Stainless Steel Side Frame Tower, Add			3,300.00		
08 33 39 00-0068	EA	8' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	15,302.18		573.31
For NEMA 4X Control Box, Add			675.00		
For 2 Speed Motor, 60" Open, 30" Close, Add			1,100.00		
For AC Variable Speed Motor And Controls, Add			2,750.00		
For 304 Stainless Steel Side Frame Tower, Add			2,200.00		
For 316 Stainless Steel Side Frame Tower, Add			3,300.00		

08 Openings**08 30 Specialty Doors And Frames****08 33 Coiling Doors And Grilles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 39 00-0069	EA		8' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	15,905.15 675.00 1,100.00 2,750.00 2,200.00 3,300.00	588.69
08 33 39 00-0070	EA		8' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	16,589.71 675.00 1,100.00 2,750.00 2,200.00 3,300.00	604.06
08 33 39 00-0071	EA		8' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	16,945.83 675.00 1,100.00 2,750.00 2,200.00 3,300.00	619.43
08 33 39 00-0072	EA		8' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	17,505.96 675.00 1,100.00 2,750.00 2,200.00 3,300.00	634.80
08 33 39 00-0073 9' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)					
08 33 39 00-0074	EA		9' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	14,742.06 675.00 1,100.00 2,750.00 3,300.00 4,950.00	557.93
08 33 39 00-0075	EA		9' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	15,302.18 675.00 1,100.00 2,750.00 3,300.00 4,950.00	573.31
08 33 39 00-0076	EA		9' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	15,905.15 675.00 1,100.00 2,750.00 3,300.00 4,950.00	588.69
08 33 39 00-0077	EA		9' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	16,589.71 675.00 1,100.00 2,750.00 3,300.00 4,950.00	604.06
08 33 39 00-0078	EA		9' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	16,945.83 675.00 1,100.00 2,750.00 3,300.00 4,950.00	619.43
08 33 39 00-0079	EA		9' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	17,505.96 675.00 1,100.00 2,750.00 3,300.00 4,950.00	634.80
08 33 39 00-0080	EA		9' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	18,230.30 675.00 1,100.00 2,750.00 3,300.00 4,950.00	650.18
08 33 39 00-0081 10' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)					
08 33 39 00-0082	EA		10' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	15,302.18 675.00 1,100.00 2,750.00 3,300.00 4,950.00	573.31



Openings		08	08
Specialty Doors And Frames		08 30	
Coiling Doors And Grilles		08 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 39 00-0083	EA	10' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	15,905.15	588.69	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	3,300.00		
		For 316 Stainless Steel Side Frame Tower, Add	4,950.00		
08 33 39 00-0084	EA	10' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	16,589.71	604.06	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	3,300.00		
		For 316 Stainless Steel Side Frame Tower, Add	4,950.00		
08 33 39 00-0085	EA	10' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	16,945.83	619.43	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	3,300.00		
		For 316 Stainless Steel Side Frame Tower, Add	4,950.00		
08 33 39 00-0086	EA	10' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	17,505.96	634.80	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	3,300.00		
		For 316 Stainless Steel Side Frame Tower, Add	4,950.00		
08 33 39 00-0087	EA	10' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,230.30	650.18	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	3,300.00		
		For 316 Stainless Steel Side Frame Tower, Add	4,950.00		
08 33 39 00-0088	EA	10' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,913.86	665.55	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	3,300.00		
		For 316 Stainless Steel Side Frame Tower, Add	4,950.00		
08 33 39 00-0089		11' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)			
08 33 39 00-0090	EA	11' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	15,905.15	588.69	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		
08 33 39 00-0091	EA	11' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	16,589.71	604.06	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		
08 33 39 00-0092	EA	11' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	16,945.83	619.43	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		
08 33 39 00-0093	EA	11' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	17,505.96	634.80	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		
08 33 39 00-0094	EA	11' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,230.30	650.18	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		
08 33 39 00-0095	EA	11' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,913.86	665.55	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		
08 33 39 00-0096	EA	11' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	19,679.00	680.92	
		For NEMA 4X Control Box, Add	675.00		
		For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00		
		For AC Variable Speed Motor And Controls, Add	2,750.00		
		For 304 Stainless Steel Side Frame Tower, Add	4,400.00		
		For 316 Stainless Steel Side Frame Tower, Add	6,600.00		

08	Openings
08 30	Specialty Doors And Frames
08 33	Coiling Doors And Grilles



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
08 33 39 00-0097	12' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)				
08 33 39 00-0098	EA 12' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	16,589.71		604.06	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0099	EA 12' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	16,945.83		619.43	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0100	EA 12' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	17,505.96		634.80	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0101	EA 12' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,230.30		650.18	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0102	EA 12' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,913.86		665.55	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0103	EA 12' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	19,679.00		680.92	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0104	EA 12' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	20,226.89		696.29	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	4,400.00			
	For 316 Stainless Steel Side Frame Tower, Add	6,600.00			
08 33 39 00-0105	13' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)				
08 33 39 00-0106	EA 13' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	17,366.07		619.43	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	5,480.00			
	For 316 Stainless Steel Side Frame Tower, Add	7,370.00			
08 33 39 00-0107	EA 13' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,084.30		634.80	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	5,480.00			
	For 316 Stainless Steel Side Frame Tower, Add	7,370.00			
08 33 39 00-0108	EA 13' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,764.78		650.18	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	5,480.00			
	For 316 Stainless Steel Side Frame Tower, Add	7,370.00			
08 33 39 00-0109	EA 13' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	19,556.46		665.55	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	5,480.00			
	For 316 Stainless Steel Side Frame Tower, Add	7,370.00			
08 33 39 00-0110	EA 13' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	20,345.06		680.92	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	5,480.00			
	For 316 Stainless Steel Side Frame Tower, Add	7,370.00			
08 33 39 00-0111	EA 13' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	20,928.65		696.29	
	For NEMA 4X Control Box, Add	675.00			
	For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00			
	For AC Variable Speed Motor And Controls, Add	2,750.00			
	For 304 Stainless Steel Side Frame Tower, Add	5,480.00			
	For 316 Stainless Steel Side Frame Tower, Add	7,370.00			



		Openings	08	08
		Specialty Doors And Frames	08 30	
		Coiling Doors And Grilles	08 33	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 39 00-0112	EA		13' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	21,370.45 675.00 1,100.00 2,750.00 5,480.00 7,370.00	711.67
08 33 39 00-0113 14' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 39 00-0064)					
08 33 39 00-0114	EA		14' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	18,084.30 675.00 1,100.00 2,750.00 5,480.00 7,370.00	634.80
08 33 39 00-0115	EA		14' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	18,764.78 675.00 1,100.00 2,750.00 5,480.00 7,370.00	650.18
08 33 39 00-0116	EA		14' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	19,556.46 675.00 1,100.00 2,750.00 5,480.00 7,370.00	665.55
08 33 39 00-0117	EA		14' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	20,345.06 675.00 1,100.00 2,750.00 5,480.00 7,370.00	680.92
08 33 39 00-0118	EA		14' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	20,928.65 675.00 1,100.00 2,750.00 5,480.00 7,370.00	696.29
08 33 39 00-0119	EA		14' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	21,370.45 675.00 1,100.00 2,750.00 5,480.00 7,370.00	711.67
08 33 39 00-0120	EA		14' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	22,030.53 675.00 1,100.00 2,750.00 5,480.00 7,370.00	727.04
08 33 39 00-0121 Rytec® Fast-Seal® Door Options (08 33 39 00-0063)					
08 33 39 00-0122	LF		Strapped Windbar For Rytec® Fast-Seal® High-Speed Rolling Doors Note: Multiply linear foot price x width of door.	30.60	
08 33 39 00-0123	EA		Up To 10' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	331.50	
08 33 39 00-0124	EA		>10' To 15' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	550.80	
08 33 39 00-0125	EA		>15' To 20' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	810.00	
08 33 39 00-0126	EA		One 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Window With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors.....	193.80	
08 33 39 00-0127	EA		Two 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 90" wide.	382.50	
08 33 39 00-0128	EA		Three 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 102" wide.	484.50	
08 33 39 00-0129	EA		Four 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 136" wide.	765.00	
08 33 39 00-0130	EA		One 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Window With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors.....	224.40	
08 33 39 00-0131	EA		Two 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 108" wide.	443.70	
08 33 39 00-0132	EA		Three 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 144" wide.	550.80	
08 33 39 00-0133	EA		Four 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 192" wide.	887.40	

08	Openings
08 30	Specialty Doors And Frames
08 33	Coiling Doors And Grilles



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
08 33 39 00-0134	Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral®) (08 33 39) Note: Door panels are double-walled aluminum slats that are 6" high x 1-3/16" thick. Width is variable. Side frames are galvanized steel with full height weatherseal on both sides. There are extension springs in each column for counterbalance. The drive system is a 2 HP, 208,230/460 Volt, three-phase motor with variable speed AC drive. Opening and closing speeds up to 60" per second.				
08 33 39 00-0135	Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral®) (08 33 39 00-0134)				
08 33 39 00-0136	8' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0137	EA 8' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	20,087.34		723.42	
08 33 39 00-0138	EA 8' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	20,669.91		738.79	
08 33 39 00-0139	EA 8' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,252.47		754.17	
08 33 39 00-0140	EA 8' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,836.06		769.54	
08 33 39 00-0141	EA 8' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	22,418.62		784.91	
08 33 39 00-0142	EA 8' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,001.18		800.28	
08 33 39 00-0143	EA 8' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,686.37		815.65	
08 33 39 00-0144	9' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0145	EA 9' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	20,669.91		738.79	
08 33 39 00-0146	EA 9' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,252.47		754.17	
08 33 39 00-0147	EA 9' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,836.06		769.54	
08 33 39 00-0148	EA 9' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	22,418.62		784.91	
08 33 39 00-0149	EA 9' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,001.18		800.28	
08 33 39 00-0150	EA 9' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,583.75		815.65	
08 33 39 00-0151	EA 9' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,268.93		831.03	
08 33 39 00-0152	10' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0153	EA 10' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,252.47		754.17	
08 33 39 00-0154	EA 10' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,836.06		769.54	
08 33 39 00-0155	EA 10' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	22,418.62		784.91	
08 33 39 00-0156	EA 10' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,001.18		800.28	
08 33 39 00-0157	EA 10' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,583.75		815.65	
08 33 39 00-0158	EA 10' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,166.31		831.03	
08 33 39 00-0159	EA 10' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,851.50		846.40	
08 33 39 00-0160	11' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0161	EA 11' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	21,836.06		769.54	
08 33 39 00-0162	EA 11' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	22,418.62		784.91	
08 33 39 00-0163	EA 11' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,001.18		800.28	
08 33 39 00-0164	EA 11' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,583.75		815.65	
08 33 39 00-0165	EA 11' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,166.31		831.03	
08 33 39 00-0166	EA 11' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,748.88		846.40	
08 33 39 00-0167	EA 11' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	26,433.05		861.77	
08 33 39 00-0168	12' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0169	EA 12' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	22,418.62		784.91	
08 33 39 00-0170	EA 12' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,001.18		800.28	
08 33 39 00-0171	EA 12' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,583.75		815.65	
08 33 39 00-0172	EA 12' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,166.31		831.03	
08 33 39 00-0173	EA 12' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,748.88		846.40	
08 33 39 00-0174	EA 12' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,331.45		861.77	
08 33 39 00-0175	EA 12' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,016.64		877.14	
08 33 39 00-0176	13' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0177	EA 13' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,001.18		800.28	
08 33 39 00-0178	EA 13' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,583.75		815.65	
08 33 39 00-0179	EA 13' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,166.31		831.03	
08 33 39 00-0180	EA 13' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,748.88		846.40	
08 33 39 00-0181	EA 13' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,331.45		861.77	
08 33 39 00-0182	EA 13' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,914.02		877.14	
08 33 39 00-0183	EA 13' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,599.20		892.52	
08 33 39 00-0184	14' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) (08 33 39 00-0135)				
08 33 39 00-0185	EA 14' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,686.37		815.65	
08 33 39 00-0186	EA 14' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,268.93		831.03	



		Openings	08
		Specialty Doors And Frames	08 30
		Coiling Doors And Grilles	08 33

08

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
08 33 39 00-0187	EA	14' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	25,851.50		846.40
08 33 39 00-0188	EA	14' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	26,433.05		861.77
08 33 39 00-0189	EA	14' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	27,016.64		877.14
08 33 39 00-0190	EA	14' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	27,599.20		892.52
08 33 39 00-0191	EA	14' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	28,176.67		907.89
08 33 39 00-0192 Rytec® Spiral® Door Options (08 33 39 00-0134)					
08 33 39 00-0193	EA	Insulated Slats For Rytec® Spiral® High-Speed Rolling Doors.....	331.50		
Note: Per door price.					
08 33 39 00-0194	EA	Up To 13' Wide Doors, 6" High x Width Of Door, Window Slats For Rytec® Spiral® High-Speed Rolling Doors.....	224.40		
Note: Maximum of 4 per door.					
08 33 39 00-0195	EA	>13' Wide Doors, 6" High x Width Of Door, Window Slats For Rytec® Spiral® High-Speed Rolling Doors.....	331.50		
Note: Maximum of 4 per door.					
08 33 39 00-0196	EA	Right Hand Motor Mount For Rytec® Spiral® High-Speed Rolling Doors.....	641.23		45.22
08 33 39 00-0197	EA	Up To 13' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors.....	1,833.25		90.43
08 33 39 00-0198	EA	>13' To 16' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors.....	3,266.35		90.43
08 33 39 00-0199	EA	>16' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors.....	3,710.05		90.43
08 33 39 00-0200 Activation And Control Box Options For High Speed Doors (08 33 39)					
08 33 39 00-0201	EA	Pull Cord For High-Speed Rolling Doors.....	172.03		45.22
08 33 39 00-0202	EA	Emergency Stop, Pushbutton Control For High-Speed Rolling Doors.....	126.82		22.60
08 33 39 00-0203	EA	NEMA 4 Mushroom Remote Pushbutton Control For High-Speed Rolling Doors.....	157.42		22.60
08 33 39 00-0204	EA	On/Off Key Switch, Remote Control For High-Speed Rolling Doors.....	167.62		22.60
08 33 39 00-0205	EA	Open/Close/Stop, Remote Pushbutton Control For High-Speed Rolling Doors.....	295.12		22.60
08 33 39 00-0206	EA	Radio Control For High-Speed Rolling Doors.....	467.14		40.69
Note: Includes one receiver and two transmitters.					
08 33 39 00-0207	EA	Floor Loop For High-Speed Rolling Doors.....	647.99		
Note: Excludes sealant.					
08 33 39 00-0208	EA	Reflective Type Photo Eye For High-Speed Rolling Doors.....	405.64		40.69
08 33 39 00-0209	EA	Thru-Beam Type Photo Eye For High-Speed Rolling Doors.....	523.24		40.69
08 33 39 00-0210	EA	Motion Detector For High-Speed Rolling Doors.....	441.86		27.13
08 33 39 00-0211	EA	Remote Warning Horn For High-Speed Rolling Doors.....	314.83		45.22
Note: Includes wall box and mounting hardware.					
08 33 39 00-0212	EA	Remote Strobe Light For High-Speed Rolling Doors.....	421.93		45.22
Note: Includes wall box and mounting hardware.					
08 33 39 00-0213	EA	Remote Warning Horn And Strobe Light For High-Speed Rolling Doors.....	478.03		45.22
Note: Includes wall box and mounting hardware.					
08 33 39 00-0214	EA	Red And Green Red Light For High-Speed Rolling Doors.....	590.23		45.22
Note: Includes mounting hardware.					
08 33 43 Overhead Coiling Smoke Curtains (08 33)					
08 33 43 00-0001 Elevator Smoke Guard (08 33 43)					
08 33 43 00-0002	EA	Elevator Smoke Guard, 55" Width Housing (Smoke Guard 400).....	8,151.12		525.47
08 33 43 00-0003	EA	Elevator Smoke Guard, 64" Width Housing (Smoke Guard 400).....	8,432.62		525.47
08 33 43 00-0004	EA	Elevator Smoke Guard, 73" Width Housing (Smoke Guard 400).....	8,714.12		525.47
08 34 Special Function Doors (08 30)					
08 34 13 Cold Storage Doors (08 34)					
08 34 13 00-0001 Vertical Sliding Doors (08 34 13)					
Note: Doors to be filled with 4" F.I.P. polyurethane.					
08 34 13 00-0002	EA	7'-0" x 8'-0" Single Leaf Vertical Sliding Cold Storage, Filled With 4" F.I.P. Polyurethane.....	6,360.73		878.01
For Adjusting Height Of Door To Fit Opening <7' Height, Add			438.15		
08 34 13 00-0003	EA	7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" F.I.P. Polyurethane.....	8,157.46		1,114.66
For Adjusting Height Of Door To Fit Opening <7' Height, Add			557.33		
08 34 13 00-0004 Horizontal Sliding Doors (08 34 13)					
Note: Doors to be filled with 4" F.I.P. polyurethane.					
08 34 13 00-0005	EA	6'-0" x 9'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" F.I.P. Polyurethane.....	5,108.57		701.23
08 34 13 00-0006	EA	7'-0" x 9'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" F.I.P. Polyurethane.....	5,758.07		790.74
08 34 13 00-0007	EA	7'-0" x 9'-0" Bi-Parting Horizontal Sliding Cold Storage, Filled With 4" F.I.P. Polyurethane.....	7,447.12		1,042.09
08 34 13 00-0008	EA	5'-0" x 7'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" F.I.P. Polyurethane.....	4,459.83		637.14
08 34 13 00-0009 Horizontal Hinge Type (08 34 13)					
Note: Doors to be filled with 4" F.I.P. polyurethane.					
08 34 13 00-0010	EA	3'-0" x 7'-0" Swinging Cold Storage Door, Filled With 4" F.I.P. Polyurethane.....	3,009.51		414.43
08 34 16 Hangar Doors (08 34)					
08 34 16 00-0001	SF	70' To 120' Wide X To 20' High Hangar Door 25' Panels.....	46.58		13.87
Note: Includes motorized opener and special hardware.					
08 34 16 00-0002	SF	120' To 180' Wide X To 20' High Hangar Door 25' Panels.....	42.34		13.87
Note: Includes motorized opener and special hardware.					

08 Openings**08 30 Specialty Doors And Frames****08 34 Special Function Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 34 16 00-0003	SF		120' To 180' Wide X 20-40' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	41.66	2.97
08 34 16 00-0004	SF		120' To 180' Wide X 40-60' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	42.32	1.98
08 34 16 00-0005	SF		120' To 180' Wide X 60-80' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	44.23	1.98
08 34 16 00-0006	SF		120' To 180' Wide x >80' High Hanger Door 25' Panels Note: Includes motorized opener and special hardware.	68.34	1.98
08 34 23 Sidewalk and Basement Doors (08 34)					
08 34 23 00-0001			Drainage Doors (08 34 23)		
08 34 23 00-0002			Single Leaf Aluminum Drainage Doors (08 34 23 00-0001) Note: Bilco - J Series.		
08 34 23 00-0003	EA		2' x 2' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,000.15	161.05
08 34 23 00-0004	EA		2' 6" x 2' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,227.78	168.29
08 34 23 00-0005	EA		3' x 2' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,303.32	171.90
08 34 23 00-0006	EA		3' x 3' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,436.26	175.52
08 34 23 00-0007	EA		3' 6" x 3' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,672.97	184.57
08 34 23 00-0008	EA		2' 6" x 4' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,704.89	180.31
08 34 23 00-0009	EA		3' x 4' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,896.11	184.57
08 34 23 00-0010	EA		2' 6" x 5' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,978.96	188.81
08 34 23 00-0011	EA		3' x 5' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,170.18	193.07
08 34 23 00-0012	EA		3' x 6' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,517.99	203.91
08 34 23 00-0013			Double Leaf Aluminum Drainage Doors (08 34 23 00-0001) Note: Bilco - JD Series.		
08 34 23 00-0014	EA		4' x 2' 6" Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,023.67	180.31
08 34 23 00-0015	EA		4' x 4' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,125.55	193.07
08 34 23 00-0016	EA		4' x 6' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,693.67	214.76
08 34 23 00-0017	EA		5' x 5' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,770.18	214.76
08 34 23 00-0018			Single Leaf Aluminum H2O Drainage Doors (08 34 23 00-0001) Note: Bilco - J H2O Series.		
08 34 23 00-0019	EA		2' x 2' Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	1,593.08	161.05
08 34 23 00-0020	EA		2' 6" x 2' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	1,858.96	168.29
08 34 23 00-0021	EA		3' x 2' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	2,023.79	171.90
08 34 23 00-0022	EA		3' x 3' Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	2,290.62	175.52
08 34 23 00-0023	EA		3' 6" x 3' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	2,648.46	184.57
08 34 23 00-0024			Double Leaf Aluminum H2O Drainage Doors (08 34 23 00-0001) Note: Bilco - JD H2O Series.		
08 34 23 00-0025	EA		4' x 2' 6" Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-1ALH2O)	2,648.48	180.31
08 34 23 00-0026	EA		4' x 4' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-2ALH2O)	3,540.94	193.07
08 34 23 00-0027	EA		4' x 6' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-3ALH2O)	5,033.52	214.76
08 34 23 00-0028	EA		5' x 5' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-4ALH2O)	4,740.24	214.76
08 34 23 00-0029			Single Leaf Steel Drainage Doors (08 34 23 00-0001) Note: Bilco - J Series.		
08 34 23 00-0030	EA		2' x 2' Single Leaf Steel Floor, Vault Or Sidewalk Door (Bilco J-1)	1,138.02	161.05
08 34 23 00-0031	EA		2' 6" x 2' 6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-2)	1,195.37	168.29
08 34 23 00-0032	EA		3' x 2' 6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-3)	1,326.96	171.90
08 34 23 00-0033	EA		3' x 3' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-4)	1,465.22	175.52
08 34 23 00-0034	EA		3' 6" x 3' 6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-5)	1,697.94	184.57
08 34 23 00-0035	EA		2' 6" x 4' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-6)	1,618.55	180.31
08 34 23 00-0036	EA		3' x 4' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-7)	1,837.40	184.57
08 34 23 00-0037	EA		2' 6" x 5' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-8)	1,830.46	188.81
08 34 23 00-0038	EA		3' x 5' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-9)	2,036.03	193.07
08 34 23 00-0039	EA		3' x 6' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-10)	2,171.85	203.91
08 34 23 00-0040			Double Leaf Steel Drainage Doors (08 34 23 00-0001) Note: Bilco - JD Series.		
08 34 23 00-0041	EA		4' x 2' 6" Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-1)	1,977.18	180.31
08 34 23 00-0042	EA		4' x 4' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-2)	2,075.88	193.07
08 34 23 00-0043	EA		4' x 6' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-3)	2,579.97	214.76
08 34 23 00-0044	EA		5' x 5' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-4)	2,653.03	214.76
08 34 23 00-0045			Single Leaf Steel H2O Drainage Doors (08 34 23 00-0001) Note: Bilco - J H2O Series.		
08 34 23 00-0046	EA		2' x 2' Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-1H2O)	1,908.40	161.05
08 34 23 00-0047	EA		2' 6" x 2' 6" Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-2H2O)	2,018.88	168.29
08 34 23 00-0048	EA		3' x 2' 6" Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-3H2O)	2,090.73	171.90
08 34 23 00-0049	EA		3' x 3' Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-4H2O)	2,454.79	175.52
08 34 23 00-0050	EA		3' 6" x 3' 6" Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-5H2O)	2,886.75	184.57



Openings			08	08
Specialty Doors And Frames			08 30	
Special Function Doors			08 34	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 34 23 00-0051			Double Leaf Steel H2O Drainage Doors (08 34 23 00-0001) Note: Bilco - JD H2O Series.		
08 34 23 00-0052	EA		4' x 2' 6" Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-1H2O).....	3,172.61	180.31
08 34 23 00-0053	EA		4' x 4' Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-2H2O).....	3,543.59	193.07
08 34 23 00-0054	EA		4' x 6' Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-3H2O).....	5,243.12	214.76
08 34 23 00-0055	EA		5' x 5' Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-4H2O).....	5,110.29	214.76
08 34 23 00-0056			Single Leaf Aluminum Drainage Door (08 34 23 00-0001) Note: Bilco - J-R (Odor Resistant).		
08 34 23 00-0057	EA		2' x 2' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-1ALR).....	957.35	161.05
08 34 23 00-0058	EA		2' 6" x 2' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-2ALR).....	1,125.64	168.29
08 34 23 00-0059	EA		3' x 2' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-3ALR).....	1,190.81	171.90
08 34 23 00-0060	EA		3' x 3' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-4ALR).....	1,257.14	175.52
08 34 23 00-0061	EA		3' 6" x 3' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-5ALR).....	1,415.49	184.57
08 34 23 00-0062			Non-Drainage Doors (08 34 23)		
08 34 23 00-0063			Single Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - Q Series.		
08 34 23 00-0064	EA		2' x 2' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-1AL).....	961.96	161.05
08 34 23 00-0065	EA		2' 6" x 2' 6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-2AL).....	1,164.02	168.29
08 34 23 00-0066	EA		2' 6" x 3' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-3AL).....	1,246.00	171.90
08 34 23 00-0067	EA		3' x 3' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-4AL).....	1,296.03	175.52
08 34 23 00-0068	EA		3' 6" x 3' 6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-5AL).....	1,628.34	184.57
08 34 23 00-0069	EA		2' 6" x 4' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-6AL).....	1,469.03	180.31
08 34 23 00-0070	EA		3' x 4' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-7AL).....	1,641.09	184.57
08 34 23 00-0071	EA		2' 6" x 5' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-8AL).....	1,838.59	188.81
08 34 23 00-0072	EA		3' x 5' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-9AL).....	1,947.12	193.07
08 34 23 00-0073	EA		3' x 6' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-10AL).....	2,212.21	203.91
08 34 23 00-0074			Single Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - K Series.		
08 34 23 00-0075	EA		2' x 2' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-1).....	789.82	161.05
08 34 23 00-0076	EA		2' 6" x 2' 6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-2).....	947.25	168.29
08 34 23 00-0077	EA		3' x 2' 6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-3).....	1,048.35	171.90
08 34 23 00-0078	EA		3' x 3' Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-4).....	1,117.51	175.52
08 34 23 00-0079	EA		3' 6" x 3' 6" Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-5).....	1,296.81	184.57
08 34 23 00-0080			Double Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - QD Series.		
08 34 23 00-0081	EA		4' x 2' 6" Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco QD-1AL).....	1,864.32	180.31
08 34 23 00-0082			Double Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - KD Series.		
08 34 23 00-0083	EA		4' x 4' Double Leaf Aluminum Non Drainage Floor, Vault Or Sidewalk Door.....	1,787.73	193.07
08 34 23 00-0084	EA		4' x 6' Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco KD-3).....	2,508.87	214.76
08 34 23 00-0085	EA		5' x 5' Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco KD-4).....	2,559.88	214.76
08 34 23 00-0086			Single Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - T Series.		
08 34 23 00-0087	EA		2' x 2' Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-1).....	866.33	161.05
08 34 23 00-0088	EA		2' 6" x 2' 6" Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-2).....	1,011.01	168.29
08 34 23 00-0089	EA		3' x 2' 6" Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-3).....	1,080.23	171.90
08 34 23 00-0090	EA		3' x 3' Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-4).....	1,181.27	175.52
08 34 23 00-0091	EA		3' 6" x 3' 6" Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-5).....	1,379.69	184.57
08 34 23 00-0092			Double Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - TD Series.		
08 34 23 00-0093	EA		4' x 4' Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco TD-2).....	1,896.11	193.07
08 34 23 00-0094	EA		4' x 6' Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco TD-3).....	2,642.76	214.76
08 34 23 00-0095	EA		5' x 5' Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco TD-4).....	2,681.01	214.76
08 34 23 00-0096			Single Leaf Steel Non-Drainage Doors (08 34 23 00-0062) Note: Bilco - Q Series.		
08 34 23 00-0097	EA		2' x 2' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-1).....	792.74	161.05
08 34 23 00-0098	EA		2' 6" x 2' 6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-2).....	883.23	168.29
08 34 23 00-0099	EA		3' x 2' 6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-3).....	988.32	171.90
08 34 23 00-0100	EA		3' x 3' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-4).....	1,046.85	175.52
08 34 23 00-0101	EA		3' 6" x 3' 6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-5).....	1,228.76	184.57
08 34 23 00-0102	EA		2' 6" x 4' Single Leaf Steel Non Drainage Floor, Vault Or Sidewalk Door.....	1,186.31	175.52

08 Openings**08 30 Specialty Doors And Frames****08 34 Special Function Doors**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 34 23 00-0103		Double Leaf Steel Non-Drainage Doors (08 34 23 00-0062)		
		Note: Bilco - QD Series.		
08 34 23 00-0104	EA	4' x 2' 6" Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco QD-1)	1,558.78	180.31
08 34 23 00-0105		Basement Doors (08 34 23)		
		Note: 12 gauge primed steel, center opening, includes assembly and installation hardware.		
08 34 23 00-0106	EA	45-1/4" Wide x 65-1/4" Long, Sloped Wall Basement Door, Factory Primed Metal (Bilco Classic Series).....	1,114.93	203.46
08 34 23 00-0107	EA	30" High x 47" Wide x 58" Long, Basement Door (Bilco Classic Series).....	912.72	154.18
08 34 23 00-0108	EA	22" High x 51" Wide x 64" Long, Basement Door (Bilco Classic Series).....	952.78	169.55
08 34 23 00-0109	EA	19-1/2" High x 55" Wide x 72" Long, Basement Door (Bilco Classic Series)	1,017.91	180.85
08 34 23 00-0110	EA	52" High x 51" Wide x 43-1/4" Long, Basement Door (Bilco Classic Series)	1,128.20	203.46
08 34 49		Radiation Shielding Doors And Frames (08 34)		
08 34 49 13		Neutron Shielding Doors And Frames (08 34 49)		
08 34 49 13-0001		Lead Lined Doors And Frames (08 34 49 13)		
08 34 49 13-0002	SF	1/16" Thick Laminated Lead In Wood Door	46.52	9.04
08 34 49 13-0003	SF	1/8" Thick Laminated Lead In Wood Door	53.70	9.04
08 34 49 13-0004	LF	1/16" Thick Lead Lined Door Frame	46.23	9.04
08 34 49 13-0005	LF	1/8" Thick Lead Lined Door Frame	48.62	9.04
08 34 53		Security Doors And Frames (08 34)		
08 34 53 00-0001		Metal Security Doors, Bullet Resistant (08 34 53)		
		Note: Includes door, frame, hardware hinges, lockset and cylinder, all UL 753 Listed.		
08 34 53 00-0002	SF	Metal Security Door	44.85	7.34
08 34 53 00-0003	EA	Up To 3' x 7' (.38 caliber) Medium-Small Arms Metal Security Door.....	1,807.16	366.45
08 34 53 00-0004	EA	Up To 3' x 7' (.44 caliber) Super-Small Arms Metal Security Door.....	2,119.03	389.00
08 34 53 00-0005		Metal Security Doors (08 34 53)		
		Note: Includes standard pitcher handle latch, pneumatic closure, hinges and baked enamel finish.		
08 34 53 00-0006	EA	Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-501-28-O).....	665.50	67.12
		Note: Top and bottom section are #12 mesh 0.028" stainless steel wire cloth with a bottom kick plate.		
08 34 53 00-0007	EA	Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-503-28-O).....	665.50	67.12
		Note: Top section is #12 mesh 0.028" stainless steel wire cloth and bottom section is a double kick panel.		
08 34 53 00-0008	EA	Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-504-28-O).....	931.15	67.12
		Note: Top section includes 1/8" tempered sash unit and #12 mesh 0.028" stainless steel wire cloth. Bottom section is a double kick panel.		
08 34 56		Security Gates (08 34)		
08 34 56 00-0001		Pivoting Double Folding Gate (08 34 56)		
		Note: Includes locking bar, solid steel casters and galvanized finish. Excludes padlock.		
08 34 56 00-0002	EA	6' To 8' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	782.34	172.01
08 34 56 00-0003	EA	8' To 10' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	878.47	193.51
08 34 56 00-0004	EA	8' To 10' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate	948.04	215.02
08 34 56 00-0005	EA	8' To 10' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate	1,044.16	236.51
08 34 56 00-0006	EA	10' To 12' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	879.50	174.16
08 34 56 00-0007	EA	10' To 12' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate	949.24	195.66
08 34 56 00-0008	EA	10' To 12' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	1,041.02	217.16
08 34 56 00-0009	EA	10' To 12' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate	1,115.36	238.66
08 34 56 00-0010	EA	12' To 14' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate	923.63	176.31
08 34 56 00-0011	EA	12' To 14' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	993.13	197.81
08 34 56 00-0012	EA	12' To 14' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate	1,047.92	208.56
08 34 56 00-0013	EA	12' To 14' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	1,102.92	219.32
08 34 56 00-0014	EA	12' To 14' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate	1,179.15	240.82
08 34 56 00-0015	EA	14' To 16' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate	1,007.70	178.46
08 34 56 00-0016	EA	14' To 16' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	1,076.97	199.97
08 34 56 00-0017	EA	14' To 16' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate	1,138.33	210.71
08 34 56 00-0018	EA	14' To 16' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	1,213.70	221.46
08 34 56 00-0019	EA	14' To 16' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate	1,322.71	242.96
08 34 56 00-0020	EA	16' To 18' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate	1,135.97	182.76
08 34 56 00-0021	EA	16' To 18' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	1,222.73	206.41
08 34 56 00-0022	EA	16' To 18' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate	1,314.88	219.32
08 34 56 00-0023	EA	16' To 18' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate	1,368.55	225.76
08 34 56 00-0024		Pivoting Single Folding Gate (08 34 56)		
		Note: Includes locking bar, solid steel casters and galvanized finish. Excludes padlock.		
08 34 56 00-0025	EA	5' To 6' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate	533.05	120.40
08 34 56 00-0026	EA	5' To 6' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	568.20	124.70
08 34 56 00-0027	EA	5' To 6' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate	603.36	129.01
08 34 56 00-0028	EA	5' To 6' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	647.15	137.61
08 34 56 00-0029	EA	5' To 6' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate	677.62	146.21
08 34 56 00-0030	EA	6' To 7' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate	568.07	124.70
08 34 56 00-0031	EA	6' To 7' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	603.42	129.01



Openings			08	08
Specialty Doors And Frames			08 30	
Special Function Doors			08 34	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
08 34 56 00-0032	EA	6' To 7' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate	638.59	133.31
08 34 56 00-0033	EA	6' To 7' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	682.33	141.91
08 34 56 00-0034	EA	6' To 7' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate	713.00	150.51
08 34 56 00-0035	EA	7' To 8' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate	616.51	129.01
08 34 56 00-0036	EA	7' To 8' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	651.87	133.31
08 34 56 00-0037	EA	7' To 8' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate	686.98	137.61
08 34 56 00-0038	EA	7' To 8' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	730.85	146.21
08 34 56 00-0039	EA	7' To 8' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate	774.82	154.80
08 34 56 00-0040	Window Gates, Expands From 2' To 4' (08 34 56)			
Note: Includes padlock hasp and galvanized finish. Excludes padlock.				
08 34 56 00-0041	EA	33" High Window Gate, Up To 4' Wide Opening.....	215.85	47.31
08 34 56 00-0042	EA	37" High Window Gate, Up To 4' Wide Opening.....	224.46	51.60
08 34 56 00-0043	EA	40" High Window Gate, Up To 4' Wide Opening.....	224.46	51.60
08 34 56 00-0044	EA	43" High Window Gate, Up To 4' Wide Opening.....	233.58	55.90
08 34 56 00-0045	EA	46" High Window Gate, Up To 4' Wide Opening.....	233.58	55.90
08 34 56 00-0046	EA	49" High Window Gate, Up To 4' Wide Opening.....	242.17	60.20
08 34 56 00-0047	EA	51" High Window Gate, Up To 4' Wide Opening.....	242.18	60.20
08 34 56 00-0048	EA	53" High Window Gate, Up To 4' Wide Opening.....	250.77	64.50
08 34 56 00-0049	EA	55" High Window Gate, Up To 4' Wide Opening.....	250.77	64.50
08 34 56 00-0050	EA	57" High Window Gate, Up To 4' Wide Opening.....	259.38	68.80
08 34 56 00-0051	EA	59" High Window Gate, Up To 4' Wide Opening.....	259.38	68.80
08 34 56 00-0052	Pivoting Door Gate, Expands From 2' To 4' (08 34 56)			
Note: Includes padlock hasp and galvanized finish. Excludes padlock.				
08 34 56 00-0053	EA	61" High Pivoting Door Gate, Up To 4' Wide Opening.....	267.98	73.11
08 34 56 00-0054	EA	63" High Pivoting Door Gate, Up To 4' Wide Opening.....	269.60	73.11
08 34 56 00-0055	EA	66" High Pivoting Door Gate, Up To 4' Wide Opening.....	280.36	77.41
08 34 56 00-0056	EA	71" High Pivoting Door Gate, Up To 4' Wide Opening.....	291.11	81.71
08 34 56 00-0057	EA	73" High Pivoting Door Gate, Up To 4' Wide Opening.....	293.26	81.71
08 34 56 00-0058	EA	76" High Pivoting Door Gate, Up To 4' Wide Opening.....	304.01	86.00
08 34 56 00-0059	EA	79" High Pivoting Door Gate, Up To 4' Wide Opening.....	306.16	86.00
08 34 56 00-0060	EA	81" High Pivoting Door Gate, Up To 4' Wide Opening.....	316.25	90.30
08 34 56 00-0061	EA	83" High Pivoting Door Gate, Up To 4' Wide Opening.....	319.07	90.30
08 34 73	Sound Control Door Assemblies (08 34)			
08 34 73 13	Metal Sound Control Door Assemblies (08 34 73)			
08 34 73 13-0001	Steel Acoustical Door Assembly (08 34 73 13)			
Note: Includes seal.				
08 34 73 13-0002	Steel Acoustical Doors (08 34 73 13-0001)			
Note: Includes hinges.				
08 34 73 13-0003	EA	3' x 7', 14 Gauge, STC 50, Steel Acoustical Door (Unrated).....	2,040.91	54.26
For 60 Minutes Fire Rated, Add			116.72	
For 3" x 33" Vision Lite, Add			811.07	
For 20" x 64" Vision Lite, Add			867.93	
08 34 73 13-0004	EA	3'-6" x 7', 14 Gauge, STC 52, Steel Acoustical Door (Unrated).....	2,162.16	56.51
For 60 Minutes Fire Rated, Add			116.72	
For 3" x 33" Vision Lite, Add			811.07	
For 20" x 64" Vision Lite, Add			867.93	
08 34 73 13-0005	EA	4' x 7', 14 Gauge, STC 53, Steel Acoustical Door (Unrated).....	2,287.92	61.04
For 60 Minutes Fire Rated, Add			116.72	
For 3" x 33" Vision Lite, Add			811.07	
For 20" x 64" Vision Lite, Add			867.93	
08 34 73 13-0006	PR	Pair 3' x 7', 14 Gauge, STC 50, Steel Acoustical Doors (Unrated)	4,070.96	103.09
For 1 Hour Fire Rated, Add			233.44	
For 3" x 33" Windows, Add			1,622.14	
For 20" x 64" Windows, Add			1,735.86	
08 34 73 13-0007	Steel Acoustical Door Frames (08 34 73 13-0001)			
08 34 73 13-0008	EA	3' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	1,695.24	90.43
08 34 73 13-0009	EA	3' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	1,738.14	90.43
08 34 73 13-0010	EA	3' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	1,781.04	90.43
08 34 73 13-0011	EA	3' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	1,823.94	90.43
08 34 73 13-0012	EA	3'-6" x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	1,936.80	99.47
08 34 73 13-0013	EA	3'-6" x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	1,984.69	99.47
08 34 73 13-0014	EA	3'-6" x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,027.58	99.47
08 34 73 13-0015	EA	3'-6" x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,080.79	99.47
08 34 73 13-0016	EA	4' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,180.28	103.99
08 34 73 13-0017	EA	4' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,223.18	103.99
08 34 73 13-0018	EA	4' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,266.08	103.99
08 34 73 13-0019	EA	4' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,313.96	103.99
08 34 73 13-0020	EA	6' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion	3,824.56	117.55
08 34 73 13-0021	EA	6' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion	3,865.46	117.55

08	Openings
08 30	Specialty Doors And Frames
08 34	Special Function Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 34 73 13-0022	EA		6' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion.....	3,909.36	117.55
08 34 73 13-0023	EA		6' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion.....	3,954.25	117.55

08 34 73 16 Wood Sound Control Door Assemblies (08 34 73)
08 34 73 16-0001 Wood Acoustical Door Assembly (08 34 73 16)

Note: Includes the prefinished door, frame, hinges and seals.

08 34 73 16-0002	EA		3' x 7', STC 41, Wood Acoustical Door System (Unrated)	2,099.09	162.77
08 34 73 16-0003	EA		3' x 7', STC 49, Wood Acoustical Door System (Unrated)	2,847.31	162.77

08 60 Roof Windows And Skylights (08)

Note: Includes hardware, caulk, sealant and necessary anchors.

08 62 Unit Skylights (08 60)
08 62 23 Tubular Skylights (08 62)
08 62 23 00-0001 Aluminum Framed Solar Tube Skylights (08 62 23)

Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.

08 62 23 00-0002 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights (08 62 23 00-0001)

08 62 23 00-0003	EA		2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	754.11	161.55
			For Class 3 Hail Rated, Add	4.00	
			For Polycarbonate Diffuser Lens, Add	7.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	20.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
			For Single Blade Louver, Add	492.31	
08 62 23 00-0004	EA		3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	792.19	165.59
			For Class 3 Hail Rated, Add	4.00	
			For Polycarbonate Diffuser Lens, Add	7.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	20.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
			For Single Blade Louver, Add	493.12	
08 62 23 00-0005	EA		4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	829.27	169.63
			For Class 3 Hail Rated, Add	4.00	
			For Polycarbonate Diffuser Lens, Add	7.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	20.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
			For Single Blade Louver, Add	493.93	
08 62 23 00-0006	EA		5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	880.34	173.68
			For Class 3 Hail Rated, Add	4.00	
			For Polycarbonate Diffuser Lens, Add	7.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	20.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
			For Single Blade Louver, Add	494.73	
08 62 23 00-0007	EA		6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	925.42	177.72
			For Class 3 Hail Rated, Add	4.00	
			For Polycarbonate Diffuser Lens, Add	7.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	20.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
			For Single Blade Louver, Add	495.54	
08 62 23 00-0008	EA		7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	962.51	181.75
			For Class 3 Hail Rated, Add	4.00	
			For Polycarbonate Diffuser Lens, Add	7.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	20.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
			For Single Blade Louver, Add	496.35	



		Openings	08
		Roof Windows And Skylights	08 60
		Unit Skylights	08 62

08

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
08 62 23 00-0009	EA 8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	999.58		185.79
08 62 23 00-0010	EA 9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,058.66		189.83
08 62 23 00-0011	EA 10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,095.73		193.87
08 62 23 00-0012	EA 11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,133.82		197.90
08 62 23 00-0013	EA 12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,170.89		201.94
08 62 23 00-0014	EA 13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,229.97		205.99
08 62 23 00-0015	EA 14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,267.04		210.03
08 62 23 00-0016	EA 15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,304.13		214.06
08 62 23 00-0017	EA 16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight..... <i>For Class 3 Hail Rated, Add</i> <i>For Polycarbonate Diffuser Lens, Add</i> <i>For High Velocity Hurricane Zone Rated, Add</i> <i>For FM Approved, Add</i> <i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i> <i>For Single Blade Louver, Add</i>	1,341.20		218.10
08 62 23 00-0018	31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights (08 62 23 00-0001)			

08 Openings**08 60 Roof Windows And Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0019	EA		2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	889.11	161.55
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	492.31	
08 62 23 00-0020	EA		3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	940.19	165.59
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	493.12	
08 62 23 00-0021	EA		4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	991.27	169.63
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	493.93	
08 62 23 00-0022	EA		5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,042.34	173.68
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	494.73	
08 62 23 00-0023	EA		6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,123.42	177.72
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	495.54	
08 62 23 00-0024	EA		7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,174.51	181.75
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	496.35	
08 62 23 00-0025	EA		8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,225.58	185.79
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	497.16	
08 62 23 00-0026	EA		9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,306.66	189.83
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	497.97	
08 62 23 00-0027	EA		10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,357.73	193.87
			For Class 3 Hail Rated, Add	5.00	
			For Polycarbonate Diffuser Lens, Add	8.00	
			For High Velocity Hurricane Zone Rated, Add	14.00	
			For FM Approved, Add	22.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	50.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	86.00	
			For Single Blade Louver, Add	498.77	



Openings			08	08
Roof Windows And Skylights			08 60	
Unit Skylights			08 62	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0028	EA	11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,408.82	197.90
		For Class 3 Hail Rated, Add		5.00	
		For Polycarbonate Diffuser Lens, Add		8.00	
		For High Velocity Hurricane Zone Rated, Add		14.00	
		For FM Approved, Add		22.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		50.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		86.00	
		For Single Blade Louver, Add		499.58	
08 62 23 00-0029	EA	12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,459.89	201.94
		For Class 3 Hail Rated, Add		5.00	
		For Polycarbonate Diffuser Lens, Add		8.00	
		For High Velocity Hurricane Zone Rated, Add		14.00	
		For FM Approved, Add		22.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		50.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		86.00	
		For Single Blade Louver, Add		500.39	
08 62 23 00-0030	EA	13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,540.97	205.99
		For Class 3 Hail Rated, Add		5.00	
		For Polycarbonate Diffuser Lens, Add		8.00	
		For High Velocity Hurricane Zone Rated, Add		14.00	
		For FM Approved, Add		22.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		50.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		86.00	
		For Single Blade Louver, Add		501.20	
08 62 23 00-0031	EA	14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,592.04	210.03
		For Class 3 Hail Rated, Add		5.00	
		For Polycarbonate Diffuser Lens, Add		8.00	
		For High Velocity Hurricane Zone Rated, Add		14.00	
		For FM Approved, Add		22.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		50.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		86.00	
		For Single Blade Louver, Add		502.00	
08 62 23 00-0032	EA	15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,643.13	214.06
		For Class 3 Hail Rated, Add		5.00	
		For Polycarbonate Diffuser Lens, Add		8.00	
		For High Velocity Hurricane Zone Rated, Add		14.00	
		For FM Approved, Add		22.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		50.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		86.00	
		For Single Blade Louver, Add		502.81	
08 62 23 00-0033	EA	16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,694.20	218.10
		For Class 3 Hail Rated, Add		5.00	
		For Polycarbonate Diffuser Lens, Add		8.00	
		For High Velocity Hurricane Zone Rated, Add		14.00	
		For FM Approved, Add		22.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		50.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		86.00	
		For Single Blade Louver, Add		503.62	
08 62 23 00-0034		55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights (08 62 23 00-0001)			
08 62 23 00-0035	EA	2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,162.51	181.75
		For Class 3 Hail Rated, Add		10.00	
		For Polycarbonate Diffuser Lens, Add		14.00	
		For High Velocity Hurricane Zone Rated, Add		22.00	
		For FM Approved, Add		36.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		95.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		145.00	
		For Single Blade Louver, Add		496.35	
08 62 23 00-0036	EA	3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,232.58	185.79
		For Class 3 Hail Rated, Add		10.00	
		For Polycarbonate Diffuser Lens, Add		14.00	
		For High Velocity Hurricane Zone Rated, Add		22.00	
		For FM Approved, Add		36.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		95.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		145.00	
		For Single Blade Louver, Add		497.16	
08 62 23 00-0037	EA	4' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		1,303.66	189.83
		For Class 3 Hail Rated, Add		10.00	
		For Polycarbonate Diffuser Lens, Add		14.00	
		For High Velocity Hurricane Zone Rated, Add		22.00	
		For FM Approved, Add		36.00	
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add		95.00	
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add		145.00	
		For Single Blade Louver, Add		497.97	

08 Openings**08 60 Roof Windows And Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0038	EA		5' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,373.73	193.87
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	498.77	
08 62 23 00-0039	EA		6' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,483.82	197.90
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	499.58	
08 62 23 00-0040	EA		7' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,553.89	201.94
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	500.39	
08 62 23 00-0041	EA		8' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,623.97	205.99
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	501.20	
08 62 23 00-0042	EA		9' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,735.04	210.03
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	502.00	
08 62 23 00-0043	EA		10' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,805.13	214.06
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	502.81	
08 62 23 00-0044	EA		11' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,875.20	218.10
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	503.62	
08 62 23 00-0045	EA		12' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,945.28	222.14
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	504.43	
08 62 23 00-0046	EA		13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,055.35	226.18
			For Class 3 Hail Rated, Add	10.00	
			For Polycarbonate Diffuser Lens, Add	14.00	
			For High Velocity Hurricane Zone Rated, Add	22.00	
			For FM Approved, Add	36.00	
			For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00	
			For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00	
			For Single Blade Louver, Add	505.24	



Openings			08
Roof Windows And Skylights			08 60
Unit Skylights			08 62

08

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
08 62 23 00-0047	EA	14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,125.44		230.21
		For Class 3 Hail Rated, Add	10.00		
		For Polycarbonate Diffuser Lens, Add	14.00		
		For High Velocity Hurricane Zone Rated, Add	22.00		
		For FM Approved, Add	36.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00		
		For Single Blade Louver, Add	506.04		
08 62 23 00-0048	EA	15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,196.51		234.25
		For Class 3 Hail Rated, Add	10.00		
		For Polycarbonate Diffuser Lens, Add	14.00		
		For High Velocity Hurricane Zone Rated, Add	22.00		
		For FM Approved, Add	36.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00		
		For Single Blade Louver, Add	506.85		
08 62 23 00-0049	EA	16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,266.59		238.30
		For Class 3 Hail Rated, Add	10.00		
		For Polycarbonate Diffuser Lens, Add	14.00		
		For High Velocity Hurricane Zone Rated, Add	22.00		
		For FM Approved, Add	36.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	95.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	145.00		
		For Single Blade Louver, Add	507.66		

08 63 Metal-Framed Skylights (08 60)

08 63 13 Domed Metal-Framed Skylights (08 63)

- 08 63 13 00-0001 Aluminum Framed Skylights (08 63 13)
- 08 63 13 00-0002 Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0001)
- 08 63 13 00-0003 Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)
- 08 63 13 00-0004 Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)

Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.

08 63 13 00-0005	EA	27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	284.55	80.78
08 63 13 00-0006	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	319.55	80.78
08 63 13 00-0007	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	422.75	90.87
08 63 13 00-0008	EA	27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	476.94	100.97
08 63 13 00-0009	EA	39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	337.55	80.78
08 63 13 00-0010	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	409.75	90.87
08 63 13 00-0011	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	431.75	90.87
08 63 13 00-0012	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	494.94	100.97
08 63 13 00-0013	EA	39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	573.14	111.07
08 63 13 00-0014	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	413.75	90.87
08 63 13 00-0015	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	457.94	100.97
08 63 13 00-0016	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	499.94	100.97
08 63 13 00-0017	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	550.14	111.07
08 63 13 00-0018	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	608.34	121.17
08 63 13 00-0019	EA	52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	681.52	131.27
08 63 13 00-0020	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	487.94	100.97
08 63 13 00-0021	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	537.14	111.07
08 63 13 00-0022	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	609.34	121.17
08 63 13 00-0023	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	635.34	121.17
08 63 13 00-0024	EA	63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	728.52	131.27

08 Openings**08 60 Roof Windows And Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0025	Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)			
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.				
08 63 13 00-0026	EA	27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	334.55	80.78
08 63 13 00-0027	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	368.55	80.78
08 63 13 00-0028	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	461.75	90.87
08 63 13 00-0029	EA	27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	516.94	100.97
08 63 13 00-0030	EA	39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	373.55	80.78
08 63 13 00-0031	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	437.75	90.87
08 63 13 00-0032	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	461.75	90.87
08 63 13 00-0033	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	528.94	100.97
08 63 13 00-0034	EA	39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	593.14	111.07
08 63 13 00-0035	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	441.75	90.87
08 63 13 00-0036	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	489.94	100.97
08 63 13 00-0037	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	516.94	100.97
08 63 13 00-0038	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	569.14	111.07
08 63 13 00-0039	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	618.34	121.17
08 63 13 00-0040	EA	52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	692.52	131.27
08 63 13 00-0041	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	520.94	100.97
08 63 13 00-0042	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	573.14	111.07
08 63 13 00-0043	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	630.34	121.17
08 63 13 00-0044	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	658.34	121.17
08 63 13 00-0045	EA	63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	743.52	131.27
08 63 13 00-0046	High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)			
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.				
08 63 13 00-0047	EA	27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	338.55	80.78
08 63 13 00-0048	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	376.55	80.78
08 63 13 00-0049	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	472.75	90.87
08 63 13 00-0050	EA	39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	383.55	80.78
08 63 13 00-0051	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	451.75	90.87
08 63 13 00-0052	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	472.75	90.87
08 63 13 00-0053	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	540.94	100.97
08 63 13 00-0054	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	450.75	90.87
08 63 13 00-0055	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	497.94	100.97
08 63 13 00-0056	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	529.94	100.97
08 63 13 00-0057	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	582.14	111.07
08 63 13 00-0058	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	634.34	121.17
08 63 13 00-0059	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	532.94	100.97
08 63 13 00-0060	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	589.14	111.07
08 63 13 00-0061	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	646.34	121.17
08 63 13 00-0062	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	674.34	121.17



Openings			08
Roof Windows And Skylights			08 60
Metal-Framed Skylights			08 63

08

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0063	FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003) Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0064	EA 27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	345.55	80.78
08 63 13 00-0065	EA 27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	387.55	80.78
08 63 13 00-0066	EA 27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	482.75	90.87
08 63 13 00-0067	EA 27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	552.94	100.97
08 63 13 00-0068	EA 39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	393.55	80.78
08 63 13 00-0069	EA 39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	460.75	90.87
08 63 13 00-0070	EA 39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	482.75	90.87
08 63 13 00-0071	EA 39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	555.94	100.97
08 63 13 00-0072	EA 51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	461.75	90.87
08 63 13 00-0073	EA 51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	508.94	100.97
08 63 13 00-0074	EA 51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	543.94	100.97
08 63 13 00-0075	EA 51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	597.14	111.07
08 63 13 00-0076	EA 52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	650.34	121.17
08 63 13 00-0077	EA 63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	547.94	100.97
08 63 13 00-0078	EA 63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	604.14	111.07
08 63 13 00-0079	EA 63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	662.34	121.17
08 63 13 00-0080	EA 63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	692.34	121.17
08 63 13 00-0081	Curb Top Inserts (08 63 13 00-0003) Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb.		
08 63 13 00-0082	Single Glazed, Aluminum Framed Curb Top Inserts (08 63 13 00-0081)		
08 63 13 00-0083	EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	116.78	40.39
08 63 13 00-0084	EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	155.87	45.44
08 63 13 00-0085	EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	253.17	60.58
08 63 13 00-0086	EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	234.07	55.54
08 63 13 00-0087	EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	281.17	60.58
08 63 13 00-0088	Double Glazed, Aluminum Framed Curb Top Inserts (08 63 13 00-0081)		
08 63 13 00-0089	EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	157.78	40.39
08 63 13 00-0090	EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert	234.87	45.44
08 63 13 00-0091	EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert	396.17	60.58
08 63 13 00-0092	EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	386.07	55.54
08 63 13 00-0093	EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	479.17	60.58
08 63 13 00-0094	Triple Glazed, Aluminum Framed Curb Top Inserts (08 63 13 00-0081)		
08 63 13 00-0095	EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	197.78	40.39
08 63 13 00-0096	EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	309.87	45.44
08 63 13 00-0097	EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	572.17	60.58
08 63 13 00-0098	EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	528.07	55.54
08 63 13 00-0099	EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	663.17	60.58
08 63 13 00-0100	Pyramid Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)		
08 63 13 00-0101	Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0100) Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0102	EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	266.55	80.78
08 63 13 00-0103	EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	309.55	80.78

08 Openings**08 60 Roof Windows And Skylights****08 63 Metal-Framed Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0104	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	385.75	90.87
08 63 13 00-0105	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	476.94	100.97
08 63 13 00-0106			Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0100) Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0107	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	344.55	80.78
08 63 13 00-0108	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	389.55	80.78
08 63 13 00-0109	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	458.75	90.87
08 63 13 00-0110	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	543.94	100.97
08 63 13 00-0111			Double Hip Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)		
08 63 13 00-0112			Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111) Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0113	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	303.55	80.78
08 63 13 00-0114	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	392.75	90.87
08 63 13 00-0115	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	460.94	100.97
08 63 13 00-0116	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	371.75	90.87
08 63 13 00-0117	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	392.75	90.87
08 63 13 00-0118	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	472.94	100.97
08 63 13 00-0119	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	552.14	111.07
08 63 13 00-0120	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	430.94	100.97
08 63 13 00-0121	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	460.94	100.97
08 63 13 00-0122	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	514.14	111.07
08 63 13 00-0123	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	564.34	121.17
08 63 13 00-0124	EA		52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	659.52	131.27
08 63 13 00-0125	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	526.14	111.07
08 63 13 00-0126	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	594.34	121.17
08 63 13 00-0127	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	625.34	121.17
08 63 13 00-0128	EA		63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	717.52	131.27
08 63 13 00-0129			Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111) Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0130	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	337.55	80.78
08 63 13 00-0131	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	373.55	80.78
08 63 13 00-0132	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	466.75	90.87
08 63 13 00-0133	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	380.55	80.78
08 63 13 00-0134	EA		39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	426.75	90.87
08 63 13 00-0135	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	445.75	90.87
08 63 13 00-0136	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	466.75	90.87
08 63 13 00-0137	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	535.94	100.97
08 63 13 00-0138	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	446.75	90.87



Openings			08
Roof Windows And Skylights			08 60
Metal-Framed Skylights			08 63

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0139	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	493.94	100.97	
08 63 13 00-0140	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	523.94	100.97	
08 63 13 00-0141	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	575.14	111.07	
08 63 13 00-0142	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	626.34	121.17	
08 63 13 00-0143	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	525.94	100.97	
08 63 13 00-0144	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	582.14	111.07	
08 63 13 00-0145	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	638.34	121.17	
08 63 13 00-0146	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	665.34	121.17	
08 63 13 00-0147		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111) Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.			
08 63 13 00-0148	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	370.55	80.78	
08 63 13 00-0149	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	479.75	90.87	
08 63 13 00-0150	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	456.75	90.87	
08 63 13 00-0151	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	479.75	90.87	
08 63 13 00-0152	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	551.94	100.97	
08 63 13 00-0153	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	505.94	100.97	
08 63 13 00-0154	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	538.94	100.97	
08 63 13 00-0155	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	593.14	111.07	
08 63 13 00-0156	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	642.34	121.17	
08 63 13 00-0157	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	600.14	111.07	
08 63 13 00-0158	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	658.34	121.17	
08 63 13 00-0159	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	687.34	121.17	
08 63 13 00-0160		Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0001)			
08 63 13 00-0161		Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0160) Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing.			
08 63 13 00-0162		Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0161)			
08 63 13 00-0163		10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0162)			
08 63 13 00-0164	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,410.34	121.17	
08 63 13 00-0165	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,319.34	121.17	
08 63 13 00-0166	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,477.34	121.17	
08 63 13 00-0167		25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0162)			
08 63 13 00-0168	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,809.34	121.17	
08 63 13 00-0169	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,722.34	121.17	
08 63 13 00-0170	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,900.34	121.17	
08 63 13 00-0171		30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0162)			
08 63 13 00-0172	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,924.34	121.17	

08 Openings**08 60 Roof Windows And Skylights****08 63 Metal-Framed Skylights**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0173	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,835.34	121.17
08 63 13 00-0174	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,013.34	121.17
08 63 13 00-0175		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0161)		
08 63 13 00-0176		10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0177	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,416.34	121.17
08 63 13 00-0178	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,325.34	121.17
08 63 13 00-0179	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,486.34	121.17
08 63 13 00-0180		25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0181	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,817.34	121.17
08 63 13 00-0182	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,728.34	121.17
08 63 13 00-0183	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,910.34	121.17
08 63 13 00-0184		30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights (08 63 13 00-0175)		
08 63 13 00-0185	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,930.34	121.17
08 63 13 00-0186	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	1,841.34	121.17
08 63 13 00-0187	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,023.34	121.17

08 90 Louvers And Vents (08)**08 91 Louvers (08 90)****08 91 13 Motorized Wall Louvers (08 91)**

08 91 13 00-0001		Motorized Wall Louver Actuator (08 91 13) See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.		
08 91 13 00-0002	EA	115 Volt Actuator For Adjustable Intake Louver	1,138.01	97.87
08 91 13 00-0003	EA	230 Volt Actuator For Adjustable Intake Louver	1,676.81	97.87
08 91 13 00-0004	EA	24 Volt Actuator For Adjustable Intake Louver	1,214.81	97.87
08 91 13 00-0005	EA	115 Volt Hazardous Location Actuator For Adjustable Intake Louver	4,377.41	97.87

08 91 16 Operable Wall Louvers (08 91)

08 91 16 00-0001		Adjustable Intake Wall Louvers (08 91 16) See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.		
08 91 16 00-0002	EA	12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum	298.41	25.90
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	24.66	
		For Clear Lacquer Finish, Add	49.32	
		For Baked Enamel Standard Colors, Add	73.98	
		For Anodized Finish, Add	98.64	
		For Kynar™ Standard Colors Finish, Add	135.63	
08 91 16 00-0003	EA	12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum	372.32	31.66
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	30.90	
		For Clear Lacquer Finish, Add	61.80	
		For Baked Enamel Standard Colors, Add	92.70	
		For Anodized Finish, Add	123.60	
		For Kynar™ Standard Colors Finish, Add	169.95	
08 91 16 00-0004	EA	12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum	440.24	37.42
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	36.54	
		For Clear Lacquer Finish, Add	73.08	
		For Baked Enamel Standard Colors, Add	109.62	
		For Anodized Finish, Add	146.16	
		For Kynar™ Standard Colors Finish, Add	200.97	



		Openings	08	08
		Louvers And Vents	08 90	
		Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0005	EA		12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	514.75	43.18
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	42.84	
			For Clear Lacquer Finish, Add	85.68	
			For Baked Enamel Standard Colors, Add	128.52	
			For Anodized Finish, Add	171.36	
			For Kynar™ Standard Colors Finish, Add	235.62	
08 91 16 00-0006	EA		12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	580.27	48.93
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	48.24	
			For Clear Lacquer Finish, Add	96.48	
			For Baked Enamel Standard Colors, Add	144.72	
			For Anodized Finish, Add	192.96	
			For Kynar™ Standard Colors Finish, Add	265.32	
08 91 16 00-0007	EA		12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	682.37	54.69
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	57.30	
			For Clear Lacquer Finish, Add	114.60	
			For Baked Enamel Standard Colors, Add	171.90	
			For Anodized Finish, Add	229.20	
			For Kynar™ Standard Colors Finish, Add	315.15	
08 91 16 00-0008	EA		12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	776.09	60.45
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	65.52	
			For Clear Lacquer Finish, Add	131.04	
			For Baked Enamel Standard Colors, Add	196.56	
			For Anodized Finish, Add	262.08	
			For Kynar™ Standard Colors Finish, Add	360.36	
08 91 16 00-0009	EA		12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	863.56	69.08
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	72.54	
			For Clear Lacquer Finish, Add	145.08	
			For Baked Enamel Standard Colors, Add	217.62	
			For Anodized Finish, Add	290.16	
			For Kynar™ Standard Colors Finish, Add	398.97	
08 91 16 00-0010	EA		12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	922.47	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	77.28	
			For Clear Lacquer Finish, Add	154.56	
			For Baked Enamel Standard Colors, Add	231.84	
			For Anodized Finish, Add	309.12	
			For Kynar™ Standard Colors Finish, Add	425.04	
08 91 16 00-0011	EA		12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	995.19	80.59
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	83.40	
			For Clear Lacquer Finish, Add	166.80	
			For Baked Enamel Standard Colors, Add	250.20	
			For Anodized Finish, Add	333.60	
			For Kynar™ Standard Colors Finish, Add	458.70	
08 91 16 00-0012	EA		12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,059.49	86.35
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	88.68	
			For Clear Lacquer Finish, Add	177.36	
			For Baked Enamel Standard Colors, Add	266.04	
			For Anodized Finish, Add	354.72	
			For Kynar™ Standard Colors Finish, Add	487.74	
08 91 16 00-0013	EA		12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,140.61	92.11
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	95.64	
			For Clear Lacquer Finish, Add	191.28	
			For Baked Enamel Standard Colors, Add	286.92	
			For Anodized Finish, Add	382.56	
			For Kynar™ Standard Colors Finish, Add	526.02	
08 91 16 00-0014	EA		12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,218.72	97.87
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	102.30	
			For Clear Lacquer Finish, Add	204.60	
			For Baked Enamel Standard Colors, Add	306.90	
			For Anodized Finish, Add	409.20	
			For Kynar™ Standard Colors Finish, Add	562.65	
08 91 16 00-0015	EA		12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,316.99	106.50
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	110.40	
			For Clear Lacquer Finish, Add	220.80	
			For Baked Enamel Standard Colors, Add	331.20	
			For Anodized Finish, Add	441.60	
			For Kynar™ Standard Colors Finish, Add	607.20	
08 91 16 00-0016	EA		12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	1,391.26	115.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	116.10	
			For Clear Lacquer Finish, Add	232.20	
			For Baked Enamel Standard Colors, Add	348.30	
			For Anodized Finish, Add	464.40	
			For Kynar™ Standard Colors Finish, Add	638.55	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0017	EA		18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	336.92	31.66
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	27.36	
			For Clear Lacquer Finish, Add	54.72	
			For Baked Enamel Standard Colors, Add	82.08	
			For Anodized Finish, Add	109.44	
			For Kynar™ Standard Colors Finish, Add	150.48	
08 91 16 00-0018	EA		18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	425.59	40.29
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	34.50	
			For Clear Lacquer Finish, Add	69.00	
			For Baked Enamel Standard Colors, Add	103.50	
			For Anodized Finish, Add	138.00	
			For Kynar™ Standard Colors Finish, Add	189.75	
08 91 16 00-0019	EA		18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	498.31	46.05
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	40.62	
			For Clear Lacquer Finish, Add	81.24	
			For Baked Enamel Standard Colors, Add	121.86	
			For Anodized Finish, Add	162.48	
			For Kynar™ Standard Colors Finish, Add	223.41	
08 91 16 00-0020	EA		18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	620.33	57.56
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	50.52	
			For Clear Lacquer Finish, Add	101.04	
			For Baked Enamel Standard Colors, Add	151.56	
			For Anodized Finish, Add	202.08	
			For Kynar™ Standard Colors Finish, Add	277.86	
08 91 16 00-0021	EA		18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	703.84	63.32
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	57.72	
			For Clear Lacquer Finish, Add	115.44	
			For Baked Enamel Standard Colors, Add	173.16	
			For Anodized Finish, Add	230.88	
			For Kynar™ Standard Colors Finish, Add	317.46	
08 91 16 00-0022	EA		18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	787.36	69.08
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	64.92	
			For Clear Lacquer Finish, Add	129.84	
			For Baked Enamel Standard Colors, Add	194.76	
			For Anodized Finish, Add	259.68	
			For Kynar™ Standard Colors Finish, Add	357.06	
08 91 16 00-0023	EA		18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	886.47	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	73.68	
			For Clear Lacquer Finish, Add	147.36	
			For Baked Enamel Standard Colors, Add	221.04	
			For Anodized Finish, Add	294.72	
			For Kynar™ Standard Colors Finish, Add	405.24	
08 91 16 00-0024	EA		18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	983.54	83.47
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	81.66	
			For Clear Lacquer Finish, Add	163.32	
			For Baked Enamel Standard Colors, Add	244.98	
			For Anodized Finish, Add	326.64	
			For Kynar™ Standard Colors Finish, Add	449.13	
08 91 16 00-0025	EA		18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,062.61	92.11
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	87.84	
			For Clear Lacquer Finish, Add	175.68	
			For Baked Enamel Standard Colors, Add	263.52	
			For Anodized Finish, Add	351.36	
			For Kynar™ Standard Colors Finish, Add	483.12	
08 91 16 00-0026	EA		18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,136.52	97.87
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	94.08	
			For Clear Lacquer Finish, Add	188.16	
			For Baked Enamel Standard Colors, Add	282.24	
			For Anodized Finish, Add	376.32	
			For Kynar™ Standard Colors Finish, Add	517.44	
08 91 16 00-0027	EA		18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,206.24	103.61
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	99.90	
			For Clear Lacquer Finish, Add	199.80	
			For Baked Enamel Standard Colors, Add	299.70	
			For Anodized Finish, Add	399.60	
			For Kynar™ Standard Colors Finish, Add	549.45	
08 91 16 00-0028	EA		18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,295.15	109.37
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	107.64	
			For Clear Lacquer Finish, Add	215.28	
			For Baked Enamel Standard Colors, Add	322.92	
			For Anodized Finish, Add	430.56	
			For Kynar™ Standard Colors Finish, Add	592.02	



		Openings	08	08
		Louvers And Vents	08 90	
		Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0029	EA		18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,381.06 115.08 230.16 345.24 460.32 632.94	115.13
08 91 16 00-0030	EA		18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,487.13 123.96 247.92 371.88 495.84 681.78	123.77
08 91 16 00-0031	EA		18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,569.20 130.44 260.88 391.32 521.76 717.42	132.40
08 91 16 00-0032	EA		24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	378.44 30.36 60.72 91.08 121.44 166.98	37.42
08 91 16 00-0033	EA		24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	479.11 38.70 77.40 116.10 154.80 212.85	46.05
08 91 16 00-0034	EA		24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	591.77 48.24 96.48 144.72 192.96 265.32	54.69
08 91 16 00-0035	EA		24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	699.40 56.70 113.40 170.10 226.80 311.85	66.20
08 91 16 00-0036	EA		24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	790.72 64.68 129.36 194.04 258.72 355.74	71.95
08 91 16 00-0037	EA		24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	886.83 73.14 146.28 219.42 292.56 402.27	77.71
08 91 16 00-0038	EA		24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,006.69 83.40 166.80 250.20 333.60 458.70	86.35
08 91 16 00-0039	EA		24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,111.32 91.56 183.12 274.68 366.24 503.58	97.87
08 91 16 00-0040	EA		24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,190.04 98.28 196.56 294.84 393.12 540.54	103.61

08 Openings**08 90 Louvers And Vents****08 91 Louvers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0041 EA 24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,280.26	115.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.00	
For Clear Lacquer Finish, Add	210.00	
For Baked Enamel Standard Colors, Add	315.00	
For Anodized Finish, Add	420.00	
For Kynar™ Standard Colors Finish, Add	577.50	
08 91 16 00-0042 EA 24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,360.17	120.89
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	111.84	
For Clear Lacquer Finish, Add	223.68	
For Baked Enamel Standard Colors, Add	335.52	
For Anodized Finish, Add	447.36	
For Kynar™ Standard Colors Finish, Add	615.12	
08 91 16 00-0043 EA 24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,467.09	126.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	121.38	
For Clear Lacquer Finish, Add	242.76	
For Baked Enamel Standard Colors, Add	364.14	
For Anodized Finish, Add	485.52	
For Kynar™ Standard Colors Finish, Add	667.59	
08 91 16 00-0044 EA 24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,558.40	132.40
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	129.36	
For Clear Lacquer Finish, Add	258.72	
For Baked Enamel Standard Colors, Add	388.08	
For Anodized Finish, Add	517.44	
For Kynar™ Standard Colors Finish, Add	711.48	
08 91 16 00-0045 EA 24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,674.67	141.03
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	139.26	
For Clear Lacquer Finish, Add	278.52	
For Baked Enamel Standard Colors, Add	417.78	
For Anodized Finish, Add	557.04	
For Kynar™ Standard Colors Finish, Add	765.93	
08 91 16 00-0046 EA 24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	1,762.14	149.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	146.28	
For Clear Lacquer Finish, Add	292.56	
For Baked Enamel Standard Colors, Add	438.84	
For Anodized Finish, Add	585.12	
For Kynar™ Standard Colors Finish, Add	804.54	
08 91 16 00-0047 EA 30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	422.95	43.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	33.66	
For Clear Lacquer Finish, Add	67.32	
For Baked Enamel Standard Colors, Add	100.98	
For Anodized Finish, Add	134.64	
For Kynar™ Standard Colors Finish, Add	185.13	
08 91 16 00-0048 EA 30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	563.33	57.56
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	44.82	
For Clear Lacquer Finish, Add	89.64	
For Baked Enamel Standard Colors, Add	134.46	
For Anodized Finish, Add	179.28	
For Kynar™ Standard Colors Finish, Add	246.51	
08 91 16 00-0049 EA 30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	667.00	66.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	53.46	
For Clear Lacquer Finish, Add	106.92	
For Baked Enamel Standard Colors, Add	160.38	
For Anodized Finish, Add	213.84	
For Kynar™ Standard Colors Finish, Add	294.03	
08 91 16 00-0050 EA 30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	779.67	74.84
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	63.00	
For Clear Lacquer Finish, Add	126.00	
For Baked Enamel Standard Colors, Add	189.00	
For Anodized Finish, Add	252.00	
For Kynar™ Standard Colors Finish, Add	346.50	
08 91 16 00-0051 EA 30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	878.79	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	71.76	
For Clear Lacquer Finish, Add	143.52	
For Baked Enamel Standard Colors, Add	215.28	
For Anodized Finish, Add	287.04	
For Kynar™ Standard Colors Finish, Add	394.68	
08 91 16 00-0052 EA 30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	983.65	89.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	80.52	
For Clear Lacquer Finish, Add	161.04	
For Baked Enamel Standard Colors, Add	241.56	
For Anodized Finish, Add	322.08	
For Kynar™ Standard Colors Finish, Add	442.86	



		Openings	08	08
		Louvers And Vents	08 90	
		Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0053	EA		30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,105.56	94.98
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	91.56	
			For Clear Lacquer Finish, Add	183.12	
			For Baked Enamel Standard Colors, Add	274.68	
			For Anodized Finish, Add	366.24	
			For Kynar™ Standard Colors Finish, Add	503.58	
08 91 16 00-0054	EA		30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,212.84	103.61
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	100.56	
			For Clear Lacquer Finish, Add	201.12	
			For Baked Enamel Standard Colors, Add	301.68	
			For Anodized Finish, Add	402.24	
			For Kynar™ Standard Colors Finish, Add	553.08	
08 91 16 00-0055	EA		30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,299.95	109.37
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	108.12	
			For Clear Lacquer Finish, Add	216.24	
			For Baked Enamel Standard Colors, Add	324.36	
			For Anodized Finish, Add	432.48	
			For Kynar™ Standard Colors Finish, Add	594.66	
08 91 16 00-0056	EA		30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,399.77	120.89
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	115.80	
			For Clear Lacquer Finish, Add	231.60	
			For Baked Enamel Standard Colors, Add	347.40	
			For Anodized Finish, Add	463.20	
			For Kynar™ Standard Colors Finish, Add	636.90	
08 91 16 00-0057	EA		30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,493.24	129.53
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	123.42	
			For Clear Lacquer Finish, Add	246.84	
			For Baked Enamel Standard Colors, Add	370.26	
			For Anodized Finish, Add	493.68	
			For Kynar™ Standard Colors Finish, Add	678.81	
08 91 16 00-0058	EA		30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,606.76	135.27
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	133.62	
			For Clear Lacquer Finish, Add	267.24	
			For Baked Enamel Standard Colors, Add	400.86	
			For Anodized Finish, Add	534.48	
			For Kynar™ Standard Colors Finish, Add	734.91	
08 91 16 00-0059	EA		30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,705.87	141.03
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	142.38	
			For Clear Lacquer Finish, Add	284.76	
			For Baked Enamel Standard Colors, Add	427.14	
			For Anodized Finish, Add	569.52	
			For Kynar™ Standard Colors Finish, Add	783.09	
08 91 16 00-0060	EA		30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,827.54	149.67
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	152.82	
			For Clear Lacquer Finish, Add	305.64	
			For Baked Enamel Standard Colors, Add	458.46	
			For Anodized Finish, Add	611.28	
			For Kynar™ Standard Colors Finish, Add	840.51	
08 91 16 00-0061	EA		30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	1,925.81	158.30
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	160.92	
			For Clear Lacquer Finish, Add	321.84	
			For Baked Enamel Standard Colors, Add	482.76	
			For Anodized Finish, Add	643.68	
			For Kynar™ Standard Colors Finish, Add	885.06	
08 91 16 00-0062	EA		36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	464.47	48.93
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	36.66	
			For Clear Lacquer Finish, Add	73.32	
			For Baked Enamel Standard Colors, Add	109.98	
			For Anodized Finish, Add	146.64	
			For Kynar™ Standard Colors Finish, Add	201.63	
08 91 16 00-0063	EA		36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	626.44	63.32
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	49.98	
			For Clear Lacquer Finish, Add	99.96	
			For Baked Enamel Standard Colors, Add	149.94	
			For Anodized Finish, Add	199.92	
			For Kynar™ Standard Colors Finish, Add	274.89	
08 91 16 00-0064	EA		36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	730.72	71.95
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	58.68	
			For Clear Lacquer Finish, Add	117.36	
			For Baked Enamel Standard Colors, Add	176.04	
			For Anodized Finish, Add	234.72	
			For Kynar™ Standard Colors Finish, Add	322.74	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0065	EA		36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	853.59	80.59
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	69.24	
			For Clear Lacquer Finish, Add	138.48	
			For Baked Enamel Standard Colors, Add	207.72	
			For Anodized Finish, Add	276.96	
			For Kynar™ Standard Colors Finish, Add	380.82	
08 91 16 00-0066	EA		36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	966.40	87.50
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	79.14	
			For Clear Lacquer Finish, Add	158.28	
			For Baked Enamel Standard Colors, Add	237.42	
			For Anodized Finish, Add	316.56	
			For Kynar™ Standard Colors Finish, Add	435.27	
08 91 16 00-0067	EA		36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,073.16	94.98
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	88.32	
			For Clear Lacquer Finish, Add	176.64	
			For Baked Enamel Standard Colors, Add	264.96	
			For Anodized Finish, Add	353.28	
			For Kynar™ Standard Colors Finish, Add	485.76	
08 91 16 00-0068	EA		36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,208.88	100.74
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	100.74	
			For Clear Lacquer Finish, Add	201.48	
			For Baked Enamel Standard Colors, Add	302.22	
			For Anodized Finish, Add	402.96	
			For Kynar™ Standard Colors Finish, Add	554.07	
08 91 16 00-0069	EA		36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,328.75	109.37
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	111.00	
			For Clear Lacquer Finish, Add	222.00	
			For Baked Enamel Standard Colors, Add	333.00	
			For Anodized Finish, Add	444.00	
			For Kynar™ Standard Colors Finish, Add	610.50	
08 91 16 00-0070	EA		36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,427.61	118.01
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	119.16	
			For Clear Lacquer Finish, Add	238.32	
			For Baked Enamel Standard Colors, Add	357.48	
			For Anodized Finish, Add	476.64	
			For Kynar™ Standard Colors Finish, Add	655.38	
08 91 16 00-0071	EA		36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,528.89	126.64
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	127.56	
			For Clear Lacquer Finish, Add	255.12	
			For Baked Enamel Standard Colors, Add	382.68	
			For Anodized Finish, Add	510.24	
			For Kynar™ Standard Colors Finish, Add	701.58	
08 91 16 00-0072	EA		36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,633.16	135.27
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	136.26	
			For Clear Lacquer Finish, Add	272.52	
			For Baked Enamel Standard Colors, Add	408.78	
			For Anodized Finish, Add	545.04	
			For Kynar™ Standard Colors Finish, Add	749.43	
08 91 16 00-0073	EA		36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,756.87	141.03
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	147.48	
			For Clear Lacquer Finish, Add	294.96	
			For Baked Enamel Standard Colors, Add	442.44	
			For Anodized Finish, Add	589.92	
			For Kynar™ Standard Colors Finish, Add	811.14	
08 91 16 00-0074	EA		36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,863.18	146.79
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	156.96	
			For Clear Lacquer Finish, Add	313.92	
			For Baked Enamel Standard Colors, Add	470.88	
			For Anodized Finish, Add	627.84	
			For Kynar™ Standard Colors Finish, Add	863.28	
08 91 16 00-0075	EA		36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,999.85	155.43
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	168.90	
			For Clear Lacquer Finish, Add	337.80	
			For Baked Enamel Standard Colors, Add	506.70	
			For Anodized Finish, Add	675.60	
			For Kynar™ Standard Colors Finish, Add	928.95	
08 91 16 00-0076	EA		36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,103.52	164.06
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	177.54	
			For Clear Lacquer Finish, Add	355.08	
			For Baked Enamel Standard Colors, Add	532.62	
			For Anodized Finish, Add	710.16	
			For Kynar™ Standard Colors Finish, Add	976.47	



		Openings	08	08
		Louvers And Vents	08 90	
		Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0077	EA		42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	530.57	54.69
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	42.12	
			For Clear Lacquer Finish, Add	84.24	
			For Baked Enamel Standard Colors, Add	126.36	
			For Anodized Finish, Add	168.48	
			For Kynar™ Standard Colors Finish, Add	231.66	
08 91 16 00-0078	EA		42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	676.36	69.08
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	53.82	
			For Clear Lacquer Finish, Add	107.64	
			For Baked Enamel Standard Colors, Add	161.46	
			For Anodized Finish, Add	215.28	
			For Kynar™ Standard Colors Finish, Add	296.01	
08 91 16 00-0079	EA		42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	791.43	77.71
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	63.60	
			For Clear Lacquer Finish, Add	127.20	
			For Baked Enamel Standard Colors, Add	190.80	
			For Anodized Finish, Add	254.40	
			For Kynar™ Standard Colors Finish, Add	349.80	
08 91 16 00-0080	EA		42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	924.25	89.22
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	74.58	
			For Clear Lacquer Finish, Add	149.16	
			For Baked Enamel Standard Colors, Add	223.74	
			For Anodized Finish, Add	298.32	
			For Kynar™ Standard Colors Finish, Add	410.19	
08 91 16 00-0081	EA		42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,043.16	94.98
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	85.32	
			For Clear Lacquer Finish, Add	170.64	
			For Baked Enamel Standard Colors, Add	255.96	
			For Anodized Finish, Add	341.28	
			For Kynar™ Standard Colors Finish, Add	469.26	
08 91 16 00-0082	EA		42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,156.08	100.74
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	95.46	
			For Clear Lacquer Finish, Add	190.92	
			For Baked Enamel Standard Colors, Add	286.38	
			For Anodized Finish, Add	381.84	
			For Kynar™ Standard Colors Finish, Add	525.03	
08 91 16 00-0083	EA		42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,303.19	106.50
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	109.02	
			For Clear Lacquer Finish, Add	218.04	
			For Baked Enamel Standard Colors, Add	327.06	
			For Anodized Finish, Add	436.08	
			For Kynar™ Standard Colors Finish, Add	599.61	
08 91 16 00-0084	EA		42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,424.86	115.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	119.46	
			For Clear Lacquer Finish, Add	238.92	
			For Baked Enamel Standard Colors, Add	358.38	
			For Anodized Finish, Add	477.84	
			For Kynar™ Standard Colors Finish, Add	657.03	
08 91 16 00-0085	EA		42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,535.13	123.77
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	128.76	
			For Clear Lacquer Finish, Add	257.52	
			For Baked Enamel Standard Colors, Add	386.28	
			For Anodized Finish, Add	515.04	
			For Kynar™ Standard Colors Finish, Add	708.18	
08 91 16 00-0086	EA		42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,638.80	132.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	137.40	
			For Clear Lacquer Finish, Add	274.80	
			For Baked Enamel Standard Colors, Add	412.20	
			For Anodized Finish, Add	549.60	
			For Kynar™ Standard Colors Finish, Add	755.70	
08 91 16 00-0087	EA		42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,751.47	141.03
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	146.94	
			For Clear Lacquer Finish, Add	293.88	
			For Baked Enamel Standard Colors, Add	440.82	
			For Anodized Finish, Add	587.76	
			For Kynar™ Standard Colors Finish, Add	808.17	
08 91 16 00-0088	EA		42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,884.18	146.79
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	159.06	
			For Clear Lacquer Finish, Add	318.12	
			For Baked Enamel Standard Colors, Add	477.18	
			For Anodized Finish, Add	636.24	
			For Kynar™ Standard Colors Finish, Add	874.83	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0089	EA		42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,000.09	152.55
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	169.50	
			For Clear Lacquer Finish, Add	339.00	
			For Baked Enamel Standard Colors, Add	508.50	
			For Anodized Finish, Add	678.00	
			For Kynar™ Standard Colors Finish, Add	932.25	
08 91 16 00-0090	EA		42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,152.37	161.19
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	183.00	
			For Clear Lacquer Finish, Add	366.00	
			For Baked Enamel Standard Colors, Add	549.00	
			For Anodized Finish, Add	732.00	
			For Kynar™ Standard Colors Finish, Add	1,006.50	
08 91 16 00-0091	EA		42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,260.24	169.82
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	192.06	
			For Clear Lacquer Finish, Add	384.12	
			For Baked Enamel Standard Colors, Add	576.18	
			For Anodized Finish, Add	768.24	
			For Kynar™ Standard Colors Finish, Add	1,056.33	
08 91 16 00-0092	EA		48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	575.09	60.45
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	45.42	
			For Clear Lacquer Finish, Add	90.84	
			For Baked Enamel Standard Colors, Add	136.26	
			For Anodized Finish, Add	181.68	
			For Kynar™ Standard Colors Finish, Add	249.81	
08 91 16 00-0093	EA		48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	729.27	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	57.96	
			For Clear Lacquer Finish, Add	115.92	
			For Baked Enamel Standard Colors, Add	173.88	
			For Anodized Finish, Add	231.84	
			For Kynar™ Standard Colors Finish, Add	318.78	
08 91 16 00-0094	EA		48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	861.49	86.35
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	68.88	
			For Clear Lacquer Finish, Add	137.76	
			For Baked Enamel Standard Colors, Add	206.64	
			For Anodized Finish, Add	275.52	
			For Kynar™ Standard Colors Finish, Add	378.84	
08 91 16 00-0095	EA		48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	995.16	94.98
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	80.52	
			For Clear Lacquer Finish, Add	161.04	
			For Baked Enamel Standard Colors, Add	241.56	
			For Anodized Finish, Add	322.08	
			For Kynar™ Standard Colors Finish, Add	442.86	
08 91 16 00-0096	EA		48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,126.08	100.74
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	92.46	
			For Clear Lacquer Finish, Add	184.92	
			For Baked Enamel Standard Colors, Add	277.38	
			For Anodized Finish, Add	369.84	
			For Kynar™ Standard Colors Finish, Add	508.53	
08 91 16 00-0097	EA		48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,252.79	106.50
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	103.98	
			For Clear Lacquer Finish, Add	207.96	
			For Baked Enamel Standard Colors, Add	311.94	
			For Anodized Finish, Add	415.92	
			For Kynar™ Standard Colors Finish, Add	571.89	
08 91 16 00-0098	EA		48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,411.66	115.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	118.14	
			For Clear Lacquer Finish, Add	236.28	
			For Baked Enamel Standard Colors, Add	354.42	
			For Anodized Finish, Add	472.56	
			For Kynar™ Standard Colors Finish, Add	649.77	
08 91 16 00-0099	EA		48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,544.13	123.77
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	129.66	
			For Clear Lacquer Finish, Add	259.32	
			For Baked Enamel Standard Colors, Add	388.98	
			For Anodized Finish, Add	518.64	
			For Kynar™ Standard Colors Finish, Add	713.13	
08 91 16 00-0100	EA		48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,659.80	132.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	139.50	
			For Clear Lacquer Finish, Add	279.00	
			For Baked Enamel Standard Colors, Add	418.50	
			For Anodized Finish, Add	558.00	
			For Kynar™ Standard Colors Finish, Add	767.25	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0101	EA		48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,777.27 149.52 299.04 448.56 598.08 822.36	141.03
08 91 16 00-0102	EA		48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,892.34 159.30 318.60 477.90 637.20 876.15	149.67
08 91 16 00-0103	EA		48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,041.85 173.10 346.20 519.30 692.40 952.05	155.43
08 91 16 00-0104	EA		48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,166.77 184.44 368.88 553.32 737.76 1,014.42	161.19
08 91 16 00-0105	EA		48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,319.88 198.60 397.20 595.80 794.40 1,092.30	166.94
08 91 16 00-0106	EA		48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,437.95 208.68 417.36 626.04 834.72 1,147.74	175.58
08 91 16 00-0107	EA		54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	666.76 52.86 105.72 158.58 211.44 290.73	69.08
08 91 16 00-0108	EA		54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	850.94 68.40 136.80 205.20 273.60 376.20	83.47
08 91 16 00-0109	EA		54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	997.32 80.16 160.32 240.48 320.64 440.88	97.87
08 91 16 00-0110	EA		54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,139.04 93.18 186.36 279.54 372.72 512.49	103.61
08 91 16 00-0111	EA		54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,292.75 107.40 214.80 322.20 429.60 590.70	109.37
08 91 16 00-0112	EA		54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,430.86 120.06 240.12 360.18 480.24 660.33	115.13

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0113	EA		54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,614.33	123.77
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	136.68	
			For Clear Lacquer Finish, Add	273.36	
			For Baked Enamel Standard Colors, Add	410.04	
			For Anodized Finish, Add	546.72	
			For Kynar™ Standard Colors Finish, Add	751.74	
08 91 16 00-0114	EA		54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,793.00	132.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	152.82	
			For Clear Lacquer Finish, Add	305.64	
			For Baked Enamel Standard Colors, Add	458.46	
			For Anodized Finish, Add	611.28	
			For Kynar™ Standard Colors Finish, Add	840.51	
08 91 16 00-0115	EA		54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,928.47	141.03
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	164.64	
			For Clear Lacquer Finish, Add	329.28	
			For Baked Enamel Standard Colors, Add	493.92	
			For Anodized Finish, Add	658.56	
			For Kynar™ Standard Colors Finish, Add	905.52	
08 91 16 00-0116	EA		54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,062.14	149.67
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	176.28	
			For Clear Lacquer Finish, Add	352.56	
			For Baked Enamel Standard Colors, Add	528.84	
			For Anodized Finish, Add	705.12	
			For Kynar™ Standard Colors Finish, Add	969.54	
08 91 16 00-0117	EA		54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,188.85	155.43
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	187.80	
			For Clear Lacquer Finish, Add	375.60	
			For Baked Enamel Standard Colors, Add	563.40	
			For Anodized Finish, Add	751.20	
			For Kynar™ Standard Colors Finish, Add	1,032.90	
08 91 16 00-0118	EA		54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,355.17	161.19
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	203.28	
			For Clear Lacquer Finish, Add	406.56	
			For Baked Enamel Standard Colors, Add	609.84	
			For Anodized Finish, Add	813.12	
			For Kynar™ Standard Colors Finish, Add	1,118.04	
08 91 16 00-0119	EA		54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,494.48	166.94
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	216.06	
			For Clear Lacquer Finish, Add	432.12	
			For Baked Enamel Standard Colors, Add	648.18	
			For Anodized Finish, Add	864.24	
			For Kynar™ Standard Colors Finish, Add	1,188.33	
08 91 16 00-0120	EA		54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,672.80	172.69
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	232.74	
			For Clear Lacquer Finish, Add	465.48	
			For Baked Enamel Standard Colors, Add	698.22	
			For Anodized Finish, Add	930.96	
			For Kynar™ Standard Colors Finish, Add	1,280.07	
08 91 16 00-0121	EA		54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,809.46	181.33
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	244.68	
			For Clear Lacquer Finish, Add	489.36	
			For Baked Enamel Standard Colors, Add	734.04	
			For Anodized Finish, Add	978.72	
			For Kynar™ Standard Colors Finish, Add	1,345.74	
08 91 16 00-0122	EA		60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	708.87	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	55.92	
			For Clear Lacquer Finish, Add	111.84	
			For Baked Enamel Standard Colors, Add	167.76	
			For Anodized Finish, Add	223.68	
			For Kynar™ Standard Colors Finish, Add	307.56	
08 91 16 00-0123	EA		60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	909.61	92.11
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	72.54	
			For Clear Lacquer Finish, Add	145.08	
			For Baked Enamel Standard Colors, Add	217.62	
			For Anodized Finish, Add	290.16	
			For Kynar™ Standard Colors Finish, Add	398.97	
08 91 16 00-0124	EA		60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,056.84	103.61
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	84.96	
			For Clear Lacquer Finish, Add	169.92	
			For Baked Enamel Standard Colors, Add	254.88	
			For Anodized Finish, Add	339.84	
			For Kynar™ Standard Colors Finish, Add	467.28	



		Openings	08	08
		Louvers And Vents	08 90	
		Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0125	EA		60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,212.35 99.36 198.72 298.08 397.44 546.48	109.37
08 91 16 00-0126	EA		60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,377.21 114.12 228.24 342.36 456.48 627.66	118.01
08 91 16 00-0127	EA		60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,523.13 127.56 255.12 382.68 510.24 701.58	123.77
08 91 16 00-0128	EA		60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,719.20 145.44 290.88 436.32 581.76 799.92	132.40
08 91 16 00-0129	EA		60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,902.67 162.06 324.12 486.18 648.24 891.33	141.03
08 91 16 00-0130	EA		60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,047.14 174.78 349.56 524.34 699.12 961.29	149.67
08 91 16 00-0131	EA		60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,189.21 187.26 374.52 561.78 749.04 1,029.93	158.30
08 91 16 00-0132	EA		60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,323.72 199.56 399.12 598.68 798.24 1,097.58	164.06
08 91 16 00-0133	EA		60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,503.84 216.42 432.84 649.26 865.68 1,190.31	169.82
08 91 16 00-0134	EA		60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,649.75 229.86 459.72 689.58 919.44 1,264.23	175.58
08 91 16 00-0135	EA		60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,837.06 247.44 494.88 742.32 989.76 1,360.92	181.33
08 91 16 00-0136	EA		60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,975.77 260.16 520.32 780.48 1,040.64 1,430.88	187.09

08 91 16 00-0137 Adjustable Intake Wall Louvers Operators (08 91 16)

08	Openings
08 90	Louvers And Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0138	EA		5' Chain Actuator For Adjustable Intake Louver.....	187.16	28.79
08 91 16 00-0139	EA		Panel Crank For Adjustable Intake Louver	369.83	11.51
08 91 19 Fixed Louvers (08 91)					
08 91 19 00-0001 Fixed Intake Wall Louvers (08 91 19)					
08 91 19 00-0002	EA		12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	233.01	25.90
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	18.12	
			For Clear Lacquer Finish, Add	36.24	
			For Baked Enamel Standard Colors, Add	54.36	
			For Anodized Finish, Add	72.48	
			For Kynar™ Standard Colors Finish, Add	99.66	
08 91 19 00-0003	EA		12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	277.52	31.66
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	21.42	
			For Clear Lacquer Finish, Add	42.84	
			For Baked Enamel Standard Colors, Add	64.26	
			For Anodized Finish, Add	85.68	
			For Kynar™ Standard Colors Finish, Add	117.81	
08 91 19 00-0004	EA		12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	322.64	37.42
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	24.78	
			For Clear Lacquer Finish, Add	49.56	
			For Baked Enamel Standard Colors, Add	74.34	
			For Anodized Finish, Add	99.12	
			For Kynar™ Standard Colors Finish, Add	136.29	
08 91 19 00-0005	EA		12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	377.95	43.18
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	29.16	
			For Clear Lacquer Finish, Add	58.32	
			For Baked Enamel Standard Colors, Add	87.48	
			For Anodized Finish, Add	116.64	
			For Kynar™ Standard Colors Finish, Add	160.38	
08 91 19 00-0006	EA		12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	425.47	48.93
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	32.76	
			For Clear Lacquer Finish, Add	65.52	
			For Baked Enamel Standard Colors, Add	98.28	
			For Anodized Finish, Add	131.04	
			For Kynar™ Standard Colors Finish, Add	180.18	
08 91 19 00-0007	EA		12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	499.37	54.69
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	39.00	
			For Clear Lacquer Finish, Add	78.00	
			For Baked Enamel Standard Colors, Add	117.00	
			For Anodized Finish, Add	156.00	
			For Kynar™ Standard Colors Finish, Add	214.50	
08 91 19 00-0008	EA		12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	542.09	60.45
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	42.12	
			For Clear Lacquer Finish, Add	84.24	
			For Baked Enamel Standard Colors, Add	126.36	
			For Anodized Finish, Add	168.48	
			For Kynar™ Standard Colors Finish, Add	231.66	
08 91 19 00-0009	EA		12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	607.36	69.08
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	46.92	
			For Clear Lacquer Finish, Add	93.84	
			For Baked Enamel Standard Colors, Add	140.76	
			For Anodized Finish, Add	187.68	
			For Kynar™ Standard Colors Finish, Add	258.06	
08 91 19 00-0010	EA		12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	647.07	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	49.74	
			For Clear Lacquer Finish, Add	99.48	
			For Baked Enamel Standard Colors, Add	149.22	
			For Anodized Finish, Add	198.96	
			For Kynar™ Standard Colors Finish, Add	273.57	
08 91 19 00-0011	EA		12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	699.39	80.59
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	53.82	
			For Clear Lacquer Finish, Add	107.64	
			For Baked Enamel Standard Colors, Add	161.46	
			For Anodized Finish, Add	215.28	
			For Kynar™ Standard Colors Finish, Add	296.01	
08 91 19 00-0012	EA		12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	745.69	86.35
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	57.30	
			For Clear Lacquer Finish, Add	114.60	
			For Baked Enamel Standard Colors, Add	171.90	
			For Anodized Finish, Add	229.20	
			For Kynar™ Standard Colors Finish, Add	315.15	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0013	EA		12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	799.81	92.11
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	61.56	
			For Clear Lacquer Finish, Add	123.12	
			For Baked Enamel Standard Colors, Add	184.68	
			For Anodized Finish, Add	246.24	
			For Kynar™ Standard Colors Finish, Add	338.58	
08 91 19 00-0014	EA		12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	850.92	97.87
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	65.52	
			For Clear Lacquer Finish, Add	131.04	
			For Baked Enamel Standard Colors, Add	196.56	
			For Anodized Finish, Add	262.08	
			For Kynar™ Standard Colors Finish, Add	360.36	
08 91 19 00-0015	EA		12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	899.39	106.50
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	68.64	
			For Clear Lacquer Finish, Add	137.28	
			For Baked Enamel Standard Colors, Add	205.92	
			For Anodized Finish, Add	274.56	
			For Kynar™ Standard Colors Finish, Add	377.52	
08 91 19 00-0016	EA		12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	961.66	115.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	73.14	
			For Clear Lacquer Finish, Add	146.28	
			For Baked Enamel Standard Colors, Add	219.42	
			For Anodized Finish, Add	292.56	
			For Kynar™ Standard Colors Finish, Add	402.27	
08 91 19 00-0017	EA		18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	272.12	31.66
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	20.88	
			For Clear Lacquer Finish, Add	41.76	
			For Baked Enamel Standard Colors, Add	62.64	
			For Anodized Finish, Add	83.52	
			For Kynar™ Standard Colors Finish, Add	114.84	
08 91 19 00-0018	EA		18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	328.39	40.29
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	24.78	
			For Clear Lacquer Finish, Add	49.56	
			For Baked Enamel Standard Colors, Add	74.34	
			For Anodized Finish, Add	99.12	
			For Kynar™ Standard Colors Finish, Add	136.29	
08 91 19 00-0019	EA		18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	380.11	46.05
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	28.80	
			For Clear Lacquer Finish, Add	57.60	
			For Baked Enamel Standard Colors, Add	86.40	
			For Anodized Finish, Add	115.20	
			For Kynar™ Standard Colors Finish, Add	158.40	
08 91 19 00-0020	EA		18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	476.33	57.56
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	36.12	
			For Clear Lacquer Finish, Add	72.24	
			For Baked Enamel Standard Colors, Add	108.36	
			For Anodized Finish, Add	144.48	
			For Kynar™ Standard Colors Finish, Add	198.66	
08 91 19 00-0021	EA		18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	544.24	63.32
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	41.76	
			For Clear Lacquer Finish, Add	83.52	
			For Baked Enamel Standard Colors, Add	125.28	
			For Anodized Finish, Add	167.04	
			For Kynar™ Standard Colors Finish, Add	229.68	
08 91 19 00-0022	EA		18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	604.96	69.08
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	46.68	
			For Clear Lacquer Finish, Add	93.36	
			For Baked Enamel Standard Colors, Add	140.04	
			For Anodized Finish, Add	186.72	
			For Kynar™ Standard Colors Finish, Add	256.74	
08 91 19 00-0023	EA		18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	649.47	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	49.98	
			For Clear Lacquer Finish, Add	99.96	
			For Baked Enamel Standard Colors, Add	149.94	
			For Anodized Finish, Add	199.92	
			For Kynar™ Standard Colors Finish, Add	274.89	
08 91 19 00-0024	EA		18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	723.14	83.47
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	55.62	
			For Clear Lacquer Finish, Add	111.24	
			For Baked Enamel Standard Colors, Add	166.86	
			For Anodized Finish, Add	222.48	
			For Kynar™ Standard Colors Finish, Add	305.91	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0025	EA		18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	777.01	92.11
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	59.28	
			For Clear Lacquer Finish, Add	118.56	
			For Baked Enamel Standard Colors, Add	177.84	
			For Anodized Finish, Add	237.12	
			For Kynar™ Standard Colors Finish, Add	326.04	
08 91 19 00-0026	EA		18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	842.52	97.87
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	64.68	
			For Clear Lacquer Finish, Add	129.36	
			For Baked Enamel Standard Colors, Add	194.04	
			For Anodized Finish, Add	258.72	
			For Kynar™ Standard Colors Finish, Add	355.74	
08 91 19 00-0027	EA		18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	893.64	103.61
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	68.64	
			For Clear Lacquer Finish, Add	137.28	
			For Baked Enamel Standard Colors, Add	205.92	
			For Anodized Finish, Add	274.56	
			For Kynar™ Standard Colors Finish, Add	377.52	
08 91 19 00-0028	EA		18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	950.15	109.37
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	73.14	
			For Clear Lacquer Finish, Add	146.28	
			For Baked Enamel Standard Colors, Add	219.42	
			For Anodized Finish, Add	292.56	
			For Kynar™ Standard Colors Finish, Add	402.27	
08 91 19 00-0029	EA		18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,009.06	115.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	77.88	
			For Clear Lacquer Finish, Add	155.76	
			For Baked Enamel Standard Colors, Add	233.64	
			For Anodized Finish, Add	311.52	
			For Kynar™ Standard Colors Finish, Add	428.34	
08 91 19 00-0030	EA		18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,064.13	123.77
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	81.66	
			For Clear Lacquer Finish, Add	163.32	
			For Baked Enamel Standard Colors, Add	244.98	
			For Anodized Finish, Add	326.64	
			For Kynar™ Standard Colors Finish, Add	449.13	
08 91 19 00-0031	EA		18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,137.80	132.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	87.30	
			For Clear Lacquer Finish, Add	174.60	
			For Baked Enamel Standard Colors, Add	261.90	
			For Anodized Finish, Add	349.20	
			For Kynar™ Standard Colors Finish, Add	480.15	
08 91 19 00-0032	EA		24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	315.44	37.42
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	24.06	
			For Clear Lacquer Finish, Add	48.12	
			For Baked Enamel Standard Colors, Add	72.18	
			For Anodized Finish, Add	96.24	
			For Kynar™ Standard Colors Finish, Add	132.33	
08 91 19 00-0033	EA		24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	377.11	46.05
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	28.50	
			For Clear Lacquer Finish, Add	57.00	
			For Baked Enamel Standard Colors, Add	85.50	
			For Anodized Finish, Add	114.00	
			For Kynar™ Standard Colors Finish, Add	156.75	
08 91 19 00-0034	EA		24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	465.17	54.69
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	35.58	
			For Clear Lacquer Finish, Add	71.16	
			For Baked Enamel Standard Colors, Add	106.74	
			For Anodized Finish, Add	142.32	
			For Kynar™ Standard Colors Finish, Add	195.69	
08 91 19 00-0035	EA		24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	550.00	66.20
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	41.76	
			For Clear Lacquer Finish, Add	83.52	
			For Baked Enamel Standard Colors, Add	125.28	
			For Anodized Finish, Add	167.04	
			For Kynar™ Standard Colors Finish, Add	229.68	
08 91 19 00-0036	EA		24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	626.32	71.95
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	48.24	
			For Clear Lacquer Finish, Add	96.48	
			For Baked Enamel Standard Colors, Add	144.72	
			For Anodized Finish, Add	192.96	
			For Kynar™ Standard Colors Finish, Add	265.32	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0037	EA		24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	697.23	77.71
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	54.18	
			For Clear Lacquer Finish, Add	108.36	
			For Baked Enamel Standard Colors, Add	162.54	
			For Anodized Finish, Add	216.72	
			For Kynar™ Standard Colors Finish, Add	297.99	
08 91 19 00-0038	EA		24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	759.49	86.35
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	58.68	
			For Clear Lacquer Finish, Add	117.36	
			For Baked Enamel Standard Colors, Add	176.04	
			For Anodized Finish, Add	234.72	
			For Kynar™ Standard Colors Finish, Add	322.74	
08 91 19 00-0039	EA		24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	842.52	97.87
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	64.68	
			For Clear Lacquer Finish, Add	129.36	
			For Baked Enamel Standard Colors, Add	194.04	
			For Anodized Finish, Add	258.72	
			For Kynar™ Standard Colors Finish, Add	355.74	
08 91 19 00-0040	EA		24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	896.04	103.61
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	68.88	
			For Clear Lacquer Finish, Add	137.76	
			For Baked Enamel Standard Colors, Add	206.64	
			For Anodized Finish, Add	275.52	
			For Kynar™ Standard Colors Finish, Add	378.84	
08 91 19 00-0041	EA		24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	985.66	115.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	75.54	
			For Clear Lacquer Finish, Add	151.08	
			For Baked Enamel Standard Colors, Add	226.62	
			For Anodized Finish, Add	302.16	
			For Kynar™ Standard Colors Finish, Add	415.47	
08 91 19 00-0042	EA		24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,040.97	120.89
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	79.92	
			For Clear Lacquer Finish, Add	159.84	
			For Baked Enamel Standard Colors, Add	239.76	
			For Anodized Finish, Add	319.68	
			For Kynar™ Standard Colors Finish, Add	439.56	
08 91 19 00-0043	EA		24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,111.29	126.64
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	85.80	
			For Clear Lacquer Finish, Add	171.60	
			For Baked Enamel Standard Colors, Add	257.40	
			For Anodized Finish, Add	343.20	
			For Kynar™ Standard Colors Finish, Add	471.90	
08 91 19 00-0044	EA		24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,180.40	132.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	91.56	
			For Clear Lacquer Finish, Add	183.12	
			For Baked Enamel Standard Colors, Add	274.68	
			For Anodized Finish, Add	366.24	
			For Kynar™ Standard Colors Finish, Add	503.58	
08 91 19 00-0045	EA		24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,236.67	141.03
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	95.46	
			For Clear Lacquer Finish, Add	190.92	
			For Baked Enamel Standard Colors, Add	286.38	
			For Anodized Finish, Add	381.84	
			For Kynar™ Standard Colors Finish, Add	525.03	
08 91 19 00-0046	EA		24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,324.74	149.67
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	102.54	
			For Clear Lacquer Finish, Add	205.08	
			For Baked Enamel Standard Colors, Add	307.62	
			For Anodized Finish, Add	410.16	
			For Kynar™ Standard Colors Finish, Add	563.97	
08 91 19 00-0047	EA		30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	354.55	43.18
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	26.82	
			For Clear Lacquer Finish, Add	53.64	
			For Baked Enamel Standard Colors, Add	80.46	
			For Anodized Finish, Add	107.28	
			For Kynar™ Standard Colors Finish, Add	147.51	
08 91 19 00-0048	EA		30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	460.13	57.56
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	34.50	
			For Clear Lacquer Finish, Add	69.00	
			For Baked Enamel Standard Colors, Add	103.50	
			For Anodized Finish, Add	138.00	
			For Kynar™ Standard Colors Finish, Add	189.75	

08 Openings**08 90 Louvers And Vents****08 91 Louvers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0049	EA		30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	536.20	66.20
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	40.38	
			For Clear Lacquer Finish, Add	80.76	
			For Baked Enamel Standard Colors, Add	121.14	
			For Anodized Finish, Add	161.52	
			For Kynar™ Standard Colors Finish, Add	222.09	
08 91 19 00-0050	EA		30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	623.67	74.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	47.40	
			For Clear Lacquer Finish, Add	94.80	
			For Baked Enamel Standard Colors, Add	142.20	
			For Anodized Finish, Add	189.60	
			For Kynar™ Standard Colors Finish, Add	260.70	
08 91 19 00-0051	EA		30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	714.39	80.59
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	55.32	
			For Clear Lacquer Finish, Add	110.64	
			For Baked Enamel Standard Colors, Add	165.96	
			For Anodized Finish, Add	221.28	
			For Kynar™ Standard Colors Finish, Add	304.26	
08 91 19 00-0052	EA		30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	794.05	89.22
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	61.56	
			For Clear Lacquer Finish, Add	123.12	
			For Baked Enamel Standard Colors, Add	184.68	
			For Anodized Finish, Add	246.24	
			For Kynar™ Standard Colors Finish, Add	338.58	
08 91 19 00-0053	EA		30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	852.96	94.98
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	66.30	
			For Clear Lacquer Finish, Add	132.60	
			For Baked Enamel Standard Colors, Add	198.90	
			For Anodized Finish, Add	265.20	
			For Kynar™ Standard Colors Finish, Add	364.65	
08 91 19 00-0054	EA		30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	936.24	103.61
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	72.90	
			For Clear Lacquer Finish, Add	145.80	
			For Baked Enamel Standard Colors, Add	218.70	
			For Anodized Finish, Add	291.60	
			For Kynar™ Standard Colors Finish, Add	400.95	
08 91 19 00-0055	EA		30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,001.75	109.37
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	78.30	
			For Clear Lacquer Finish, Add	156.60	
			For Baked Enamel Standard Colors, Add	234.90	
			For Anodized Finish, Add	313.20	
			For Kynar™ Standard Colors Finish, Add	430.65	
08 91 19 00-0056	EA		30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,103.97	120.89
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	86.22	
			For Clear Lacquer Finish, Add	172.44	
			For Baked Enamel Standard Colors, Add	258.66	
			For Anodized Finish, Add	344.88	
			For Kynar™ Standard Colors Finish, Add	474.21	
08 91 19 00-0057	EA		30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,170.44	129.53
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	91.14	
			For Clear Lacquer Finish, Add	182.28	
			For Baked Enamel Standard Colors, Add	273.42	
			For Anodized Finish, Add	364.56	
			For Kynar™ Standard Colors Finish, Add	501.27	
08 91 19 00-0058	EA		30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,244.96	135.27
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	97.44	
			For Clear Lacquer Finish, Add	194.88	
			For Baked Enamel Standard Colors, Add	292.32	
			For Anodized Finish, Add	389.76	
			For Kynar™ Standard Colors Finish, Add	535.92	
08 91 19 00-0059	EA		30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,318.87	141.03
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	103.68	
			For Clear Lacquer Finish, Add	207.36	
			For Baked Enamel Standard Colors, Add	311.04	
			For Anodized Finish, Add	414.72	
			For Kynar™ Standard Colors Finish, Add	570.24	
08 91 19 00-0060	EA		30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,384.14	149.67
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	108.48	
			For Clear Lacquer Finish, Add	216.96	
			For Baked Enamel Standard Colors, Add	325.44	
			For Anodized Finish, Add	433.92	
			For Kynar™ Standard Colors Finish, Add	596.64	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0061 EA 30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,483.01	158.30
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	116.64	
For Clear Lacquer Finish, Add	233.28	
For Baked Enamel Standard Colors, Add	349.92	
For Anodized Finish, Add	466.56	
For Kynar™ Standard Colors Finish, Add	641.52	
08 91 19 00-0062 EA 36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	394.27	48.93
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	29.64	
For Clear Lacquer Finish, Add	59.28	
For Baked Enamel Standard Colors, Add	88.92	
For Anodized Finish, Add	118.56	
For Kynar™ Standard Colors Finish, Add	163.02	
08 91 19 00-0063 EA 36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	516.64	63.32
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	39.00	
For Clear Lacquer Finish, Add	78.00	
For Baked Enamel Standard Colors, Add	117.00	
For Anodized Finish, Add	156.00	
For Kynar™ Standard Colors Finish, Add	214.50	
08 91 19 00-0064 EA 36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	596.32	71.95
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	45.24	
For Clear Lacquer Finish, Add	90.48	
For Baked Enamel Standard Colors, Add	135.72	
For Anodized Finish, Add	180.96	
For Kynar™ Standard Colors Finish, Add	248.82	
08 91 19 00-0065 EA 36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	689.79	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	52.86	
For Clear Lacquer Finish, Add	105.72	
For Baked Enamel Standard Colors, Add	158.58	
For Anodized Finish, Add	211.44	
For Kynar™ Standard Colors Finish, Add	290.73	
08 91 19 00-0066 EA 36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	792.40	87.50
Note: Includes bird screen.		
For Flange Frame, Add	61.74	
For Clear Lacquer Finish, Add	123.48	
For Baked Enamel Standard Colors, Add	185.22	
For Anodized Finish, Add	246.96	
For Kynar™ Standard Colors Finish, Add	339.57	
08 91 19 00-0067 EA 36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	873.96	94.98
Note: Includes bird screen.		
For Flange Frame, Add	68.40	
For Clear Lacquer Finish, Add	136.80	
For Baked Enamel Standard Colors, Add	205.20	
For Anodized Finish, Add	273.60	
For Kynar™ Standard Colors Finish, Add	376.20	
08 91 19 00-0068 EA 36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	943.68	100.74
Note: Includes bird screen.		
For Flange Frame, Add	74.22	
For Clear Lacquer Finish, Add	148.44	
For Baked Enamel Standard Colors, Add	222.66	
For Anodized Finish, Add	296.88	
For Kynar™ Standard Colors Finish, Add	408.21	
08 91 19 00-0069 EA 36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,037.75	109.37
Note: Includes bird screen.		
For Flange Frame, Add	81.90	
For Clear Lacquer Finish, Add	163.80	
For Baked Enamel Standard Colors, Add	245.70	
For Anodized Finish, Add	327.60	
For Kynar™ Standard Colors Finish, Add	450.45	
08 91 19 00-0070 EA 36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,110.81	118.01
Note: Includes bird screen.		
For Flange Frame, Add	87.48	
For Clear Lacquer Finish, Add	174.96	
For Baked Enamel Standard Colors, Add	262.44	
For Anodized Finish, Add	349.92	
For Kynar™ Standard Colors Finish, Add	481.14	
08 91 19 00-0071 EA 36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,222.29	126.64
Note: Includes bird screen.		
For Flange Frame, Add	96.90	
For Clear Lacquer Finish, Add	193.80	
For Baked Enamel Standard Colors, Add	290.70	
For Anodized Finish, Add	387.60	
For Kynar™ Standard Colors Finish, Add	532.95	
08 91 19 00-0072 EA 36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,298.36	135.27
Note: Includes bird screen.		
For Flange Frame, Add	102.78	
For Clear Lacquer Finish, Add	205.56	
For Baked Enamel Standard Colors, Add	308.34	
For Anodized Finish, Add	411.12	
For Kynar™ Standard Colors Finish, Add	565.29	

08 Openings**08 90 Louvers And Vents****08 91 Louvers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0073	EA		36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,377.67	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	109.56	
			For Clear Lacquer Finish, Add	219.12	
			For Baked Enamel Standard Colors, Add	328.68	
			For Anodized Finish, Add	438.24	
			For Kynar™ Standard Colors Finish, Add	602.58	
08 91 19 00-0074	EA		36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,459.98	146.79
			Note: Includes bird screen.		
			For Flange Frame, Add	116.64	
			For Clear Lacquer Finish, Add	233.28	
			For Baked Enamel Standard Colors, Add	349.92	
			For Anodized Finish, Add	466.56	
			For Kynar™ Standard Colors Finish, Add	641.52	
08 91 19 00-0075	EA		36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,533.65	155.43
			Note: Includes bird screen.		
			For Flange Frame, Add	122.28	
			For Clear Lacquer Finish, Add	244.56	
			For Baked Enamel Standard Colors, Add	366.84	
			For Anodized Finish, Add	489.12	
			For Kynar™ Standard Colors Finish, Add	672.54	
08 91 19 00-0076	EA		36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,644.52	164.06
			Note: Includes bird screen.		
			For Flange Frame, Add	131.64	
			For Clear Lacquer Finish, Add	263.28	
			For Baked Enamel Standard Colors, Add	394.92	
			For Anodized Finish, Add	526.56	
			For Kynar™ Standard Colors Finish, Add	724.02	
08 91 19 00-0077	EA		42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	456.77	54.69
			Note: Includes bird screen.		
			For Flange Frame, Add	34.74	
			For Clear Lacquer Finish, Add	69.48	
			For Baked Enamel Standard Colors, Add	104.22	
			For Anodized Finish, Add	138.96	
			For Kynar™ Standard Colors Finish, Add	191.07	
08 91 19 00-0078	EA		42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	561.76	69.08
			Note: Includes bird screen.		
			For Flange Frame, Add	42.36	
			For Clear Lacquer Finish, Add	84.72	
			For Baked Enamel Standard Colors, Add	127.08	
			For Anodized Finish, Add	169.44	
			For Kynar™ Standard Colors Finish, Add	232.98	
08 91 19 00-0079	EA		42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	649.23	77.71
			Note: Includes bird screen.		
			For Flange Frame, Add	49.38	
			For Clear Lacquer Finish, Add	98.76	
			For Baked Enamel Standard Colors, Add	148.14	
			For Anodized Finish, Add	197.52	
			For Kynar™ Standard Colors Finish, Add	271.59	
08 91 19 00-0080	EA		42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	758.05	89.22
			Note: Includes bird screen.		
			For Flange Frame, Add	57.96	
			For Clear Lacquer Finish, Add	115.92	
			For Baked Enamel Standard Colors, Add	173.88	
			For Anodized Finish, Add	231.84	
			For Kynar™ Standard Colors Finish, Add	318.78	
08 91 19 00-0081	EA		42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	867.96	94.98
			Note: Includes bird screen.		
			For Flange Frame, Add	67.80	
			For Clear Lacquer Finish, Add	135.60	
			For Baked Enamel Standard Colors, Add	203.40	
			For Anodized Finish, Add	271.20	
			For Kynar™ Standard Colors Finish, Add	372.90	
08 91 19 00-0082	EA		42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	956.88	100.74
			Note: Includes bird screen.		
			For Flange Frame, Add	75.54	
			For Clear Lacquer Finish, Add	151.08	
			For Baked Enamel Standard Colors, Add	226.62	
			For Anodized Finish, Add	302.16	
			For Kynar™ Standard Colors Finish, Add	415.47	
08 91 19 00-0083	EA		42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,034.39	106.50
			Note: Includes bird screen.		
			For Flange Frame, Add	82.14	
			For Clear Lacquer Finish, Add	164.28	
			For Baked Enamel Standard Colors, Add	246.42	
			For Anodized Finish, Add	328.56	
			For Kynar™ Standard Colors Finish, Add	451.77	
08 91 19 00-0084	EA		42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,128.46	115.13
			Note: Includes bird screen.		
			For Flange Frame, Add	89.82	
			For Clear Lacquer Finish, Add	179.64	
			For Baked Enamel Standard Colors, Add	269.46	
			For Anodized Finish, Add	359.28	
			For Kynar™ Standard Colors Finish, Add	494.01	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0085 EA 42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,209.93	123.77
Note: Includes bird screen.		
For Flange Frame, Add	96.24	
For Clear Lacquer Finish, Add	192.48	
For Baked Enamel Standard Colors, Add	288.72	
For Anodized Finish, Add	384.96	
For Kynar™ Standard Colors Finish, Add	529.32	
08 91 19 00-0086 EA 42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,332.80	132.40
Note: Includes bird screen.		
For Flange Frame, Add	106.80	
For Clear Lacquer Finish, Add	213.60	
For Baked Enamel Standard Colors, Add	320.40	
For Anodized Finish, Add	427.20	
For Kynar™ Standard Colors Finish, Add	587.40	
08 91 19 00-0087 EA 42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,414.27	141.03
Note: Includes bird screen.		
For Flange Frame, Add	113.22	
For Clear Lacquer Finish, Add	226.44	
For Baked Enamel Standard Colors, Add	339.66	
For Anodized Finish, Add	452.88	
For Kynar™ Standard Colors Finish, Add	622.71	
08 91 19 00-0088 EA 42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,503.18	146.79
Note: Includes bird screen.		
For Flange Frame, Add	120.96	
For Clear Lacquer Finish, Add	241.92	
For Baked Enamel Standard Colors, Add	362.88	
For Anodized Finish, Add	483.84	
For Kynar™ Standard Colors Finish, Add	665.28	
08 91 19 00-0089 EA 42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,592.69	152.55
Note: Includes bird screen.		
For Flange Frame, Add	128.76	
For Clear Lacquer Finish, Add	257.52	
For Baked Enamel Standard Colors, Add	386.28	
For Anodized Finish, Add	515.04	
For Kynar™ Standard Colors Finish, Add	708.18	
08 91 19 00-0090 EA 42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,678.37	161.19
Note: Includes bird screen.		
For Flange Frame, Add	135.60	
For Clear Lacquer Finish, Add	271.20	
For Baked Enamel Standard Colors, Add	406.80	
For Anodized Finish, Add	542.40	
For Kynar™ Standard Colors Finish, Add	745.80	
08 91 19 00-0091 EA 42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,797.04	169.82
Note: Includes bird screen.		
For Flange Frame, Add	145.74	
For Clear Lacquer Finish, Add	291.48	
For Baked Enamel Standard Colors, Add	437.22	
For Anodized Finish, Add	582.96	
For Kynar™ Standard Colors Finish, Add	801.57	
08 91 19 00-0092 EA 48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	500.09	60.45
Note: Includes bird screen.		
For Flange Frame, Add	37.92	
For Clear Lacquer Finish, Add	75.84	
For Baked Enamel Standard Colors, Add	113.76	
For Anodized Finish, Add	151.68	
For Kynar™ Standard Colors Finish, Add	208.56	
08 91 19 00-0093 EA 48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	613.47	74.84
Note: Includes bird screen.		
For Flange Frame, Add	46.38	
For Clear Lacquer Finish, Add	92.76	
For Baked Enamel Standard Colors, Add	139.14	
For Anodized Finish, Add	185.52	
For Kynar™ Standard Colors Finish, Add	255.09	
08 91 19 00-0094 EA 48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	717.49	86.35
Note: Includes bird screen.		
For Flange Frame, Add	54.48	
For Clear Lacquer Finish, Add	108.96	
For Baked Enamel Standard Colors, Add	163.44	
For Anodized Finish, Add	217.92	
For Kynar™ Standard Colors Finish, Add	299.64	
08 91 19 00-0095 EA 48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	822.36	94.98
Note: Includes bird screen.		
For Flange Frame, Add	63.24	
For Clear Lacquer Finish, Add	126.48	
For Baked Enamel Standard Colors, Add	189.72	
For Anodized Finish, Add	252.96	
For Kynar™ Standard Colors Finish, Add	347.82	
08 91 19 00-0096 EA 48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	947.28	100.74
Note: Includes bird screen.		
For Flange Frame, Add	74.58	
For Clear Lacquer Finish, Add	149.16	
For Baked Enamel Standard Colors, Add	223.74	
For Anodized Finish, Add	298.32	
For Kynar™ Standard Colors Finish, Add	410.19	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0097	EA		48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,049.39	106.50
			Note: Includes bird screen.		
			For Flange Frame, Add	83.64	
			For Clear Lacquer Finish, Add	167.28	
			For Baked Enamel Standard Colors, Add	250.92	
			For Anodized Finish, Add	334.56	
			For Kynar™ Standard Colors Finish, Add	460.02	
08 91 19 00-0098	EA		48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,136.86	115.13
			Note: Includes bird screen.		
			For Flange Frame, Add	90.66	
			For Clear Lacquer Finish, Add	181.32	
			For Baked Enamel Standard Colors, Add	271.98	
			For Anodized Finish, Add	362.64	
			For Kynar™ Standard Colors Finish, Add	498.63	
08 91 19 00-0099	EA		48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,270.53	123.77
			Note: Includes bird screen.		
			For Flange Frame, Add	102.30	
			For Clear Lacquer Finish, Add	204.60	
			For Baked Enamel Standard Colors, Add	306.90	
			For Anodized Finish, Add	409.20	
			For Kynar™ Standard Colors Finish, Add	562.65	
08 91 19 00-0100	EA		48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,332.80	132.40
			Note: Includes bird screen.		
			For Flange Frame, Add	106.80	
			For Clear Lacquer Finish, Add	213.60	
			For Baked Enamel Standard Colors, Add	320.40	
			For Anodized Finish, Add	427.20	
			For Kynar™ Standard Colors Finish, Add	587.40	
08 91 19 00-0101	EA		48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,463.47	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	118.14	
			For Clear Lacquer Finish, Add	236.28	
			For Baked Enamel Standard Colors, Add	354.42	
			For Anodized Finish, Add	472.56	
			For Kynar™ Standard Colors Finish, Add	649.77	
08 91 19 00-0102	EA		48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,556.34	149.67
			Note: Includes bird screen.		
			For Flange Frame, Add	125.70	
			For Clear Lacquer Finish, Add	251.40	
			For Baked Enamel Standard Colors, Add	377.10	
			For Anodized Finish, Add	502.80	
			For Kynar™ Standard Colors Finish, Add	691.35	
08 91 19 00-0103	EA		48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,654.85	155.43
			Note: Includes bird screen.		
			For Flange Frame, Add	134.40	
			For Clear Lacquer Finish, Add	268.80	
			For Baked Enamel Standard Colors, Add	403.20	
			For Anodized Finish, Add	537.60	
			For Kynar™ Standard Colors Finish, Add	739.20	
08 91 19 00-0104	EA		48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,753.37	161.19
			Note: Includes bird screen.		
			For Flange Frame, Add	143.10	
			For Clear Lacquer Finish, Add	286.20	
			For Baked Enamel Standard Colors, Add	429.30	
			For Anodized Finish, Add	572.40	
			For Kynar™ Standard Colors Finish, Add	787.05	
08 91 19 00-0105	EA		48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,836.28	166.94
			Note: Includes bird screen.		
			For Flange Frame, Add	150.24	
			For Clear Lacquer Finish, Add	300.48	
			For Baked Enamel Standard Colors, Add	450.72	
			For Anodized Finish, Add	600.96	
			For Kynar™ Standard Colors Finish, Add	826.32	
08 91 19 00-0106	EA		48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,971.75	175.58
			Note: Includes bird screen.		
			For Flange Frame, Add	162.06	
			For Clear Lacquer Finish, Add	324.12	
			For Baked Enamel Standard Colors, Add	486.18	
			For Anodized Finish, Add	648.24	
			For Kynar™ Standard Colors Finish, Add	891.33	
08 91 19 00-0107	EA		54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	555.76	69.08
			Note: Includes bird screen.		
			For Flange Frame, Add	41.76	
			For Clear Lacquer Finish, Add	83.52	
			For Baked Enamel Standard Colors, Add	125.28	
			For Anodized Finish, Add	167.04	
			For Kynar™ Standard Colors Finish, Add	229.68	
08 91 19 00-0108	EA		54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	681.14	83.47
			Note: Includes bird screen.		
			For Flange Frame, Add	51.42	
			For Clear Lacquer Finish, Add	102.84	
			For Baked Enamel Standard Colors, Add	154.26	
			For Anodized Finish, Add	205.68	
			For Kynar™ Standard Colors Finish, Add	282.81	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0109	EA		54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	797.52	97.87
			Note: Includes bird screen.		
			For Flange Frame, Add	60.18	
			For Clear Lacquer Finish, Add	120.36	
			For Baked Enamel Standard Colors, Add	180.54	
			For Anodized Finish, Add	240.72	
			For Kynar™ Standard Colors Finish, Add	330.99	
08 91 19 00-0110	EA		54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	906.84	103.61
			Note: Includes bird screen.		
			For Flange Frame, Add	69.96	
			For Clear Lacquer Finish, Add	139.92	
			For Baked Enamel Standard Colors, Add	209.88	
			For Anodized Finish, Add	279.84	
			For Kynar™ Standard Colors Finish, Add	384.78	
08 91 19 00-0111	EA		54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,055.15	109.37
			Note: Includes bird screen.		
			For Flange Frame, Add	83.64	
			For Clear Lacquer Finish, Add	167.28	
			For Baked Enamel Standard Colors, Add	250.92	
			For Anodized Finish, Add	334.56	
			For Kynar™ Standard Colors Finish, Add	460.02	
08 91 19 00-0112	EA		54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,159.66	115.13
			Note: Includes bird screen.		
			For Flange Frame, Add	92.94	
			For Clear Lacquer Finish, Add	185.88	
			For Baked Enamel Standard Colors, Add	278.82	
			For Anodized Finish, Add	371.76	
			For Kynar™ Standard Colors Finish, Add	511.17	
08 91 19 00-0113	EA		54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,260.93	123.77
			Note: Includes bird screen.		
			For Flange Frame, Add	101.34	
			For Clear Lacquer Finish, Add	202.68	
			For Baked Enamel Standard Colors, Add	304.02	
			For Anodized Finish, Add	405.36	
			For Kynar™ Standard Colors Finish, Add	557.37	
08 91 19 00-0114	EA		54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,406.00	132.40
			Note: Includes bird screen.		
			For Flange Frame, Add	114.12	
			For Clear Lacquer Finish, Add	228.24	
			For Baked Enamel Standard Colors, Add	342.36	
			For Anodized Finish, Add	456.48	
			For Kynar™ Standard Colors Finish, Add	627.66	
08 91 19 00-0115	EA		54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,510.27	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	122.82	
			For Clear Lacquer Finish, Add	245.64	
			For Baked Enamel Standard Colors, Add	368.46	
			For Anodized Finish, Add	491.28	
			For Kynar™ Standard Colors Finish, Add	675.51	
08 91 19 00-0116	EA		54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,661.94	149.67
			Note: Includes bird screen.		
			For Flange Frame, Add	136.26	
			For Clear Lacquer Finish, Add	272.52	
			For Baked Enamel Standard Colors, Add	408.78	
			For Anodized Finish, Add	545.04	
			For Kynar™ Standard Colors Finish, Add	749.43	
08 91 19 00-0117	EA		54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,759.85	155.43
			Note: Includes bird screen.		
			For Flange Frame, Add	144.90	
			For Clear Lacquer Finish, Add	289.80	
			For Baked Enamel Standard Colors, Add	434.70	
			For Anodized Finish, Add	579.60	
			For Kynar™ Standard Colors Finish, Add	796.95	
08 91 19 00-0118	EA		54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,870.97	161.19
			Note: Includes bird screen.		
			For Flange Frame, Add	154.86	
			For Clear Lacquer Finish, Add	309.72	
			For Baked Enamel Standard Colors, Add	464.58	
			For Anodized Finish, Add	619.44	
			For Kynar™ Standard Colors Finish, Add	851.73	
08 91 19 00-0119	EA		54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,977.88	166.94
			Note: Includes bird screen.		
			For Flange Frame, Add	164.40	
			For Clear Lacquer Finish, Add	328.80	
			For Baked Enamel Standard Colors, Add	493.20	
			For Anodized Finish, Add	657.60	
			For Kynar™ Standard Colors Finish, Add	904.20	
08 91 19 00-0120	EA		54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,067.40	172.69
			Note: Includes bird screen.		
			For Flange Frame, Add	172.20	
			For Clear Lacquer Finish, Add	344.40	
			For Baked Enamel Standard Colors, Add	516.60	
			For Anodized Finish, Add	688.80	
			For Kynar™ Standard Colors Finish, Add	947.10	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0121	EA		54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,223.86	181.33
			Note: Includes bird screen.		
			For Flange Frame, Add	186.12	
			For Clear Lacquer Finish, Add	372.24	
			For Baked Enamel Standard Colors, Add	558.36	
			For Anodized Finish, Add	744.48	
			For Kynar™ Standard Colors Finish, Add	1,023.66	
08 91 19 00-0122	EA		60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	597.87	74.84
			Note: Includes bird screen.		
			For Flange Frame, Add	44.82	
			For Clear Lacquer Finish, Add	89.64	
			For Baked Enamel Standard Colors, Add	134.46	
			For Anodized Finish, Add	179.28	
			For Kynar™ Standard Colors Finish, Add	246.51	
08 91 19 00-0123	EA		60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	737.41	92.11
			Note: Includes bird screen.		
			For Flange Frame, Add	55.32	
			For Clear Lacquer Finish, Add	110.64	
			For Baked Enamel Standard Colors, Add	165.96	
			For Anodized Finish, Add	221.28	
			For Kynar™ Standard Colors Finish, Add	304.26	
08 91 19 00-0124	EA		60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	854.04	103.61
			Note: Includes bird screen.		
			For Flange Frame, Add	64.68	
			For Clear Lacquer Finish, Add	129.36	
			For Baked Enamel Standard Colors, Add	194.04	
			For Anodized Finish, Add	258.72	
			For Kynar™ Standard Colors Finish, Add	355.74	
08 91 19 00-0125	EA		60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	979.55	109.37
			Note: Includes bird screen.		
			For Flange Frame, Add	76.08	
			For Clear Lacquer Finish, Add	152.16	
			For Baked Enamel Standard Colors, Add	228.24	
			For Anodized Finish, Add	304.32	
			For Kynar™ Standard Colors Finish, Add	418.44	
08 91 19 00-0126	EA		60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,136.61	118.01
			Note: Includes bird screen.		
			For Flange Frame, Add	90.06	
			For Clear Lacquer Finish, Add	180.12	
			For Baked Enamel Standard Colors, Add	270.18	
			For Anodized Finish, Add	360.24	
			For Kynar™ Standard Colors Finish, Add	495.33	
08 91 19 00-0127	EA		60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,253.13	123.77
			Note: Includes bird screen.		
			For Flange Frame, Add	100.56	
			For Clear Lacquer Finish, Add	201.12	
			For Baked Enamel Standard Colors, Add	301.68	
			For Anodized Finish, Add	402.24	
			For Kynar™ Standard Colors Finish, Add	553.08	
08 91 19 00-0128	EA		60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,358.60	132.40
			Note: Includes bird screen.		
			For Flange Frame, Add	109.38	
			For Clear Lacquer Finish, Add	218.76	
			For Baked Enamel Standard Colors, Add	328.14	
			For Anodized Finish, Add	437.52	
			For Kynar™ Standard Colors Finish, Add	601.59	
08 91 19 00-0129	EA		60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,513.27	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	123.12	
			For Clear Lacquer Finish, Add	246.24	
			For Baked Enamel Standard Colors, Add	369.36	
			For Anodized Finish, Add	492.48	
			For Kynar™ Standard Colors Finish, Add	677.16	
08 91 19 00-0130	EA		60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,624.74	149.67
			Note: Includes bird screen.		
			For Flange Frame, Add	132.54	
			For Clear Lacquer Finish, Add	265.08	
			For Baked Enamel Standard Colors, Add	397.62	
			For Anodized Finish, Add	530.16	
			For Kynar™ Standard Colors Finish, Add	728.97	
08 91 19 00-0131	EA		60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,788.41	158.30
			Note: Includes bird screen.		
			For Flange Frame, Add	147.18	
			For Clear Lacquer Finish, Add	294.36	
			For Baked Enamel Standard Colors, Add	441.54	
			For Anodized Finish, Add	588.72	
			For Kynar™ Standard Colors Finish, Add	809.49	
08 91 19 00-0132	EA		60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,892.32	164.06
			Note: Includes bird screen.		
			For Flange Frame, Add	156.42	
			For Clear Lacquer Finish, Add	312.84	
			For Baked Enamel Standard Colors, Add	469.26	
			For Anodized Finish, Add	625.68	
			For Kynar™ Standard Colors Finish, Add	860.31	



		Openings	08	08
		Louvers And Vents	08 90	
		Louvers	08 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0133 EA 60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,010.04	169.82
Note: Includes bird screen.		
For Flange Frame, Add	167.04	
For Clear Lacquer Finish, Add	334.08	
For Baked Enamel Standard Colors, Add	501.12	
For Anodized Finish, Add	668.16	
For Kynar™ Standard Colors Finish, Add	918.72	
08 91 19 00-0134 EA 60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,125.35	175.58
Note: Includes bird screen.		
For Flange Frame, Add	177.42	
For Clear Lacquer Finish, Add	354.84	
For Baked Enamel Standard Colors, Add	532.26	
For Anodized Finish, Add	709.68	
For Kynar™ Standard Colors Finish, Add	975.81	
08 91 19 00-0135 EA 60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,223.86	181.33
Note: Includes bird screen.		
For Flange Frame, Add	186.12	
For Clear Lacquer Finish, Add	372.24	
For Baked Enamel Standard Colors, Add	558.36	
For Anodized Finish, Add	744.48	
For Kynar™ Standard Colors Finish, Add	1,023.66	
08 91 19 00-0136 EA 60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,384.77	187.09
Note: Includes bird screen.		
For Flange Frame, Add	201.06	
For Clear Lacquer Finish, Add	402.12	
For Baked Enamel Standard Colors, Add	603.18	
For Anodized Finish, Add	804.24	
For Kynar™ Standard Colors Finish, Add	1,105.83	
08 91 19 00-0137 EA 66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	684.39	80.59
Note: Includes bird screen.		
For Flange Frame, Add	52.32	
For Clear Lacquer Finish, Add	104.64	
For Baked Enamel Standard Colors, Add	156.96	
For Anodized Finish, Add	209.28	
For Kynar™ Standard Colors Finish, Add	287.76	
08 91 19 00-0138 EA 66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	844.92	97.87
Note: Includes bird screen.		
For Flange Frame, Add	64.92	
For Clear Lacquer Finish, Add	129.84	
For Baked Enamel Standard Colors, Add	194.76	
For Anodized Finish, Add	259.68	
For Kynar™ Standard Colors Finish, Add	357.06	
08 91 19 00-0139 EA 66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	985.66	115.13
Note: Includes bird screen.		
For Flange Frame, Add	75.54	
For Clear Lacquer Finish, Add	151.08	
For Baked Enamel Standard Colors, Add	226.62	
For Anodized Finish, Add	302.16	
For Kynar™ Standard Colors Finish, Add	415.47	
08 91 19 00-0140 EA 66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,121.97	120.89
Note: Includes bird screen.		
For Flange Frame, Add	88.02	
For Clear Lacquer Finish, Add	176.04	
For Baked Enamel Standard Colors, Add	264.06	
For Anodized Finish, Add	352.08	
For Kynar™ Standard Colors Finish, Add	484.11	
08 91 19 00-0141 EA 66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,301.49	126.64
Note: Includes bird screen.		
For Flange Frame, Add	104.82	
For Clear Lacquer Finish, Add	209.64	
For Baked Enamel Standard Colors, Add	314.46	
For Anodized Finish, Add	419.28	
For Kynar™ Standard Colors Finish, Add	576.51	
08 91 19 00-0142 EA 66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,428.20	132.40
Note: Includes bird screen.		
For Flange Frame, Add	116.34	
For Clear Lacquer Finish, Add	232.68	
For Baked Enamel Standard Colors, Add	349.02	
For Anodized Finish, Add	465.36	
For Kynar™ Standard Colors Finish, Add	639.87	
08 91 19 00-0143 EA 66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,552.87	141.03
Note: Includes bird screen.		
For Flange Frame, Add	127.08	
For Clear Lacquer Finish, Add	254.16	
For Baked Enamel Standard Colors, Add	381.24	
For Anodized Finish, Add	508.32	
For Kynar™ Standard Colors Finish, Add	698.94	
08 91 19 00-0144 EA 66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,697.94	149.67
Note: Includes bird screen.		
For Flange Frame, Add	139.86	
For Clear Lacquer Finish, Add	279.72	
For Baked Enamel Standard Colors, Add	419.58	
For Anodized Finish, Add	559.44	
For Kynar™ Standard Colors Finish, Add	769.23	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0145	EA		66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,822.01	158.30
			Note: Includes bird screen.		
			For Flange Frame, Add	150.54	
			For Clear Lacquer Finish, Add	301.08	
			For Baked Enamel Standard Colors, Add	451.62	
			For Anodized Finish, Add	602.16	
			For Kynar™ Standard Colors Finish, Add	827.97	
08 91 19 00-0146	EA		66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,011.24	169.82
			Note: Includes bird screen.		
			For Flange Frame, Add	167.16	
			For Clear Lacquer Finish, Add	334.32	
			For Baked Enamel Standard Colors, Add	501.48	
			For Anodized Finish, Add	668.64	
			For Kynar™ Standard Colors Finish, Add	919.38	
08 91 19 00-0147	EA		66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,131.11	178.45
			Note: Includes bird screen.		
			For Flange Frame, Add	177.42	
			For Clear Lacquer Finish, Add	354.84	
			For Baked Enamel Standard Colors, Add	532.26	
			For Anodized Finish, Add	709.68	
			For Kynar™ Standard Colors Finish, Add	975.81	
08 91 19 00-0148	EA		66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,255.41	184.21
			Note: Includes bird screen.		
			For Flange Frame, Add	188.70	
			For Clear Lacquer Finish, Add	377.40	
			For Baked Enamel Standard Colors, Add	566.10	
			For Anodized Finish, Add	754.80	
			For Kynar™ Standard Colors Finish, Add	1,037.85	
08 91 19 00-0149	EA		66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,382.13	189.96
			Note: Includes bird screen.		
			For Flange Frame, Add	200.22	
			For Clear Lacquer Finish, Add	400.44	
			For Baked Enamel Standard Colors, Add	600.66	
			For Anodized Finish, Add	800.88	
			For Kynar™ Standard Colors Finish, Add	1,101.21	
08 91 19 00-0150	EA		66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,492.64	195.72
			Note: Includes bird screen.		
			For Flange Frame, Add	210.12	
			For Clear Lacquer Finish, Add	420.24	
			For Baked Enamel Standard Colors, Add	630.36	
			For Anodized Finish, Add	840.48	
			For Kynar™ Standard Colors Finish, Add	1,155.66	
08 91 19 00-0151	EA		66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,671.56	201.48
			Note: Includes bird screen.		
			For Flange Frame, Add	226.86	
			For Clear Lacquer Finish, Add	453.72	
			For Baked Enamel Standard Colors, Add	680.58	
			For Anodized Finish, Add	907.44	
			For Kynar™ Standard Colors Finish, Add	1,247.73	
08 91 19 00-0152	EA		72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	723.49	86.35
			Note: Includes bird screen.		
			For Flange Frame, Add	55.08	
			For Clear Lacquer Finish, Add	110.16	
			For Baked Enamel Standard Colors, Add	165.24	
			For Anodized Finish, Add	220.32	
			For Kynar™ Standard Colors Finish, Add	302.94	
08 91 19 00-0153	EA		72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	891.24	103.61
			Note: Includes bird screen.		
			For Flange Frame, Add	68.40	
			For Clear Lacquer Finish, Add	136.80	
			For Baked Enamel Standard Colors, Add	205.20	
			For Anodized Finish, Add	273.60	
			For Kynar™ Standard Colors Finish, Add	376.20	
08 91 19 00-0154	EA		72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,038.57	120.89
			Note: Includes bird screen.		
			For Flange Frame, Add	79.68	
			For Clear Lacquer Finish, Add	159.36	
			For Baked Enamel Standard Colors, Add	239.04	
			For Anodized Finish, Add	318.72	
			For Kynar™ Standard Colors Finish, Add	438.24	
08 91 19 00-0155	EA		72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,188.44	129.53
			Note: Includes bird screen.		
			For Flange Frame, Add	92.94	
			For Clear Lacquer Finish, Add	185.88	
			For Baked Enamel Standard Colors, Add	278.82	
			For Anodized Finish, Add	371.76	
			For Kynar™ Standard Colors Finish, Add	511.17	
08 91 19 00-0156	EA		72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,380.56	135.27
			Note: Includes bird screen.		
			For Flange Frame, Add	111.00	
			For Clear Lacquer Finish, Add	222.00	
			For Baked Enamel Standard Colors, Add	333.00	
			For Anodized Finish, Add	444.00	
			For Kynar™ Standard Colors Finish, Add	610.50	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0157 EA 72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,513.87	141.03
Note: Includes bird screen.		
For Flange Frame, Add	123.18	
For Clear Lacquer Finish, Add	246.36	
For Baked Enamel Standard Colors, Add	369.54	
For Anodized Finish, Add	492.72	
For Kynar™ Standard Colors Finish, Add	677.49	
08 91 19 00-0158 EA 72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,646.34	149.67
Note: Includes bird screen.		
For Flange Frame, Add	134.70	
For Clear Lacquer Finish, Add	269.40	
For Baked Enamel Standard Colors, Add	404.10	
For Anodized Finish, Add	538.80	
For Kynar™ Standard Colors Finish, Add	740.85	
08 91 19 00-0159 EA 72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,793.45	155.43
Note: Includes bird screen.		
For Flange Frame, Add	148.26	
For Clear Lacquer Finish, Add	296.52	
For Baked Enamel Standard Colors, Add	444.78	
For Anodized Finish, Add	593.04	
For Kynar™ Standard Colors Finish, Add	815.43	
08 91 19 00-0160 EA 72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,922.92	164.06
Note: Includes bird screen.		
For Flange Frame, Add	159.48	
For Clear Lacquer Finish, Add	318.96	
For Baked Enamel Standard Colors, Add	478.44	
For Anodized Finish, Add	637.92	
For Kynar™ Standard Colors Finish, Add	877.14	
08 91 19 00-0161 EA 72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,131.11	178.45
Note: Includes bird screen.		
For Flange Frame, Add	177.42	
For Clear Lacquer Finish, Add	354.84	
For Baked Enamel Standard Colors, Add	532.26	
For Anodized Finish, Add	709.68	
For Kynar™ Standard Colors Finish, Add	975.81	
08 91 19 00-0162 EA 72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,262.37	187.09
Note: Includes bird screen.		
For Flange Frame, Add	188.82	
For Clear Lacquer Finish, Add	377.64	
For Baked Enamel Standard Colors, Add	566.46	
For Anodized Finish, Add	755.28	
For Kynar™ Standard Colors Finish, Add	1,038.51	
08 91 19 00-0163 EA 72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,390.29	192.85
Note: Includes bird screen.		
For Flange Frame, Add	200.46	
For Clear Lacquer Finish, Add	400.92	
For Baked Enamel Standard Colors, Add	601.38	
For Anodized Finish, Add	801.84	
For Kynar™ Standard Colors Finish, Add	1,102.53	
08 91 19 00-0164 EA 72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,520.00	198.60
Note: Includes bird screen.		
For Flange Frame, Add	212.28	
For Clear Lacquer Finish, Add	424.56	
For Baked Enamel Standard Colors, Add	636.84	
For Anodized Finish, Add	849.12	
For Kynar™ Standard Colors Finish, Add	1,167.54	
08 91 19 00-0165 EA 72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,641.92	204.35
Note: Includes bird screen.		
For Flange Frame, Add	223.32	
For Clear Lacquer Finish, Add	446.64	
For Baked Enamel Standard Colors, Add	669.96	
For Anodized Finish, Add	893.28	
For Kynar™ Standard Colors Finish, Add	1,228.26	
08 91 19 00-0166 EA 72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,832.23	210.11
Note: Includes bird screen.		
For Flange Frame, Add	241.20	
For Clear Lacquer Finish, Add	482.40	
For Baked Enamel Standard Colors, Add	723.60	
For Anodized Finish, Add	964.80	
For Kynar™ Standard Colors Finish, Add	1,326.60	
08 91 19 00-0167 EA 78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	769.81	92.11
Note: Includes bird screen.		
For Flange Frame, Add	58.56	
For Clear Lacquer Finish, Add	117.12	
For Baked Enamel Standard Colors, Add	175.68	
For Anodized Finish, Add	234.24	
For Kynar™ Standard Colors Finish, Add	322.08	
08 91 19 00-0168 EA 78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	941.75	109.37
Note: Includes bird screen.		
For Flange Frame, Add	72.30	
For Clear Lacquer Finish, Add	144.60	
For Baked Enamel Standard Colors, Add	216.90	
For Anodized Finish, Add	289.20	
For Kynar™ Standard Colors Finish, Add	397.65	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0169	EA		78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,092.09	126.64
			Note: Includes bird screen.		
			For Flange Frame, Add	83.88	
			For Clear Lacquer Finish, Add	167.76	
			For Baked Enamel Standard Colors, Add	251.64	
			For Anodized Finish, Add	335.52	
			For Kynar™ Standard Colors Finish, Add	461.34	
08 91 19 00-0170	EA		78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,251.56	135.27
			Note: Includes bird screen.		
			For Flange Frame, Add	98.10	
			For Clear Lacquer Finish, Add	196.20	
			For Baked Enamel Standard Colors, Add	294.30	
			For Anodized Finish, Add	392.40	
			For Kynar™ Standard Colors Finish, Add	539.55	
08 91 19 00-0171	EA		78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,454.47	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	117.24	
			For Clear Lacquer Finish, Add	234.48	
			For Baked Enamel Standard Colors, Add	351.72	
			For Anodized Finish, Add	468.96	
			For Kynar™ Standard Colors Finish, Add	644.82	
08 91 19 00-0172	EA		78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,593.18	146.79
			Note: Includes bird screen.		
			For Flange Frame, Add	129.96	
			For Clear Lacquer Finish, Add	259.92	
			For Baked Enamel Standard Colors, Add	389.88	
			For Anodized Finish, Add	519.84	
			For Kynar™ Standard Colors Finish, Add	714.78	
08 91 19 00-0173	EA		78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,734.65	155.43
			Note: Includes bird screen.		
			For Flange Frame, Add	142.38	
			For Clear Lacquer Finish, Add	284.76	
			For Baked Enamel Standard Colors, Add	427.14	
			For Anodized Finish, Add	569.52	
			For Kynar™ Standard Colors Finish, Add	783.09	
08 91 19 00-0174	EA		78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,890.17	161.19
			Note: Includes bird screen.		
			For Flange Frame, Add	156.78	
			For Clear Lacquer Finish, Add	313.56	
			For Baked Enamel Standard Colors, Add	470.34	
			For Anodized Finish, Add	627.12	
			For Kynar™ Standard Colors Finish, Add	862.29	
08 91 19 00-0175	EA		78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,028.64	169.82
			Note: Includes bird screen.		
			For Flange Frame, Add	168.90	
			For Clear Lacquer Finish, Add	337.80	
			For Baked Enamel Standard Colors, Add	506.70	
			For Anodized Finish, Add	675.60	
			For Kynar™ Standard Colors Finish, Add	928.95	
08 91 19 00-0176	EA		78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,249.41	184.21
			Note: Includes bird screen.		
			For Flange Frame, Add	188.10	
			For Clear Lacquer Finish, Add	376.20	
			For Baked Enamel Standard Colors, Add	564.30	
			For Anodized Finish, Add	752.40	
			For Kynar™ Standard Colors Finish, Add	1,034.55	
08 91 19 00-0177	EA		78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,386.69	192.85
			Note: Includes bird screen.		
			For Flange Frame, Add	200.10	
			For Clear Lacquer Finish, Add	400.20	
			For Baked Enamel Standard Colors, Add	600.30	
			For Anodized Finish, Add	800.40	
			For Kynar™ Standard Colors Finish, Add	1,100.55	
08 91 19 00-0178	EA		78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,529.96	201.48
			Note: Includes bird screen.		
			For Flange Frame, Add	212.70	
			For Clear Lacquer Finish, Add	425.40	
			For Baked Enamel Standard Colors, Add	638.10	
			For Anodized Finish, Add	850.80	
			For Kynar™ Standard Colors Finish, Add	1,169.85	
08 91 19 00-0179	EA		78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,659.67	207.24
			Note: Includes bird screen.		
			For Flange Frame, Add	224.52	
			For Clear Lacquer Finish, Add	449.04	
			For Baked Enamel Standard Colors, Add	673.56	
			For Anodized Finish, Add	898.08	
			For Kynar™ Standard Colors Finish, Add	1,234.86	
08 91 19 00-0180	EA		78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,789.38	212.99
			Note: Includes bird screen.		
			For Flange Frame, Add	236.34	
			For Clear Lacquer Finish, Add	472.68	
			For Baked Enamel Standard Colors, Add	709.02	
			For Anodized Finish, Add	945.36	
			For Kynar™ Standard Colors Finish, Add	1,299.87	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0181	EA		78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,991.69	218.75
			Note: Includes bird screen.		
			For Flange Frame, Add	255.42	
			For Clear Lacquer Finish, Add	510.84	
			For Baked Enamel Standard Colors, Add	766.26	
			For Anodized Finish, Add	1,021.68	
			For Kynar™ Standard Colors Finish, Add	1,404.81	
08 91 19 00-0182	EA		84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	808.32	97.87
			Note: Includes bird screen.		
			For Flange Frame, Add	61.26	
			For Clear Lacquer Finish, Add	122.52	
			For Baked Enamel Standard Colors, Add	183.78	
			For Anodized Finish, Add	245.04	
			For Kynar™ Standard Colors Finish, Add	336.93	
08 91 19 00-0183	EA		84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	986.86	115.13
			Note: Includes bird screen.		
			For Flange Frame, Add	75.66	
			For Clear Lacquer Finish, Add	151.32	
			For Baked Enamel Standard Colors, Add	226.98	
			For Anodized Finish, Add	302.64	
			For Kynar™ Standard Colors Finish, Add	416.13	
08 91 19 00-0184	EA		84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,151.60	132.40
			Note: Includes bird screen.		
			For Flange Frame, Add	88.68	
			For Clear Lacquer Finish, Add	177.36	
			For Baked Enamel Standard Colors, Add	266.04	
			For Anodized Finish, Add	354.72	
			For Kynar™ Standard Colors Finish, Add	487.74	
08 91 19 00-0185	EA		84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,315.87	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	103.38	
			For Clear Lacquer Finish, Add	206.76	
			For Baked Enamel Standard Colors, Add	310.14	
			For Anodized Finish, Add	413.52	
			For Kynar™ Standard Colors Finish, Add	568.59	
08 91 19 00-0186	EA		84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,531.38	146.79
			Note: Includes bird screen.		
			For Flange Frame, Add	123.78	
			For Clear Lacquer Finish, Add	247.56	
			For Baked Enamel Standard Colors, Add	371.34	
			For Anodized Finish, Add	495.12	
			For Kynar™ Standard Colors Finish, Add	680.79	
08 91 19 00-0187	EA		84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,677.89	152.55
			Note: Includes bird screen.		
			For Flange Frame, Add	137.28	
			For Clear Lacquer Finish, Add	274.56	
			For Baked Enamel Standard Colors, Add	411.84	
			For Anodized Finish, Add	549.12	
			For Kynar™ Standard Colors Finish, Add	755.04	
08 91 19 00-0188	EA		84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,822.37	161.19
			Note: Includes bird screen.		
			For Flange Frame, Add	150.00	
			For Clear Lacquer Finish, Add	300.00	
			For Baked Enamel Standard Colors, Add	450.00	
			For Anodized Finish, Add	600.00	
			For Kynar™ Standard Colors Finish, Add	825.00	
08 91 19 00-0189	EA		84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,989.88	166.94
			Note: Includes bird screen.		
			For Flange Frame, Add	165.60	
			For Clear Lacquer Finish, Add	331.20	
			For Baked Enamel Standard Colors, Add	496.80	
			For Anodized Finish, Add	662.40	
			For Kynar™ Standard Colors Finish, Add	910.80	
08 91 19 00-0190	EA		84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,134.95	175.58
			Note: Includes bird screen.		
			For Flange Frame, Add	178.38	
			For Clear Lacquer Finish, Add	356.76	
			For Baked Enamel Standard Colors, Add	535.14	
			For Anodized Finish, Add	713.52	
			For Kynar™ Standard Colors Finish, Add	981.09	
08 91 19 00-0191	EA		84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,368.33	189.96
			Note: Includes bird screen.		
			For Flange Frame, Add	198.84	
			For Clear Lacquer Finish, Add	397.68	
			For Baked Enamel Standard Colors, Add	596.52	
			For Anodized Finish, Add	795.36	
			For Kynar™ Standard Colors Finish, Add	1,093.62	
08 91 19 00-0192	EA		84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,510.40	198.60
			Note: Includes bird screen.		
			For Flange Frame, Add	211.32	
			For Clear Lacquer Finish, Add	422.64	
			For Baked Enamel Standard Colors, Add	633.96	
			For Anodized Finish, Add	845.28	
			For Kynar™ Standard Colors Finish, Add	1,162.26	

08 Openings
08 90 Louvers And Vents
08 91 Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0193	EA		84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,665.67	207.24
			Note: Includes bird screen.		
			For Flange Frame, Add	225.12	
			For Clear Lacquer Finish, Add	450.24	
			For Baked Enamel Standard Colors, Add	675.36	
			For Anodized Finish, Add	900.48	
			For Kynar™ Standard Colors Finish, Add	1,238.16	
08 91 19 00-0194	EA		84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,828.98	212.99
			Note: Includes bird screen.		
			For Flange Frame, Add	240.30	
			For Clear Lacquer Finish, Add	480.60	
			For Baked Enamel Standard Colors, Add	720.90	
			For Anodized Finish, Add	961.20	
			For Kynar™ Standard Colors Finish, Add	1,321.65	
08 91 19 00-0195	EA		84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,976.69	218.75
			Note: Includes bird screen.		
			For Flange Frame, Add	253.92	
			For Clear Lacquer Finish, Add	507.84	
			For Baked Enamel Standard Colors, Add	761.76	
			For Anodized Finish, Add	1,015.68	
			For Kynar™ Standard Colors Finish, Add	1,396.56	
08 91 19 00-0196	EA		84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,194.01	224.51
			Note: Includes bird screen.		
			For Flange Frame, Add	274.50	
			For Clear Lacquer Finish, Add	549.00	
			For Baked Enamel Standard Colors, Add	823.50	
			For Anodized Finish, Add	1,098.00	
			For Kynar™ Standard Colors Finish, Add	1,509.75	
08 91 19 00-0197	EA		90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	859.79	106.50
			Note: Includes bird screen.		
			For Flange Frame, Add	64.68	
			For Clear Lacquer Finish, Add	129.36	
			For Baked Enamel Standard Colors, Add	194.04	
			For Anodized Finish, Add	258.72	
			For Kynar™ Standard Colors Finish, Add	355.74	
08 91 19 00-0198	EA		90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,040.73	123.77
			Note: Includes bird screen.		
			For Flange Frame, Add	79.32	
			For Clear Lacquer Finish, Add	158.64	
			For Baked Enamel Standard Colors, Add	237.96	
			For Anodized Finish, Add	317.28	
			For Kynar™ Standard Colors Finish, Add	436.26	
08 91 19 00-0199	EA		90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,211.47	141.03
			Note: Includes bird screen.		
			For Flange Frame, Add	92.94	
			For Clear Lacquer Finish, Add	185.88	
			For Baked Enamel Standard Colors, Add	278.82	
			For Anodized Finish, Add	371.76	
			For Kynar™ Standard Colors Finish, Add	511.17	
08 91 19 00-0200	EA		90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,380.54	149.67
			Note: Includes bird screen.		
			For Flange Frame, Add	108.12	
			For Clear Lacquer Finish, Add	216.24	
			For Baked Enamel Standard Colors, Add	324.36	
			For Anodized Finish, Add	432.48	
			For Kynar™ Standard Colors Finish, Add	594.66	
08 91 19 00-0201	EA		90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,610.45	155.43
			Note: Includes bird screen.		
			For Flange Frame, Add	129.96	
			For Clear Lacquer Finish, Add	259.92	
			For Baked Enamel Standard Colors, Add	389.88	
			For Anodized Finish, Add	519.84	
			For Kynar™ Standard Colors Finish, Add	714.78	
08 91 19 00-0202	EA		90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,761.77	161.19
			Note: Includes bird screen.		
			For Flange Frame, Add	143.94	
			For Clear Lacquer Finish, Add	287.88	
			For Baked Enamel Standard Colors, Add	431.82	
			For Anodized Finish, Add	575.76	
			For Kynar™ Standard Colors Finish, Add	791.67	
08 91 19 00-0203	EA		90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,906.48	166.94
			Note: Includes bird screen.		
			For Flange Frame, Add	157.26	
			For Clear Lacquer Finish, Add	314.52	
			For Baked Enamel Standard Colors, Add	471.78	
			For Anodized Finish, Add	629.04	
			For Kynar™ Standard Colors Finish, Add	864.93	
08 91 19 00-0204	EA		90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,083.00	172.69
			Note: Includes bird screen.		
			For Flange Frame, Add	173.76	
			For Clear Lacquer Finish, Add	347.52	
			For Baked Enamel Standard Colors, Add	521.28	
			For Anodized Finish, Add	695.04	
			For Kynar™ Standard Colors Finish, Add	955.68	



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0205	EA	90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,235.26 187.26 374.52 561.78 749.04 1,029.93	181.33
08 91 19 00-0206	EA	90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,481.24 208.98 417.96 626.94 835.92 1,149.39	195.72
08 91 19 00-0207	EA	90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,629.32 222.06 444.12 666.18 888.24 1,221.33	204.35
08 91 19 00-0208	EA	90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,797.78 237.18 474.36 711.54 948.72 1,304.49	212.99
08 91 19 00-0209	EA	90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	2,970.69 253.32 506.64 759.96 1,013.28 1,393.26	218.75
08 91 19 00-0210	EA	90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	3,120.57 266.58 533.16 799.74 1,066.32 1,466.19	227.38
08 91 19 00-0211	EA	90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	3,350.48 288.42 576.84 865.26 1,153.68 1,586.31	233.14
08 91 19 00-0212	EA	96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	905.26 67.50 135.00 202.50 270.00 371.25	115.13
08 91 19 00-0213	EA	96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,092.20 82.74 165.48 248.22 330.96 455.07	132.40
08 91 19 00-0214	EA	96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,270.74 97.14 194.28 291.42 388.56 534.27	149.67
08 91 19 00-0215	EA	96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,448.81 113.22 226.44 339.66 452.88 622.71	158.30
08 91 19 00-0216	EA	96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. For Flange Frame, Add For Clear Lacquer Finish, Add For Baked Enamel Standard Colors, Add For Anodized Finish, Add For Kynar™ Standard Colors Finish, Add	1,685.92 135.78 271.56 407.34 543.12 746.79	164.06

08	Openings
08 90	Louvers And Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0217	EA		96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,861.84	169.82
			Note: Includes bird screen.		
			For Flange Frame, Add	152.22	
			For Clear Lacquer Finish, Add	304.44	
			For Baked Enamel Standard Colors, Add	456.66	
			For Anodized Finish, Add	608.88	
			For Kynar™ Standard Colors Finish, Add	837.21	
08 91 19 00-0218	EA		96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,015.55	175.58
			Note: Includes bird screen.		
			For Flange Frame, Add	166.44	
			For Clear Lacquer Finish, Add	332.88	
			For Baked Enamel Standard Colors, Add	499.32	
			For Anodized Finish, Add	665.76	
			For Kynar™ Standard Colors Finish, Add	915.42	
08 91 19 00-0219	EA		96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,183.66	181.33
			Note: Includes bird screen.		
			For Flange Frame, Add	182.10	
			For Clear Lacquer Finish, Add	364.20	
			For Baked Enamel Standard Colors, Add	546.30	
			For Anodized Finish, Add	728.40	
			For Kynar™ Standard Colors Finish, Add	1,001.55	
08 91 19 00-0220	EA		96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,339.77	187.09
			Note: Includes bird screen.		
			For Flange Frame, Add	196.56	
			For Clear Lacquer Finish, Add	393.12	
			For Baked Enamel Standard Colors, Add	589.68	
			For Anodized Finish, Add	786.24	
			For Kynar™ Standard Colors Finish, Add	1,081.08	
08 91 19 00-0221	EA		96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,603.16	201.48
			Note: Includes bird screen.		
			For Flange Frame, Add	220.02	
			For Clear Lacquer Finish, Add	440.04	
			For Baked Enamel Standard Colors, Add	660.06	
			For Anodized Finish, Add	880.08	
			For Kynar™ Standard Colors Finish, Add	1,210.11	
08 91 19 00-0222	EA		96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,110.43	210.11
			Note: Includes bird screen.		
			For Flange Frame, Add	169.02	
			For Clear Lacquer Finish, Add	338.04	
			For Baked Enamel Standard Colors, Add	507.06	
			For Anodized Finish, Add	676.08	
			For Kynar™ Standard Colors Finish, Add	929.61	
08 91 19 00-0223	EA		96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,928.09	218.75
			Note: Includes bird screen.		
			For Flange Frame, Add	249.06	
			For Clear Lacquer Finish, Add	498.12	
			For Baked Enamel Standard Colors, Add	747.18	
			For Anodized Finish, Add	996.24	
			For Kynar™ Standard Colors Finish, Add	1,369.83	
08 91 19 00-0224	EA		96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,107.01	224.51
			Note: Includes bird screen.		
			For Flange Frame, Add	265.80	
			For Clear Lacquer Finish, Add	531.60	
			For Baked Enamel Standard Colors, Add	797.40	
			For Anodized Finish, Add	1,063.20	
			For Kynar™ Standard Colors Finish, Add	1,461.90	
08 91 19 00-0225	EA		96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,264.08	233.14
			Note: Includes bird screen.		
			For Flange Frame, Add	279.78	
			For Clear Lacquer Finish, Add	559.56	
			For Baked Enamel Standard Colors, Add	839.34	
			For Anodized Finish, Add	1,119.12	
			For Kynar™ Standard Colors Finish, Add	1,538.79	
08 91 19 00-0226	EA		96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,513.55	241.77
			Note: Includes bird screen.		
			For Flange Frame, Add	303.00	
			For Clear Lacquer Finish, Add	606.00	
			For Baked Enamel Standard Colors, Add	909.00	
			For Anodized Finish, Add	1,212.00	
			For Kynar™ Standard Colors Finish, Add	1,666.50	
08 91 19 00-0227			Gable Louver Vents (08 91 19)		
			Note: 1" deep, residential/light commercial grade louvers.		
08 91 19 00-0228			Aluminum Gable Louver Vents (08 91 19 00-0227)		
			Note: Includes screen.		
08 91 19 00-0229			Rectangular Aluminum Gable Louver Vents (08 91 19 00-0228)		
			Note: Includes screen.		
08 91 19 00-0230	EA		12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....	144.26	8.60
08 91 19 00-0231	EA		12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	158.23	9.87
08 91 19 00-0232	EA		18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	182.35	11.14
08 91 19 00-0233	EA		18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	199.65	11.86
08 91 19 00-0234	EA		24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	227.09	12.55
08 91 19 00-0235	EA		24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	254.90	15.05
08 91 19 00-0236	EA		30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	296.61	18.81



		Openings	08
		Louvers And Vents	08 90
		Louvers	08 91

08

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0237	EA	30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	331.38	21.95	
08 91 19 00-0238	EA	36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	380.06	26.35	
08 91 19 00-0239	EA	42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....	477.39	35.11	
08 91 19 00-0240 Square Aluminum Gable Louver Vents (08 91 19 00-0228)					
Note: Includes screen.					
08 91 19 00-0241	EA	12" x 12" Square Fixed Aluminum Gable Louver Vent	132.09	7.91	
08 91 19 00-0242	EA	18" x 18" Square Fixed Aluminum Gable Louver Vent	163.78	10.04	
08 91 19 00-0243	EA	24" x 24" Square Fixed Aluminum Gable Louver Vent	204.71	11.85	
08 91 19 00-0244	EA	30" x 30" Square Fixed Aluminum Gable Louver Vent	261.85	15.68	
08 91 19 00-0245	EA	36" x 36" Square Fixed Aluminum Gable Louver Vent	338.34	22.58	
08 91 19 00-0246	EA	42" x 42" Square Fixed Aluminum Gable Louver Vent	428.65	30.71	
08 91 19 00-0247	EA	48" x 48" Square Fixed Aluminum Gable Louver Vent	533.03	40.13	
08 91 19 00-0248 Round Aluminum Gable Louver Vents (08 91 19 00-0228)					
Note: Includes screen.					
08 91 19 00-0249	EA	12" Diameter Round Fixed Aluminum Gable Louver Vent.....	132.09	7.91	
08 91 19 00-0250	EA	18" Diameter Round Fixed Aluminum Gable Louver Vent.....	163.78	10.04	
08 91 19 00-0251	EA	24" Diameter Round Fixed Aluminum Gable Louver Vent.....	204.71	11.85	
08 91 19 00-0252	EA	30" Diameter Round Fixed Aluminum Gable Louver Vent.....	261.85	15.68	
08 91 19 00-0253	EA	36" Diameter Round Fixed Aluminum Gable Louver Vent.....	338.34	22.58	
08 91 19 00-0254	EA	42" Diameter Round Fixed Aluminum Gable Louver Vent.....	428.72	30.73	
08 91 19 00-0255 Octagonal Aluminum Gable Louver Vents (08 91 19 00-0228)					
Note: Includes screen.					
08 91 19 00-0256	EA	12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....	132.09	7.91	
08 91 19 00-0257	EA	12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	144.26	8.60	
08 91 19 00-0258	EA	12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	158.23	9.87	
08 91 19 00-0259	EA	18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	163.78	10.04	
08 91 19 00-0260	EA	18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	182.35	11.14	
08 91 19 00-0261	EA	18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	199.65	11.86	
08 91 19 00-0262	EA	24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	204.71	11.85	
08 91 19 00-0263	EA	24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	227.09	12.55	
08 91 19 00-0264	EA	24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	254.90	15.05	
08 91 19 00-0265	EA	30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	261.85	15.68	
08 91 19 00-0266	EA	30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	296.61	18.81	
08 91 19 00-0267	EA	30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	331.38	21.95	
08 91 19 00-0268	EA	36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	338.34	22.58	
08 91 19 00-0269	EA	36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	380.06	26.35	
08 91 19 00-0270	EA	36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	421.78	30.11	
08 91 19 00-0271	EA	42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	428.72	30.73	
08 91 19 00-0272	EA	42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	477.39	35.11	
08 91 19 00-0273	EA	48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	533.03	40.13	
08 91 19 00-0274 Round Top Aluminum Gable Louver Vents (08 91 19 00-0228)					
Note: Includes screen.					
08 91 19 00-0275	EA	12" x 12" Round Top Fixed Aluminum Gable Louver Vent	132.09	7.91	
08 91 19 00-0276	EA	12" x 18" Round Top Fixed Aluminum Gable Louver Vent	144.26	8.60	
08 91 19 00-0277	EA	12" x 24" Round Top Fixed Aluminum Gable Louver Vent	158.23	9.87	
08 91 19 00-0278	EA	18" x 18" Round Top Fixed Aluminum Gable Louver Vent	163.78	10.04	
08 91 19 00-0279	EA	18" x 24" Round Top Fixed Aluminum Gable Louver Vent	182.35	11.14	
08 91 19 00-0280	EA	18" x 30" Round Top Fixed Aluminum Gable Louver Vent	199.65	11.86	
08 91 19 00-0281	EA	24" x 24" Round Top Fixed Aluminum Gable Louver Vent	204.71	11.85	
08 91 19 00-0282	EA	24" x 30" Round Top Fixed Aluminum Gable Louver Vent	227.09	12.55	
08 91 19 00-0283	EA	24" x 36" Round Top Fixed Aluminum Gable Louver Vent	254.90	15.05	
08 91 19 00-0284	EA	30" x 30" Round Top Fixed Aluminum Gable Louver Vent	261.85	15.68	
08 91 19 00-0285	EA	30" x 36" Round Top Fixed Aluminum Gable Louver Vent	296.61	18.81	
08 91 19 00-0286	EA	30" x 42" Round Top Fixed Aluminum Gable Louver Vent	331.38	21.95	
08 91 19 00-0287	EA	36" x 36" Round Top Fixed Aluminum Gable Louver Vent	338.34	22.58	
08 91 19 00-0288	EA	36" x 42" Round Top Fixed Aluminum Gable Louver Vent	380.06	26.35	
08 91 19 00-0289	EA	36" x 48" Round Top Fixed Aluminum Gable Louver Vent	421.78	30.11	
08 91 19 00-0290	EA	42" x 42" Round Top Fixed Aluminum Gable Louver Vent	428.72	30.73	
08 91 19 00-0291	EA	42" x 48" Round Top Fixed Aluminum Gable Louver Vent	477.39	35.11	
08 91 19 00-0292	EA	48" x 48" Round Top Fixed Aluminum Gable Louver Vent	533.03	40.13	
08 91 19 00-0293 Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)					
Note: Includes screen.					
08 91 19 00-0294	EA	36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	269.77	9.87	
08 91 19 00-0295	EA	36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	306.11	11.85	
08 91 19 00-0296	EA	48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	328.49	12.55	
08 91 19 00-0297	EA	48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	376.58	15.05	
08 91 19 00-0298	EA	48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	419.02	15.68	
08 91 19 00-0299	EA	60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	347.31	18.81	
08 91 19 00-0300	EA	60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	407.43	21.95	
08 91 19 00-0301	EA	60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	460.02	22.58	
08 91 19 00-0302	EA	60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	522.02	26.35	

08 Openings**08 90 Louvers And Vents****08 91 Louvers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0303 EA 72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	421.78	30.11
08 91 19 00-0304 EA 72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	484.49	30.73
08 91 19 00-0305 EA 72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	558.51	35.11
08 91 19 00-0306 EA 72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	634.43	40.13
08 91 19 00-0307 EA 72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....	713.23	46.12
08 91 19 00-0308 Vinyl Gable Louver Vents (08 91 19 00-0227)		
Note: Includes screen.		
08 91 19 00-0309 EA 12" x 12" Square Fixed Vinyl Gable Louver Vent.....	47.19	7.91
08 91 19 00-0310 EA 12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....	56.26	8.60
08 91 19 00-0311 EA 18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....	76.33	11.14
08 91 19 00-0312 EA 24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....	102.41	12.55
08 91 19 00-0313 EA 18" Diameter Round Fixed Vinyl Gable Louver Vent.....	73.29	10.04
08 91 19 00-0314 EA 22" Diameter Round Fixed Vinyl Gable Louver Vent.....	84.90	11.85
08 91 19 00-0315 EA 30" Diameter Round Fixed Vinyl Gable Louver Vent.....	118.90	15.68
08 91 19 00-0316 EA 36" Diameter Round Fixed Vinyl Gable Louver Vent.....	173.52	22.58
08 91 19 00-0317 EA 18" x 18" Octagonal Fixed Vinyl Gable Louver Vent.....	73.29	10.04
08 91 19 00-0318 EA 22" x 22" Octagonal Fixed Vinyl Gable Louver Vent.....	82.82	11.14
08 91 19 00-0319 EA 27" x 27" Octagonal Fixed Vinyl Gable Louver Vent.....	105.40	12.55
08 91 19 00-0320 EA 32" x 32" Octagonal Fixed Vinyl Gable Louver Vent.....	150.45	18.81
08 91 19 00-0321 EA 40" x 40" Octagonal Fixed Vinyl Gable Louver Vent.....	346.15	30.11
08 91 19 00-0322 EA 14" x 22" Round Top Fixed Vinyl Gable Louver Vent.....	71.86	9.87
08 91 19 00-0323 EA 22" x 32" Round Top Fixed Vinyl Gable Louver Vent.....	99.20	12.55
08 91 19 00-0324 EA 34" x 22" Half Round Fixed Vinyl Gable Louver Vent.....	104.40	15.05
08 91 19 00-0325 EA 52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	227.24	18.81
08 91 19 00-0326 EA 56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	227.24	18.81
08 91 19 00-0327 EA 56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	227.24	18.81
08 91 19 00-0328 EA 62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	227.24	18.81
08 91 19 00-0329 EA 62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent.....	227.24	18.81
08 91 19 00-0330 EA 70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent.....	261.15	30.11
08 91 19 00-0331 EA 70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	261.15	30.11
08 91 19 00-0332 EA 72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent.....	261.15	30.11
08 91 19 00-0333 EA 74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	261.15	30.11
08 95 Vents (08 90)		
08 95 13 Soffit Vents (08 95)		
08 95 13 00-0001 Aluminum Soffit Vents (08 95 13)		
08 95 13 00-0002 LF 2-1/2" Wide Aluminum Soffit Vent.....	6.26	2.65
08 95 13 00-0003 LF 3" Wide Aluminum Soffit Vent.....	12.04	5.18
08 95 13 00-0004 EA 4" x 16" Under Eave Vent, Mill Finish	17.31	6.90
08 95 13 00-0005 EA 8" x 16" Under Eave Vent, Mill Finish	17.56	6.90
08 95 13 00-0006 Vinyl Soffit Vents (08 95 13)		
08 95 13 00-0007 LF Up To 2" Vinyl Soffit Vent, Perforated, White.....	4.41	1.91
For Colors, Add	0.06	
08 95 13 00-0008 LF 3" To 4" Vinyl Soffit Vent, Perforated, White	4.48	1.91
For Colors, Add	0.07	
08 95 16 Wall Vents (08 95)		
08 95 16 00-0001 Foundation Vents (08 95 16)		
08 95 16 00-0002 SI Galvanized Steel Foundation Vent.....	0.42	0.16
08 95 16 00-0003 SI Aluminum Foundation Vent.....	0.43	0.16
08 95 16 00-0004 SI Stainless Steel Foundation Vent.....	0.97	0.16
08 95 16 00-0005 SI Plastic Foundation Vent.....	0.32	0.16

END OF SECTION 08



		Finishes	09	09
		Ceilings	09 50	
		Acoustical Ceilings	09 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 50 Ceilings⁽⁰⁹⁾

Note: Includes cutting for area around columns, speakers, sprinklers, diffusers, etc.

09 51 Acoustical Ceilings^(09 50)

Note: Excludes suspension system. See CSI section 09 53 00 00-0000 for suspension systems.

09 51 13 Acoustical Panel Ceilings^(09 51)

Note: Includes cutting around sprinkler heads, speakers, or other penetrations through the ceiling.

09 51 13 00-0001 Fiberglass Panels^(09 51 13)

09 51 13 00-0002 Fiberglass Acoustical Panels^(09 51 13 00-0001)

09 51 13 00-0003	SF	2' x 2' x 5/8" Fiberglass Acoustical Ceiling Panel.....	1.81	0.45
		For Recessed Edge, Add	0.35	
		For Fire Rated Panels, Add	0.56	
		For Up To 50, Add	0.68	
		For >50 To 200, Add	0.39	
		For >200 To 500, Add	0.14	
		For >2,500 To 4,000, Deduct	-0.04	
		For >4,000 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.13	
		For Individual Room Quantities <495, Add	0.19	
		Note: For use with projects >500 SF		
		For Acid Resistive, Add	2.50	
		For Black Ceiling Tiles, Add	0.43	
		For Ceilings >10' High, Add	0.08	
09 51 13 00-0004	SF	2' x 4' x 5/8" Fiberglass Acoustical Ceiling Panel.....	1.79	0.45
		For Recessed Edge, Add	0.35	
		For Fire Rated Panels, Add	0.55	
		For Up To 50, Add	0.67	
		For >50 To 200, Add	0.38	
		For >200 To 500, Add	0.14	
		For >2,500 To 4,000, Deduct	-0.04	
		For >4,000 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.13	
		For Individual Room Quantities <495, Add	0.19	
		Note: For use with projects >500 SF		
		For Acid Resistive, Add	2.50	
		For Black Ceiling Tiles, Add	0.43	
		For Ceilings >10' High, Add	0.08	
09 51 13 00-0005	SF	2' x 2' x 3/4" Fiberglass Acoustical Ceiling Panel.....	3.41	0.45
		For Recessed Edge, Add	0.35	
		For Fire Rated Panels, Add	0.56	
		For Up To 50, Add	0.92	
		For >50 To 200, Add	0.55	
		For >200 To 500, Add	0.22	
		For >2,500 To 4,000, Deduct	-0.07	
		For >4,000 To 5,000, Deduct	-0.12	
		For >5,000, Deduct	-0.20	
		For Individual Room Quantities <495, Add	0.27	
		Note: For use with projects >500 SF		
		For Acid Resistive, Add	2.50	
		For Black Ceiling Tiles, Add	1.31	
		For Ceilings >10' High, Add	0.08	
09 51 13 00-0006	SF	2' x 4' x 3/4" Fiberglass Acoustical Ceiling Panel.....	3.41	0.45
		For Recessed Edge, Add	0.35	
		For Fire Rated Panels, Add	0.56	
		For Up To 50, Add	0.92	
		For >50 To 200, Add	0.55	
		For >200 To 500, Add	0.22	
		For >2,500 To 4,000, Deduct	-0.07	
		For >4,000 To 5,000, Deduct	-0.12	
		For >5,000, Deduct	-0.20	
		For Individual Room Quantities <495, Add	0.27	
		Note: For use with projects >500 SF		
		For Acid Resistive, Add	2.50	
		For Black Ceiling Tiles, Add	1.31	
		For Ceilings >10' High, Add	0.08	
09 51 13 00-0007	SF	2' x 2' x 1" Fiberglass Acoustical Ceiling Panel.....	3.61	0.54
		For Recessed Edge, Add	0.35	
		For Fire Rated Panels, Add	0.56	
		For Up To 50, Add	0.95	
		For >50 To 200, Add	0.57	
		For >200 To 500, Add	0.23	
		For >2,500 To 4,000, Deduct	-0.08	
		For >4,000 To 5,000, Deduct	-0.13	
		For >5,000, Deduct	-0.21	
		For Individual Room Quantities <495, Add	0.28	
		Note: For use with projects >500 SF		
		For Acid Resistive, Add	2.50	
		For Ceilings >10' High, Add	0.08	

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0008	SF		2' x 4' x 1" Fiberglass Acoustical Ceiling Panel.....	3.61	0.54
			For Recessed Edge, Add	0.35	
			For Fire Rated Panels, Add	0.56	
			For Up To 50, Add	0.95	
			For >50 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.21	
			For Individual Room Quantities <495, Add	0.28	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Ceilings >10' High, Add	0.08	
09 51 13 00-0009			Glass Cloth Faced Fiberglass Panels (09 51 13 00-0001)		
09 51 13 00-0010	SF		3/4" Thick Glass Cloth Faced Fiberglass Acoustical Ceiling Panels.....	3.47	0.54
			For Fire Rated Panels, Add	0.61	
			For Up To 50, Add	1.04	
			For >50 To 200, Add	0.61	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.22	
			For Individual Room Quantities <495, Add	0.30	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Ceilings >10' High, Add	0.10	
09 51 13 00-0011	SF		1" Thick Glass Cloth Faced Fiberglass Acoustical Ceiling Panels.....	3.74	0.54
			For Fire Rated Panels, Add	0.61	
			For Up To 50, Add	1.08	
			For >50 To 200, Add	0.63	
			For >200 To 500, Add	0.25	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.23	
			For Individual Room Quantities <495, Add	0.32	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Ceilings >10' High, Add	0.10	
09 51 13 00-0012	SF		1-1/2" Thick Glass Cloth Faced Fiberglass Acoustical Ceiling Panels.....	5.21	0.90
			For Fire Rated Panels, Add	0.69	
			For Up To 50, Add	1.46	
			For >50 To 200, Add	0.86	
			For >200 To 500, Add	0.35	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.19	
			For >5,000, Deduct	-0.31	
			For Individual Room Quantities <495, Add	0.43	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Ceilings >10' High, Add	0.13	
09 51 13 00-0013	SF		2" Thick Glass Cloth Faced Fiberglass Acoustical Ceiling Panels.....	6.52	0.90
			For Fire Rated Panels, Add	0.69	
			For Up To 50, Add	1.65	
			For >50 To 200, Add	0.99	
			For >200 To 500, Add	0.41	
			For >2,500 To 4,000, Deduct	-0.14	
			For >4,000 To 5,000, Deduct	-0.23	
			For >5,000, Deduct	-0.36	
			For Individual Room Quantities <495, Add	0.50	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Ceilings >10' High, Add	0.13	
09 51 13 00-0014			Mineral Fiber Panels (09 51 13)		
09 51 13 00-0015			Mineral Fiber Acoustical Ceiling Panels (09 51 13 00-0014)		
09 51 13 00-0016	SF		1' x 2' x 3/4" Mineral Fiber Acoustical Ceiling Panels.....	2.13	0.54
			For Vinyl Faced Panels, Add	1.15	
			For Fire Rated Panels, Add	0.58	
			For Moisture Resistant Panels, Add	1.15	
			For Up To 50, Add	0.77	
			For >50 To 200, Add	0.44	
			For >200 To 500, Add	0.16	
			For >2,500 To 4,000, Deduct	-0.05	
			For >4,000 To 5,000, Deduct	-0.09	
			For >5,000, Deduct	-0.15	
			For Individual Room Quantities <495, Add	0.22	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Rough Texture, Add	0.13	
			For Integrated Wood Trim, Add	7.75	
			For Vertical Application, Add	0.51	
			For Single Angled Tegalur Edge (Reveal), Add	0.56	
			For Ceilings >10' High, Add	0.08	



		Finishes	09	09
		Ceilings	09 50	
		Acoustical Ceilings	09 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0017	SF	2' x 2' x 5/8"	Mineral Fiber Acoustical Ceiling Panels.....	1.55	0.54
			For Vinyl Faced Panels, Add	1.11	
			For Fire Rated Panels, Add	0.56	
			For Vinyl-Coated Aluminum Foil Surfaced, Add	1.40	
			For Moisture Resistant Panels, Add	1.11	
			For Up To 50, Add	0.64	
			For >50 To 200, Add	0.36	
			For >200 To 500, Add	0.13	
			For >2,500 To 4,000, Deduct	-0.04	
			For >4,000 To 5,000, Deduct	-0.07	
			For >5,000, Deduct	-0.12	
			For Individual Room Quantities <495, Add	0.18	
			Note: For use with projects >500 SF		
			For Acid Resistive, Add	2.50	
			For Rough Texture, Add	0.07	
			For Integrated Wood Trim, Add	7.68	
			For Vertical Application, Add	0.46	
			For Single Angled Tegular Edge (Reveal), Add	0.34	
			For Black Ceiling Tiles, Add	0.29	
			For Ceilings >10' High, Add	0.08	
09 51 13 00-0018	SF	2' x 2' x 3/4"	Mineral Fiber Acoustical Ceiling Panels.....	2.18	0.54
			For Premium Grade (Eclipse Or Cirrus, With Minimum .70 NRC) Ceiling Tile, Add	0.29	
			For Vinyl Faced Panels, Add	1.11	
			For Fire Rated Panels, Add	0.56	
			For Moisture Resistant Panels, Add	1.11	
			For Up To 50, Add	0.74	
			For >50 To 200, Add	0.42	
			For >200 To 500, Add	0.16	
			For >2,500 To 4,000, Deduct	-0.05	
			For >4,000 To 5,000, Deduct	-0.09	
			For >5,000, Deduct	-0.15	
			For Individual Room Quantities <495, Add	0.21	
			Note: For use with projects >500 SF		
			For Integrated Wood Trim, Add	7.93	
			For Acid Resistive, Add	2.50	
			For Rough Texture, Add	0.14	
			For Vertical Application, Add	0.46	
			For Single Angled Tegular Edge (Reveal), Add	0.62	
			For Scored Acoustical Tile, Add	0.25	
			For Black Ceiling Tiles, Add	0.63	
			For Ceilings >10' High, Add	0.08	
09 51 13 00-0019	SF	2' x 4' x 5/8"	Mineral Fiber Acoustical Ceiling Panels.....	1.53	0.54
			For Vinyl Faced Panels, Add	1.10	
			For Fire Rated Panels, Add	0.55	
			For Vinyl-Coated Aluminum Foil Surfaced, Add	1.40	
			For Moisture Resistant Panels, Add	1.10	
			For Up To 50, Add	0.63	
			For >50 To 200, Add	0.36	
			For >200 To 500, Add	0.13	
			For >2,500 To 4,000, Deduct	-0.04	
			For >4,000 To 5,000, Deduct	-0.07	
			For >5,000, Deduct	-0.12	
			For Individual Room Quantities <495, Add	0.18	
			Note: For use with projects >500 SF		
			For Integrated Wood Trim, Add	9.17	
			For Acid Resistive, Add	2.50	
			For Rough Texture, Add	0.07	
			For Vertical Application, Add	0.45	
			For Single Angled Tegular Edge (Reveal), Add	0.34	
			For Black Ceiling Tiles, Add	0.29	
			For Ceilings >10' High, Add	0.08	
09 51 13 00-0020	SF	2' x 4' x 3/4"	Mineral Fiber Acoustical Ceiling Panels.....	2.16	0.54
			For Premium Grade (Eclipse Or Cirrus, With Minimum .70 NRC) Ceiling Tile, Add	0.29	
			For Vinyl Faced Panels, Add	1.10	
			For Fire Rated Panels, Add	0.55	
			For Moisture Resistant Panels, Add	1.10	
			For Up To 50, Add	0.73	
			For >50 To 200, Add	0.42	
			For >200 To 500, Add	0.16	
			For >2,500 To 4,000, Deduct	-0.05	
			For >4,000 To 5,000, Deduct	-0.09	
			For >5,000, Deduct	-0.15	
			For Individual Room Quantities <495, Add	0.21	
			Note: For use with projects >500 SF		
			For Integrated Wood Trim, Add	9.42	
			For Acid Resistive, Add	2.50	
			For Rough Texture, Add	0.14	
			For Vertical Application, Add	0.45	
			For Single Angled Tegular Edge (Reveal), Add	0.62	
			For Scored Acoustical Tile, Add	0.25	
			For Black Ceiling Tiles, Add	0.63	
			For Ceilings >10' High, Add	0.08	

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0021	SF		2' x 5' x 5/8" Mineral Fiber Acoustical Ceiling Panels.....	1.51	0.54
			For Vinyl Faced Panels, Add	1.10	
			For Fire Rated Panels, Add	0.55	
			For Moisture Resistant Panels, Add	1.10	
			For Up To 50, Add	0.62	
			For >50 To 200, Add	0.35	
			For >200 To 500, Add	0.13	
			For >2,500 To 4,000, Deduct	-0.04	
			For >4,000 To 5,000, Deduct	-0.07	
			For >5,000, Deduct	-0.12	
			For Individual Room Quantities <495, Add	0.17	
			Note: For use with projects >500 SF		
			For Integrated Wood Trim, Add	9.40	
			For Acid Resistive, Add	2.50	
			For Rough Texture, Add	0.07	
			For Vertical Application, Add	0.45	
			For Single Angled Tegular Edge (Reveal), Add	0.33	
			For Ceilings >10' High, Add	0.07	
09 51 13 00-0022			Wood Fiber Panels (09 51 13)		
09 51 13 00-0023	SF		2' x 2' x 1/2" Wood Fiber Acoustical Ceiling Panels.....	2.86	0.72
			For Up To 50, Add	1.08	
			For >50 To 200, Add	0.61	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.21	
			For Individual Room Quantities <495, Add	0.31	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0024	SF		2' x 4' x 1/2" Wood Fiber Acoustical Ceiling Panels.....	2.69	0.63
			For Up To 50, Add	0.98	
			For >50 To 200, Add	0.56	
			For >200 To 500, Add	0.21	
			For >2,500 To 4,000, Deduct	-0.06	
			For >4,000 To 5,000, Deduct	-0.11	
			For >5,000, Deduct	-0.19	
			For Individual Room Quantities <495, Add	0.28	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0025	SF		2' x 2' x 5/8" Wood Fiber Acoustical Ceiling Panels.....	3.42	0.72
			For Up To 50, Add	1.16	
			For >50 To 200, Add	0.67	
			For >200 To 500, Add	0.25	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.23	
			For Individual Room Quantities <495, Add	0.33	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0026	SF		2' x 4' x 5/8" Wood Fiber Acoustical Ceiling Panels.....	3.25	0.63
			For Up To 50, Add	1.07	
			For >50 To 200, Add	0.62	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.22	
			For Individual Room Quantities <495, Add	0.31	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0027	SF		2' x 2' x 3/4" Wood Fiber Acoustical Ceiling Panels.....	3.96	0.72
			For Up To 50, Add	1.24	
			For >50 To 200, Add	0.72	
			For >200 To 500, Add	0.28	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.15	
			For >5,000, Deduct	-0.26	
			For Individual Room Quantities <495, Add	0.36	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.12	



Finishes			09
Ceilings			09 50
Acoustical Ceilings			09 51

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0028	SF	2' x 4' x 3/4"	Wood Fiber Acoustical Ceiling Panels.....	3.79	0.63
			For Up To 50, Add	1.15	
			For >50 To 200, Add	0.67	
			For >200 To 500, Add	0.26	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.24	
			For Individual Room Quantities <495, Add	0.33	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0029	SF	2' x 2' x 1"	Wood Fiber Acoustical Ceiling Panels.....	3.19	0.72
			For Up To 50, Add	1.13	
			For >50 To 200, Add	0.64	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.22	
			For Individual Room Quantities <495, Add	0.32	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0030	SF	2' x 4' x 1"	Wood Fiber Acoustical Ceiling Panels.....	3.02	0.63
			For Up To 50, Add	1.03	
			For >50 To 200, Add	0.59	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.21	
			For Individual Room Quantities <495, Add	0.30	
			Note: For use with projects >500 SF		
			For Flameproofing, Add	0.05	
			For Sculptured, 3 Dimensional, Add	0.10	
			For Ceilings >10' High, Add	0.11	
09 51 13 00-0031			Removal And Reinstallation Of Acoustical Ceiling Panels (09 51 13)		
			Note: 2'x2' Or 2'x4'. Includes storage and cleaning.		
09 51 13 00-0032	SF		Removal And Reinstallation Of Acoustical Ceiling Tile And Grid, 2' x 2' Or 2' x 4'.....	1.33	
			For Ceilings >10' High, Add	0.10	
09 51 13 00-0033	SF		Removal And Reinstallation Of Acoustical Panels Only	0.86	
			For Ceilings >10' High, Add	0.06	
09 51 13 00-0034	SF		Removal And Reinstallation Of Grid System Only	0.80	
			For Ceilings >10' High, Add	0.06	
09 51 23			Acoustical Tile Ceilings (09 51)		
			Note: Includes fastening with staples and/or adhesive.		
09 51 23 00-0001			Mineral Fiber Acoustical Tile Ceilings (09 51 23)		
09 51 23 00-0002	SF	12" x 12" x 1/2"	Tongue And Groove Mineral Fiber Acoustical Ceiling Tile	3.87	1.00
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	1.48	
			For >50 To 200, Add	0.84	
			For >200 To 500, Add	0.31	
			For >2,500, Deduct	-0.19	
			For Ceilings >10' High, Add	0.17	
09 51 23 00-0003	SF	12" x 12" x 5/8"	Spline Mineral Fiber Acoustical Ceiling Tile.....	4.48	1.00
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	1.58	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.34	
			For >2,500, Deduct	-0.22	
			For Placing Tiles In Suspended Ceiling System, Deduct	-0.26	
			For Ceilings >10' High, Add	0.17	
09 51 23 00-0004	SF	12" x 12" x 3/4"	Spline Mineral Fiber Acoustical Ceiling Tile.....	4.96	1.00
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	1.65	
			For >50 To 200, Add	0.95	
			For >200 To 500, Add	0.36	
			For >2,500, Deduct	-0.25	
			For Placing Tiles In Suspended Ceiling System, Deduct	-0.26	
			For Ceilings >10' High, Add	0.17	
09 51 23 00-0005			Wood Fiber Acoustical Tile Ceilings (09 51 23)		
09 51 23 00-0006	SF	12" x 12" x 1/2"	Staple Flange Wood Fiber Acoustical Ceiling Tile.....	3.62	1.00
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	1.45	
			For >50 To 200, Add	0.81	
			For >200 To 500, Add	0.29	
			For >2,500, Deduct	-0.18	
			For Ceilings >10' High, Add	0.17	

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 51 33 Acoustical Metal Pan Ceilings (09 51)**09 51 33 13 Acoustical Snap-in Metal Pan Ceilings** (09 51 33)**09 51 33 13-0001 Metal Pan Units, 24 GA Steel** (09 51 33 13)

Note: Excludes pads.

09 51 33 13-0002	SF	12" x 12" - 24 Gauge, Acoustical Metal Pan Units	15.03	1.18
		For Up To 50, Add	3.29	
		For >50 To 200, Add	2.02	
		For >200 To 500, Add	0.88	
		For >2,500, Deduct	-0.75	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0003	SF	12" x 24" - 24 Gauge, Acoustical Metal Pan Units	15.92	1.18
		For Up To 50, Add	3.42	
		For >50 To 200, Add	2.11	
		For >200 To 500, Add	0.93	
		For >2,500, Deduct	-0.80	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0004	SF	12" x 12" - 0.025" Thick, Acoustical Aluminum Pan	9.64	1.18
		For Up To 50, Add	2.48	
		For >50 To 200, Add	1.48	
		For >200 To 500, Add	0.61	
		For >2,500, Deduct	-0.48	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0005	SF	12" x 24" - 0.025" Thick, Acoustical Aluminum Pan	10.37	1.18
		For Up To 50, Add	2.59	
		For >50 To 200, Add	1.55	
		For >200 To 500, Add	0.65	
		For >2,500, Deduct	-0.52	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0006	SF	12" x 12" - 0.025" Thick, Acoustical Anodized Aluminum Pan Units	13.91	1.18
		For Up To 50, Add	3.12	
		For >50 To 200, Add	1.91	
		For >200 To 500, Add	0.82	
		For >2,500, Deduct	-0.70	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0007	SF	12" x 24" - 0.025" Thick, Acoustical Anodized Aluminum Pan Units	10.19	1.18
		For Up To 50, Add	2.56	
		For >50 To 200, Add	1.54	
		For >200 To 500, Add	0.64	
		For >2,500, Deduct	-0.51	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0008	SF	12" x 12" - 24 Gauge, Stainless Steel Acoustical Pan Units	34.74	1.18
		For Up To 50, Add	6.24	
		For >50 To 200, Add	3.99	
		For >200 To 500, Add	1.87	
		For >2,500, Deduct	-1.74	
		For Ceilings >10' High, Add	0.19	
09 51 33 13-0009	SF	12" x 24" - 24 Gauge, Stainless Steel Acoustical Pan Units	19.72	1.18
		For Up To 50, Add	3.99	
		For >50 To 200, Add	2.49	
		For >200 To 500, Add	1.12	
		For >2,500, Deduct	-0.99	
		For Ceilings >10' High, Add	0.19	

09 51 33 13-0010 Galvanized Steel, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)

09 51 33 13-0011	SF	24" x 24", Unperforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™)	12.18	0.79
09 51 33 13-0012	SF	24" x 24", Perforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™)	13.00	0.79

09 51 33 13-0013 Aluminum, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)

09 51 33 13-0014	SF	24" x 24", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	9.27	0.90
09 51 33 13-0015	SF	24" x 24", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.36	0.90
09 51 33 13-0016	SF	24" x 24", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	29.57	0.90
09 51 33 13-0017	SF	24" x 24", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.67	0.90
09 51 33 13-0018	SF	24" x 24", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	9.76	0.90
09 51 33 13-0019	SF	24" x 24", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	14.98	0.90
09 51 33 13-0020	SF	24" x 24", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	29.35	0.90
09 51 33 13-0021	SF	24" x 24", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.57	0.90
09 51 33 13-0022	SF	30" x 30", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	12.42	0.90
09 51 33 13-0023	SF	30" x 30", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	16.18	0.90



Finishes		09	09
Ceilings		09 50	
Acoustical Ceilings		09 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 33 13-0024	SF		30" x 30", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	32.56	0.90
09 51 33 13-0025	SF		30" x 30", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	16.01	0.90
09 51 33 13-0026	SF		30" x 30", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.13	0.90
09 51 33 13-0027	SF		30" x 30", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	16.56	0.90
09 51 33 13-0028	SF		30" x 30", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	33.65	0.90
09 51 33 13-0029	SF		30" x 30", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	16.39	0.90
09 51 33 13-0030	SF		12" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	11.28	0.90
09 51 33 13-0031	SF		12" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.14	0.90
09 51 33 13-0032	SF		12" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	31.85	0.90
09 51 33 13-0033	SF		12" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.63	0.90
09 51 33 13-0034	SF		12" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	12.10	0.90
09 51 33 13-0035	SF		12" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.35	0.90
09 51 33 13-0036	SF		12" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	32.99	0.90
09 51 33 13-0037	SF		12" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	16.12	0.90
09 51 33 13-0038	SF		24" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	9.04	0.90
09 51 33 13-0039	SF		24" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.61	0.90
09 51 33 13-0040	SF		24" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	27.76	0.90
09 51 33 13-0041	SF		24" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	12.96	0.90
09 51 33 13-0042	SF		24" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	9.58	0.90
09 51 33 13-0043	SF		24" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.50	0.90
09 51 33 13-0044	SF		24" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	27.81	0.90
09 51 33 13-0045	SF		24" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	12.96	0.90

09 51 33 23 Acoustical Lay-in Metal Pan Ceilings (09 51 33)

09 51 33 23-0001 Acoustical Lay-In Metal Pan Ceilings (09 51 33 23)

09 51 33 23-0002 Aluminum, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0003	SF	24" x 24", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	9.52	0.67
09 51 33 23-0004	SF	24" x 24", Unperforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	10.75	0.67
09 51 33 23-0005	SF	24" x 24", Unperforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	15.65	0.67
09 51 33 23-0006	SF	24" x 24", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	13.33	0.67
09 51 33 23-0007	SF	24" x 24", Perforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	14.29	0.67
09 51 33 23-0008	SF	24" x 24", Perforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	22.31	0.67
09 51 33 23-0009	SF	30" x 30", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	14.07	0.67
09 51 33 23-0010	SF	30" x 30", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	17.38	0.67
09 51 33 23-0011	SF	48" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	14.15	0.67
09 51 33 23-0012	SF	48" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	17.48	0.67
09 51 33 23-0013	SF	12" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	14.22	0.67
09 51 33 23-0014	SF	12" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	17.41	0.67
09 51 33 23-0015	SF	24" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	14.22	0.67
09 51 33 23-0016	SF	24" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	17.55	0.67

09 51 33 23-0017 Steel, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0018	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	12.20	0.67
09 51 33 23-0019	SF	24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	14.49	0.67
09 51 33 23-0020	SF	24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	15.52	0.67
09 51 33 23-0021	SF	24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	14.60	0.67
09 51 33 23-0022	SF	24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	14.98	0.67
09 51 33 23-0023	SF	24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	15.85	0.67

09 51 33 33 Acoustical Tegular Lay-in Metal Pan Ceilings (09 51 33)

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
09 51 33 33-0001		Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33)			
09 51 33 33-0002		Steel, Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33-0001)			
09 51 33 33-0003	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	8.99		0.67
09 51 33 33-0004	SF	24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.08		0.67
09 51 33 33-0005	SF	24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	14.11		0.67
09 51 33 33-0006	SF	24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.19		0.67
09 51 33 33-0007	SF	24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	11.49		0.67
09 51 33 33-0008	SF	24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.36		0.67
09 53		Acoustical Ceiling Suspension Assemblies (09 50)			
09 53 23		Metal Acoustical Ceiling Suspension Assemblies (09 53)			
09 53 23 00-0001		Ceiling Suspension Systems (09 53 23)			
		Note: Hot-dipped galvanized steel. Includes single 8 gauge wire hangers (between 3' To 4') attached from structural steel, wood or metal deck, wood members or concrete deck above to main members 4' on center. Includes all main tees, cross tees, wall angle, wall anchors, connector clips, hold down clips, double faced tape (where required). All above shall be mechanically installed by minimum 2-1/4" x 3/8" wedge anchors. Excludes chain supports for lights.			
09 53 23 00-0002	SF	12" x 12" Ceiling Tile Size, Concealed 15/16" T Bar Ceiling Suspension System	3.98		0.45
		Note: Excludes ceiling tile.			
		For Vertical Application, Add	2.42		
		For Individual Room Quantities <495, Add	0.48		
		Note: For use with projects >500 SF			
		For Compression Struts With Splay Wires, Add	0.45		
		For Up To 50, Add	1.70		
		For >50 To 200, Add	0.95		
		For >200 To 500, Add	0.34		
		For >2,500 To 4,000, Deduct	-0.09		
		For >4,000 To 5,000, Deduct	-0.17		
		For >5,000, Deduct	-0.26		
		For Ceilings >10' High, Add	0.21		
09 53 23 00-0003	SF	1' x 2' Grid, 15/16" T Bar Ceiling Suspension System	3.28		0.45
		For UL Listed (Fire Guard), Add	0.13		
		For 1-1/2" Wide Faced Grid, Add	0.25		
		For Vertical Application, Add	2.09		
		For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50		
		For 9/16" Narrow Faced Grid, Add	0.22		
		For Individual Room Quantities <495, Add	0.40		
		Note: For use with projects >500 SF			
		For Aluminum T-Bar System, Add	0.40		
		For Compression Struts With Splay Wires, Add	0.36		
		For Up To 50, Add	1.45		
		For >50 To 200, Add	0.81		
		For >200 To 500, Add	0.28		
		For >2,500 To 4,000, Deduct	-0.08		
		For >4,000 To 5,000, Deduct	-0.15		
		For >5,000, Deduct	-0.21		
		For Ceilings >10' High, Add	0.18		
09 53 23 00-0004	SF	2' x 2' Grid, 15/16" T Bar Ceiling Suspension System	2.70		0.45
		For UL Listed (Fire Guard), Add	0.09		
		For 1-1/2" Wide Faced Grid, Add	0.17		
		For Vertical Application, Add	1.82		
		For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50		
		For 9/16" Narrow Faced Grid, Add	0.16		
		For Individual Room Quantities <495, Add	0.34		
		Note: For use with projects >500 SF			
		For Aluminum T-Bar System, Add	0.28		
		For Compression Struts With Splay Wires, Add	0.29		
		For Up To 50, Add	1.24		
		For >50 To 200, Add	0.69		
		For >200 To 500, Add	0.24		
		For >2,500 To 4,000, Deduct	-0.06		
		For >4,000 To 5,000, Deduct	-0.12		
		For >5,000, Deduct	-0.18		
		For Black Grid, Add	0.08		
		For Ceilings >10' High, Add	0.16		
		For Concealed Spline Grid, Add	0.36		



		Finishes	09	09
		Ceilings	09 50	
		Acoustical Ceiling Suspension Assemblies	09 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0005	SF		2' x 4' Grid, 15/16" T Bar Ceiling Suspension System	2.30	0.45
			For UL Listed (Fire Guard), Add	0.07	
			For 1-1/2" Wide Faced Grid, Add	0.14	
			For Vertical Application, Add	1.81	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For 9/16" Narrow Faced Grid, Add	0.12	
			For Individual Room Quantities <495, Add	0.30	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.22	
			For Compression Struts With Splay Wires, Add	0.25	
			For Up To 50, Add	1.07	
			For >50 To 200, Add	0.59	
			For >200 To 500, Add	0.21	
			For >2,500 To 4,000, Deduct	-0.06	
			For >4,000 To 5,000, Deduct	-0.11	
			For >5,000, Deduct	-0.16	
			For Black Grid, Add	0.06	
			For Ceilings >10' High, Add	0.14	
			For Concealed Spline Grid, Add	0.30	
09 53 23 00-0006	SF		2' x 5' Grid, 15/16" T Bar Ceiling Suspension System	2.20	0.45
			For UL Listed (Fire Guard), Add	0.08	
			For 1-1/2" Wide Faced Grid, Add	0.15	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For 9/16" Narrow Faced Grid, Add	0.14	
			For Individual Room Quantities <495, Add	0.28	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.25	
			For Compression Struts With Splay Wires, Add	0.24	
			For Up To 50, Add	0.99	
			For >50 To 200, Add	0.55	
			For >200 To 500, Add	0.19	
			For >2,500 To 4,000, Deduct	-0.05	
			For >4,000 To 5,000, Deduct	-0.10	
			For >5,000, Deduct	-0.15	
			For Ceilings >10' High, Add	0.12	
09 53 23 00-0007	SF		2', 15/16" Suspended Ceiling Cross Tee	0.65	0.26
			Note: Can be used to convert an existing 2' x 4' suspension system to a 2' x 2' system or to replace an individual component.		
			For 1-1/2" Wide Faced Grid, Add	0.04	
			For Vertical Application, Add	0.52	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For 9/16" Narrow Faced Grid, Add	0.03	
			For Individual Room Quantities <495, Add	0.08	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.06	
			For Up To 50, Add	0.31	
			For >50 To 200, Add	0.17	
			For >200 To 500, Add	0.06	
			For >2,500 To 4,000, Deduct	-0.02	
			For >4,000 To 5,000, Deduct	-0.03	
			For >5,000, Deduct	-0.04	
			For Ceilings >10' High, Add	0.04	
09 53 23 00-0008			Ceiling Suspension System Accessories (09 53 23)		
09 53 23 00-0009	LF		For Pencil Rod Support With Accessories And Attachments (Seismic Control Or Where Required).....	0.95	
09 53 23 00-0010	LF		1" x 1/8" Flat Bar Bracing For Suspended Ceiling	2.29	1.27
			For 304 Stainless Steel, Add	1.11	
			For 316 Stainless Steel, Add	1.25	
			For Aluminum, Add	0.07	
			For Galvanized Steel, Add	0.24	
09 53 23 00-0011	LF		1" x 3/16" Flat Bar Bracing For Suspended Ceiling	3.23	1.36
			For Galvanized Steel, Add	0.37	
			For 304 Stainless Steel, Add	1.71	
			For 316 Stainless Steel, Add	1.92	
			For Aluminum, Add	0.11	
			For Galvanized Steel, Add	0.37	
09 53 23 00-0012	LF		1-1/2" x 1/4" Flat Bar Bracing For Suspended Ceiling	4.18	1.45
			For Galvanized Steel, Add	0.74	
			For 304 Stainless Steel, Add	3.39	
			For 316 Stainless Steel, Add	3.81	
			For Aluminum, Add	0.21	
			For Galvanized Steel, Add	0.74	

09 54 Specialty Ceilings (09 50)

09 54 23 Linear Metal Ceilings (09 54)

09 54 23 00-0001 Linear Ceiling Systems (09 54 23)

09 54 23 00-0002 0.032" Aluminum, Linear Ceiling Systems (09 54 23 00-0001)

Note: For flat ceilings. Includes round or box style panels with KYNAR 500® or HYLAR 5000® PVDF finish. Includes ceiling suspension system and flush or recessed filler strips.

09 Finishes**09 50 Ceilings****09 54 Specialty Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 54 23 00-0003	SF		4" Panel Width, 0.032" Aluminum, Linear Ceiling System	12.61	1.98
			For Up To 50, Add	3.79	
			For >50 To 200, Add	2.21	
			For >200 To 500, Add	0.87	
			For >2,500, Deduct	-0.63	
			For Ceilings >10' High, Add	0.36	
			For Linear Ceiling Systems Without Filler Strips, Deduct	-1.95	
			For Curved Ceilings, Add	1.17	
09 54 23 00-0004	SF		8" Panel Width, 0.032" Aluminum, Linear Ceiling System	10.49	1.98
			For Up To 50, Add	3.43	
			For >50 To 200, Add	1.98	
			For >200 To 500, Add	0.76	
			For >2,500, Deduct	-0.52	
			For Ceilings >10' High, Add	0.35	
			For Linear Ceiling Systems Without Filler Strips, Deduct	-0.96	
			For Curved Ceilings, Add	1.15	
09 54 23 00-0005	SF		12" Panel Width, 0.032" Aluminum, Linear Ceiling System.....	9.65	1.98
			For Up To 50, Add	3.27	
			For >50 To 200, Add	1.88	
			For >200 To 500, Add	0.71	
			For >2,500, Deduct	-0.48	
			For Ceilings >10' High, Add	0.34	
			For Linear Ceiling Systems Without Filler Strips, Deduct	-0.65	
			For Curved Ceilings, Add	1.13	
09 54 23 00-0006 Tin Ceilings (09 54 23)					
09 54 23 00-0007	SF		2' x 2' Tin Ceiling Embossed Panels.....	12.47	3.07
			For Up To 50, Add	3.35	
			For >50 To 200, Add	1.99	
			For >200 To 500, Add	0.81	
			For >2,500, Deduct	-0.62	
			For Ceilings >10' High, Add	0.28	
09 54 23 00-0008	SF		12" x 12" Tin Ceiling Embossed Plates.....	17.89	1.98
			For Up To 50, Add	4.24	
			For >50 To 200, Add	2.57	
			For >200 To 500, Add	1.09	
			For >2,500, Deduct	-0.89	
			For Ceilings >10' High, Add	0.29	
09 54 23 00-0009	SF		12" x 24" Tin Ceiling Embossed Plates.....	13.44	1.98
			For Up To 50, Add	3.58	
			For >50 To 200, Add	2.12	
			For >200 To 500, Add	0.87	
			For >2,500, Deduct	-0.67	
			For Ceilings >10' High, Add	0.29	
09 54 23 00-0010	SF		24" x 24" Tin Ceiling Embossed Plates.....	12.35	1.98
			For Up To 50, Add	3.29	
			For >50 To 200, Add	1.96	
			For >200 To 500, Add	0.80	
			For >2,500, Deduct	-0.62	
			For Ceilings >10' High, Add	0.27	
09 54 23 00-0011	SF		24" x 48" Tin Ceiling Embossed Plates.....	10.77	1.49
			For Up To 50, Add	2.87	
			For >50 To 200, Add	1.71	
			For >200 To 500, Add	0.70	
			For >2,500, Deduct	-0.54	
			For Ceilings >10' High, Add	0.24	
09 54 23 00-0012	LF		3" Or 4" Wide Embossed Molding.....	9.65	2.97
09 54 23 00-0013	LF		6" Wide Embossed Molding.....	11.78	3.46
09 54 23 00-0014	LF		12" Wide Embossed Molding.....	15.61	4.05
09 54 23 00-0015	EA		3", 4" Or 6" Wide Embossed Cross, Tee Or Ell.....	28.52	9.40
09 54 23 00-0016	EA		12" Wide Embossed Cross, Tee Or Ell.....	38.31	10.99
09 57 Special Function Ceilings (09 50)					
09 57 00 00-0001 High Impact Ceiling Systems (09 57)					
09 57 00 00-0002	SF		Polyvinyl Chloride Face High Impact Ceiling Panels.....	4.48	0.90
			For Ceilings >10' High, Add	0.11	
09 57 00 00-0003	SF		High Impact Clips.....	1.92	0.72
			For Ceilings >10' High, Add	0.08	
09 80 Acoustic Treatment (09)					
09 81 Acoustic Insulation (09 80)					
09 81 16 Acoustic Blanket Insulation (09 81)					
09 81 16 00-0001			Sound Attenuation Fire Blankets (SAFB) (09 81 16)		
09 81 16 00-0002			2.5 PCF Density, Sound Attenuation Fire Blankets (SAFB) (09 81 16 00-0001)		
09 81 16 00-0003	SF		1-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.42	0.27
09 81 16 00-0004	SF		2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.50	0.27



Finishes			09
Acoustic Treatment			09 80
Acoustic Insulation			09 81

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MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
09 81 16 00-0005	SF	2-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.61		0.27
09 81 16 00-0006	SF	3" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.70		0.27
09 81 16 00-0007	SF	3-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.82		0.27
09 81 16 00-0008	SF	4" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.93		0.27
09 81 16 00-0009	SF	5" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.07		0.27
09 81 16 00-0010	SF	6" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	2.24		0.27
09 81 16 00-0011		4 PCF Density, Sound Attenuation Fire Blankets (SAFB) (09 81 16 00-0001)			
09 81 16 00-0012	SF	1" Thick, 4 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB)	1.40		0.27
09 81 16 00-0013		Sound Attenuation Batts (09 81 16)			
		Note: NoiseReducer® by Certainteed, Quitezone® by Owens Corning, Sound-Shield® by Johns Mansville.			
09 81 16 00-0014	SF	2-1/2" Thick, Unfaced Sound Attenuation Batt.....	0.88		0.36
09 81 16 00-0015	SF	3-1/2" Thick, Unfaced Sound Attenuation Batt.....	0.93		0.36
09 81 16 00-0016	SF	3-1/2" Thick, Kraft Faced Sound Attenuation Batt	0.95		0.36
09 81 16 00-0017	SF	5-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.04		0.36
09 81 16 00-0018	SF	5-1/2" Thick, Kraft Faced Sound Attenuation Batt	1.06		0.36
09 81 16 00-0019	SF	6-1/4" Thick, Unfaced Sound Attenuation Batt.....	1.06		0.36
09 81 16 00-0020	SF	6-1/4" Thick, Kraft Faced Sound Attenuation Batt	1.09		0.36
09 84		Acoustic Room Components (09 80)			
09 84 13		Fixed Sound-Absorptive Panels (09 84)			
09 84 13 00-0001		Sound Absorbing Panels And Attenuation Blankets (09 84 13)			
		Note: No backs, 3" thick modular, ceiling or wall hung back. Excludes ceiling suspension systems and wall furring system. See CSI section 09 53 23 00-0000 for suspended ceiling support.			
09 84 13 00-0002	SF	3" Thick Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler	8.87		1.81
09 84 13 00-0003	SF	1" Thick Fiberglass Sound Absorbing Panels With Glass Cloth Face For Walls	12.98		1.81
09 84 13 00-0004		Sound Absorbing Acoustical Wall Panel System (09 84 13)			
09 84 13 00-0005		Fiberglass, Sound Absorbing Wall Panel System (09 84 13 00-0004)			
		Note: Includes molding and mounting hardware for flush mount. All panels are 3/4" thick.			
09 84 13 00-0006	SF	Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Tek-Wall).....	11.36		2.03
09 84 13 00-0007	SF	Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Adorn)	13.50		2.03
09 84 13 00-0008		Sound Absorbing Panel, Eggcrate Style (09 84 13)			
		Note: Ceiling or wall hung back.			
09 84 13 00-0009	SF	2" Thick Polyurethane Sound Wave (Eggcrate Style).....	8.28		
		For Pyramid Style, Add	1.18		
09 84 13 00-0010	SF	3" Thick Polyurethane Sound Wave (Eggcrate Style).....	10.78		
		For Pyramid Style, Add	1.18		
09 84 13 00-0011	SF	4" Thick Polyurethane Sound Wave (Eggcrate Style).....	13.85		
		For Pyramid Style, Add	1.18		
09 84 13 00-0012	SF	2" Thick Melamine Sound Wave (Eggcrate Style)	10.47		
		For Eggcrate Style With Hypalon Coating, Add	1.97		
		For Pyramid Style, Add	2.05		
		For Pyramid Style With Hypalon Coating, Add	4.02		
09 84 13 00-0013	SF	3" Thick Melamine Sound Wave (Eggcrate Style)	20.13		
		For Eggcrate Style With Hypalon Coating, Add	1.97		
		For Pyramid Style, Add	0.42		
		For Pyramid Style With Hypalon Coating, Add	2.40		
09 84 13 00-0014	SF	4" Thick Melamine Sound Wave (Eggcrate Style)	25.56		
		For Eggcrate Style With Hypalon Coating, Add	1.97		
		For Pyramid Style, Add	0.42		
		For Pyramid Style With Hypalon Coating, Add	2.40		
09 85		Acoustic Sound Deadening (09 80)			
09 85 00 00-0001		Sound Deadening Fiberboard (09 85)			
09 85 00 00-0002	SF	1/2" Sound Deadening Fiberboard.....	1.20		0.45
		For Times When The Shortest Distance From Corner to Corner Is <3', Add	0.41		
		For Horizontal Installation Up To 10' High, Add	0.28		
		For Horizontal Installation >10' High, Add	0.41		
		For Walls >10' High, Add	0.07		
		For Up To 128, Add	0.40		
		For >128 To 320, Add	0.24		

END OF SECTION 09

09	09	Finishes
	09 80	Acoustic Treatment
	09 85	Acoustic Sound Deadening



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Specialties			10
Safety Specialties			10 40
Emergency Access And Information Cabinets			10 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 40 Safety Specialties⁽¹⁰⁾

10 41 Emergency Access And Information Cabinets^(10 40)

10 41 13 Fire Department Plan Cabinets^(10 41)

10 41 13 00-0001 Fire Department Plan Cabinets (Knox)^(10 41 13)

10 41 13 00-0002	EA	18" High x 14-1/2" Wide x 5" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300).....	877.23	29.38
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Dual Locks, Add	60.00	
		For Back Key Hook Panel, Add	58.37	
		For Swing Key Hook Panel, Add	157.37	
		For Non-Locking Weather Housing, Add	395.11	
10 41 13 00-0003	EA	18" High x 14-1/2" Wide x 7" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300).....	928.87	29.38
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Dual Locks, Add	60.00	
		For Back Key Hook Panel, Add	58.37	
		For Swing Key Hook Panel, Add	157.37	
		For Second Swing Key Hook Panel, Add	124.37	
		For Non-Locking Weather Housing, Add	395.11	

10 41 16 Emergency Key Cabinets^(10 41)

10 41 16 00-0001 Emergency Key Cabinets (Knox)^(10 41 16)

10 41 16 00-0002	EA	Elevator/Lobby, Deep Red Finish, Surface Mount, Fire Department Emergency Key Storage Box (Knox 1403).....	448.63	29.38
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
10 41 16 00-0003	EA	5" High x 4" Wide x 3-3/4" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Box 3200).....	396.99	29.38
		For Lift-Off Door, Deduct	-40.00	
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	56.86	
		For Cast-In-Place Concrete Recess Mounting, Add	119.00	
10 41 16 00-0004	EA	6" High x 6" Wide x 4-1/2" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4100).....	523.51	29.38
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	56.86	
		For Dual Locks, Add	60.00	
		For Cast-In-Place Concrete Recess Mounting, Add	130.00	
10 41 16 00-0005	EA	7" High x 7" Wide x 5" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4400).....	555.78	29.38
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	56.86	
		For Dual Locks, Add	60.00	
		For Cast-In-Place Concrete Recess Mounting, Add	135.00	

10 44 Fire Protection Specialties^(10 40)

10 44 13 Fire Protection Cabinets^(10 44)

10 44 13 00-0001 Fire Extinguisher Cabinets^(10 44 13)

10 44 13 00-0002 Recessed Fire Extinguisher Cabinets^(10 44 13 00-0001)

10 44 13 00-0003 Steel Door And Trim, Recessed Fire Extinguisher Cabinets^(10 44 13 00-0002)

Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0004	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	280.77	37.06
10 44 13 00-0005	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	285.09	37.06
10 44 13 00-0006	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	285.95	37.06
10 44 13 00-0007	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	312.71	37.06
10 44 13 00-0008	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	382.65	37.06
10 44 13 00-0009	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	392.14	37.06

10 44 13 00-0010 Aluminum Door And Trim, Recessed Fire Extinguisher Cabinets^(10 44 13 00-0002)

Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0011	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	305.09	37.06
10 44 13 00-0012	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	310.06	37.06
10 44 13 00-0013	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	318.35	37.06
10 44 13 00-0014	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	332.44	37.06
10 44 13 00-0015	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	376.02	37.06
10 44 13 00-0016	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	389.28	37.06

10	Specialties
10 40	Safety Specialties
10 44	Fire Protection Specialties



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0017		Stainless Steel Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002) Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0018	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	409.77	37.06
10 44 13 00-0019	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet	419.93	37.06
10 44 13 00-0020	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	425.00	37.06
10 44 13 00-0021	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	459.70	37.06
10 44 13 00-0022	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	529.59	37.06
10 44 13 00-0023	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	550.75	37.06
10 44 13 00-0024		Bronze Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002) Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0025	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	950.80	37.06
10 44 13 00-0026	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	957.51	37.06
10 44 13 00-0027	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	1,094.34	37.06
10 44 13 00-0028		Acrylic Bubble Door And Steel Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002) Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0029	EA	10-1/2" x 24" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	336.89	37.06
10 44 13 00-0030	EA	14" x 30" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	369.70	37.06
10 44 13 00-0031		Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0001)		
10 44 13 00-0032		Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031) Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0033	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	304.08	37.06
10 44 13 00-0034	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	312.71	37.06
10 44 13 00-0035	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	313.58	37.06
10 44 13 00-0036	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	342.93	37.06
10 44 13 00-0037	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	401.64	37.06
10 44 13 00-0038	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	411.14	37.06
10 44 13 00-0039		Aluminum Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031) Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0040	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	342.03	37.06
10 44 13 00-0041	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	354.47	37.06
10 44 13 00-0042	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	361.93	37.06
10 44 13 00-0043	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	376.02	37.06
10 44 13 00-0044	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	424.92	37.06
10 44 13 00-0045	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	436.52	37.06
10 44 13 00-0046		Stainless Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031) Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0047	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	454.27	37.06
10 44 13 00-0048	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	466.12	37.06
10 44 13 00-0049	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	471.20	37.06
10 44 13 00-0050	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	497.43	37.06
10 44 13 00-0051	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	562.60	37.06
10 44 13 00-0052	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	576.98	37.06
10 44 13 00-0053		Bronze Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031) Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0054	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,189.69	37.06
10 44 13 00-0055	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,195.32	37.06
10 44 13 00-0056	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,365.27	37.06
10 44 13 00-0057		Acrylic Bubble Door And Steel Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031) Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0058	EA	10-1/2" x 24" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door	367.97	37.06
10 44 13 00-0059	EA	14" x 30" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	399.05	37.06
10 44 13 00-0060		Surface Mounted Fire Extinguisher Cabinets (10 44 13 00-0001)		
10 44 13 00-0061		Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060) Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0062	EA	12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....	297.17	37.06
10 44 13 00-0063	EA	13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	302.35	37.06
10 44 13 00-0064	EA	15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	343.80	37.06
10 44 13 00-0065	EA	19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	394.73	37.06
10 44 13 00-0066	EA	23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	408.55	37.06



Specialties		10
Safety Specialties		10 40
Fire Protection Specialties		10 44

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0067 Aluminum Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060) Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0068 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	420.77	37.06
10 44 13 00-0069 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	431.55	37.06
10 44 13 00-0070 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	455.58	37.06
10 44 13 00-0071 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	502.83	37.06
10 44 13 00-0072 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	522.72	37.06
10 44 13 00-0073 Stainless Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060) Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0074 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	527.90	37.06
10 44 13 00-0075 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	543.98	37.06
10 44 13 00-0076 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	583.75	37.06
10 44 13 00-0077 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	660.76	37.06
10 44 13 00-0078 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	684.46	37.06
10 44 13 00-0079 Bronze Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060) Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0080 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet.....	1,359.97	37.06
10 44 13 00-0081 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet.....	1,528.62	37.06
10 44 13 00-0082 Acrylic Bubble Door And Steel Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060) Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0083 EA 13-11/16" x 27-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	348.98	37.06
10 44 13 00-0084 EA 17-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	386.96	37.06
10 44 13 00-0085 EA 31-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	519.92	37.06
10 44 13 00-0086 Fire Extinguisher Cabinet Accessories (10 44 13 00-0001)		
10 44 13 00-0087 EA Standard Break Glass Cylinder Lock Mechanism.....	29.22	11.30
10 44 13 00-0088 EA Breaker Bar And Chain For Break Glass Cabinets.....	26.90	11.30
10 44 13 00-0089 EA Replacement Standard Pull Handle.....	25.49	11.30
10 44 13 00-0090 EA Fire Extinguisher Cabinet Battery Operated Alarm.....	75.03	22.59
10 44 13 00-0091 EA Fire Rated Option For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets.....	115.54	
10 44 13 00-0092 EA Fire Rated Option For 12" x 27" x 7-3/4" Cabinets.....	127.09	
10 44 13 00-0093 EA Fire Rated Option For 16" x 32" x 7-3/4" Cabinets.....	173.31	
10 44 13 00-0094 EA Fire Rated Option For 20" x 27" x 7-3/4" Cabinets.....	236.86	
10 44 13 00-0095 EA Fire Rated Option For 9" x 18" x 5-1/2" Cabinets.....	277.30	
10 44 13 00-0096 EA Replace Standard Glass With Wire Glass For 9" x 18" x 5-1/2" Cabinets.....	67.01	
10 44 13 00-0097 EA Replace Standard Glass With Wire Glass For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets.....	69.32	
10 44 13 00-0098 EA Replace Standard Glass With Wire Glass For 12" x 27" x 7-3/4" Cabinets.....	92.43	
10 44 13 00-0099 EA Replace Standard Glass With Wire Glass For 16" x 32" x 7-3/4" Cabinets.....	167.53	
10 44 13 00-0100 EA Replace Standard Glass With Wire Glass For 20" x 27" x 7-3/4" Cabinets.....	169.84	
10 44 13 00-0101 EA Replace Standard Glass With Wire Glass For 12-3/16" x 21-3/16" x 6" Cabinets.....	72.45	
10 44 13 00-0102 EA Replace Standard Glass With Wire Glass For 13-11/16" x 27-3/16" x 6-1/2" Cabinets.....	76.07	
10 44 13 00-0103 EA Replace Standard Glass With Wire Glass For 15-3/16" x 30-3/16" x 8-1/4" Cabinets.....	102.64	
10 44 13 00-0104 EA Replace Standard Glass With Wire Glass For 19-3/16" x 35-3/16" x 8-1/4" Cabinets.....	181.12	
10 44 13 00-0105 EA Replace Standard Glass With Wire Glass For 23-3/16" x 30-3/16" x 8-1/4" Cabinets.....	183.54	
10 44 13 00-0106 Fire Hose Cabinets (10 44 13) Note: Excludes hoses, hose rack units, fire extinguishers and valves. See CSI section 21 12 13 00-0001 for fire hoses and nozzles, 21 12 13 00-0015 for fire hose rack units, 21 12 23 00-0001 for fire department valves, 21 12 23 00-0014 for fire hose angle valves.		
10 44 13 00-0107 Recessed Fire Hose Cabinets (10 44 13 00-0106)		
10 44 13 00-0108 Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107) Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0109 EA 34" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... For Solid Steel Door, Deduct	461.20 -8.60	146.90
10 44 13 00-0110 EA 34" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... For Solid Steel Door, Deduct	466.84 -8.60	146.90
10 44 13 00-0111 EA 38" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... For Solid Steel Door, Deduct	471.54 -8.60	146.90
10 44 13 00-0112 EA 38" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... For Solid Steel Door, Deduct	476.25 -8.60	146.90
10 44 13 00-0113 EA 30" x 30" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... For Solid Steel Door, Deduct	481.89 -8.60	146.90
10 44 13 00-0114 EA 38" x 32" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... For Solid Steel Door, Deduct	496.94 -8.60	146.90

10 Specialties**10 40 Safety Specialties****10 44 Fire Protection Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0115 EA 23" x 18" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	501.64 -8.60	146.90
10 44 13 00-0116 Aluminum Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107) Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0117 EA 34" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	490.45 6.50	146.90
10 44 13 00-0118 EA 30" x 30" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	499.70 6.50	146.90
10 44 13 00-0119 EA 34" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	500.90 6.50	146.90
10 44 13 00-0120 EA 38" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	504.74 6.50	146.90
10 44 13 00-0121 EA 38" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	509.78 6.50	146.90
10 44 13 00-0122 EA 38" x 32" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	524.07 6.50	146.90
10 44 13 00-0123 EA 23" x 18" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	538.36 6.50	146.90
10 44 13 00-0124 Stainless Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107) Note: Includes #4 finish, stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0125 EA 23" x 18" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	573.65 -7.70	146.90
10 44 13 00-0126 EA 34" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	617.35 -7.70	146.90
10 44 13 00-0127 EA 34" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	621.56 -7.70	146.90
10 44 13 00-0128 EA 38" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	635.00 -7.70	146.90
10 44 13 00-0129 EA 38" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	639.20 -7.70	146.90
10 44 13 00-0130 EA 30" x 30" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	661.05 -7.70	146.90
10 44 13 00-0131 EA 38" x 32" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	682.90 -7.70	146.90
10 44 13 00-0132 Semi Recessed Fire Hose Cabinets (10 44 13 00-0106)		
10 44 13 00-0133 Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0134 EA 34" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	476.25 -8.60	146.90
10 44 13 00-0135 EA 34" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	481.89 -8.60	146.90
10 44 13 00-0136 EA 38" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	486.59 -8.60	146.90
10 44 13 00-0137 EA 38" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	492.23 -8.60	146.90
10 44 13 00-0138 EA 30" x 30" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	496.94 -8.60	146.90
10 44 13 00-0139 EA 38" x 32" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	511.98 -8.60	146.90
10 44 13 00-0140 EA 23" x 18" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	517.62 -8.60	146.90
10 44 13 00-0141 Aluminum Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0142 EA 34" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	499.70 6.50	146.90
10 44 13 00-0143 EA 34" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	509.78 6.50	146.90
10 44 13 00-0144 EA 30" x 30" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	511.22 6.50	146.90
10 44 13 00-0145 EA 38" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	513.98 6.50	146.90
10 44 13 00-0146 EA 38" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	519.03 6.50	146.90
10 44 13 00-0147 EA 38" x 32" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	533.31 6.50	146.90
10 44 13 00-0148 EA 23" x 18" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	547.60 6.50	146.90



		Specialties	10	10
		Safety Specialties	10 40	
		Fire Protection Specialties	10 44	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
10 44 13 00-0149	Stainless Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes #4 finish, 304 stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.			
10 44 13 00-0150	EA 23" x 18" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	599.71		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0151	EA 34" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	647.61		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0152	EA 34" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	651.81		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0153	EA 38" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	665.26		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0154	EA 38" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	669.46		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0155	EA 30" x 30" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	691.31		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0156	EA 38" x 32" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet.....	713.16		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0157	Surface Mount Fire Hose Cabinets (10 44 13 00-0106)			
10 44 13 00-0158	Steel Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes baked enamel finish, steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.			
10 44 13 00-0159	EA 37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	481.89		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0160	EA 37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	486.59		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0161	EA 41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	492.23		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0162	EA 41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	496.94		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0163	EA 33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	501.64		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0164	EA 41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	517.62		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0165	EA 26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet.....	522.33		146.90
	For Solid Steel Door, Deduct	-8.60		
10 44 13 00-0166	Aluminum Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes clear satin anodized finish, aluminum door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.			
10 44 13 00-0167	EA 37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	524.07		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0168	EA 33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	533.31		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0169	EA 37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	535.71		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0170	EA 41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	538.36		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0171	EA 41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	542.56		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0172	EA 41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	557.69		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0173	EA 26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet.....	566.93		146.90
	For Solid Aluminum Door, Add	6.50		
10 44 13 00-0174	Stainless Steel Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes #4 finish, 304 stainless steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.			
10 44 13 00-0175	EA 26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	635.00		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0176	EA 37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	774.51		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0177	EA 41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	809.80		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0178	EA 37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	818.21		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0179	EA 41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	826.61		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0180	EA 33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	861.91		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 13 00-0181	EA 41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	905.61		146.90
	For Solid Stainless Steel Door, Deduct	-7.70		
10 44 16	Fire Extinguishers (10 44)			
10 44 16 13	Portable Fire Extinguishers (10 44 16) Note: Includes filling, certification, bracket, hardware and mounting on wall.			
10 44 16 13-0001	Carbon Dioxide Type, Class BC Portable Fire Extinguisher (10 44 16 13)			

10 Specialties**10 40 Safety Specialties****10 44 Fire Protection Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 16 13-0002 EA 2.5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	185.05	11.75
For >5 To 10, Deduct	-6.24	
For >10, Deduct	-12.48	
For Placement In Cabinet, Deduct	-30.13	
10 44 16 13-0003 EA 5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	275.78	13.56
For >5 To 10, Deduct	-10.31	
For >10, Deduct	-20.63	
For Placement In Cabinet, Deduct	-34.77	
10 44 16 13-0004 EA 10 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	358.74	17.18
For >5 To 10, Deduct	-13.42	
For >10, Deduct	-26.83	
For Placement In Cabinet, Deduct	-45.20	
10 44 16 13-0005 EA 15 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	441.20	21.69
For >5 To 10, Deduct	-16.41	
For >10, Deduct	-32.82	
For Placement In Cabinet, Deduct	-56.50	
10 44 16 13-0006 EA 20 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	488.89	21.69
For >5 To 10, Deduct	-18.79	
For >10, Deduct	-37.59	
For Placement In Cabinet, Deduct	-56.50	
10 44 16 13-0007 EA 50 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher.....	1,643.21	34.35
For >5 To 10, Deduct	-73.12	
For >10, Deduct	-146.24	
10 44 16 13-0008 EA 100 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher.....	3,183.64	34.35
For >5 To 10, Deduct	-150.14	
For >10, Deduct	-300.29	
10 44 16 13-0009 Dry Chemical Type, Class ABC Portable Fire Extinguisher (10 44 16 13)		
10 44 16 13-0010 EA 2.6 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	107.11	11.75
For >5 To 10, Deduct	-2.34	
For >10, Deduct	-4.69	
For Placement In Cabinet, Deduct	-30.13	
10 44 16 13-0011 EA 5 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	137.01	13.56
For >5 To 10, Deduct	-3.37	
For >10, Deduct	-6.75	
For Placement In Cabinet, Deduct	-34.77	
10 44 16 13-0012 EA 10 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	196.17	17.18
For >5 To 10, Deduct	-5.29	
For >10, Deduct	-10.58	
For Placement In Cabinet, Deduct	-45.20	
10 44 16 13-0013 EA 20 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	279.46	21.69
For >5 To 10, Deduct	-8.32	
For >10, Deduct	-16.65	
For Placement In Cabinet, Deduct	-56.50	
10 44 16 13-0014 EA 50 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher.....	1,928.25	34.35
For >5 To 10, Deduct	-87.37	
For >10, Deduct	-174.75	
10 44 16 13-0015 EA 125 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher.....	2,922.79	34.35
For >5 To 10, Deduct	-137.10	
For >10, Deduct	-274.20	
10 44 16 13-0016 Other Portable Fire Extinguishers (10 44 16 13)		
10 44 16 13-0017 EA 2.5 Gallon Water, Stored Pressure Portable Fire Extinguisher.....	207.94	13.56
Note: Stainless steel.		
For >5 To 10, Deduct	-6.92	
For >10, Deduct	-13.84	
For Placement In Cabinet, Deduct	-34.77	
10 44 16 13-0018 EA 1.6 Gallon Wet Chemical, Class K Portable Fire Extinguisher.....	312.76	21.69
Note: Stainless steel.		
For >5 To 10, Deduct	-9.99	
For >10, Deduct	-19.98	
For Placement In Cabinet, Deduct	-56.50	
10 44 16 13-0019 EA 2.5 Gallon Wet Chemical, Class K Portable Fire Extinguisher.....	328.10	21.69
Note: Stainless steel.		
For >5 To 10, Deduct	-10.76	
For >10, Deduct	-21.51	
For Placement In Cabinet, Deduct	-56.50	
10 44 16 13-0020 EA 30 LB Dry Powder, Class D Portable Fire Extinguisher.....	484.85	21.69
Note: Yellow steel.		
For >5 To 10, Deduct	-18.59	
For >10, Deduct	-37.19	
10 44 16 13-0021 Recharge Existing Portable Fire Extinguishers (10 44 16 13)		
Note: Includes removal, filling, testing, certification and reinstallation.		
10 44 16 13-0022 Recharge Carbon Dioxide, Class BC Portable Fire Extinguishers (10 44 16 13-0021)		
10 44 16 13-0023 EA Recharge 2.5 LB Carbon Dioxide Portable Fire Extinguisher.....	8.97	
10 44 16 13-0024 EA Recharge 5 LB Carbon Dioxide Portable Fire Extinguisher.....	9.97	
10 44 16 13-0025 EA Recharge 10 LB Carbon Dioxide Portable Fire Extinguisher.....	10.37	
10 44 16 13-0026 EA Recharge 15 LB Carbon Dioxide Portable Fire Extinguisher.....	11.74	
10 44 16 13-0027 EA Recharge 20 LB Carbon Dioxide Portable Fire Extinguisher.....	13.56	



		Specialties	10	10
		Safety Specialties	10 40	
		Fire Protection Specialties	10 44	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 16 13-0028	Recharge Dry Chemical, Class ABC Portable Fire Extinguishers (10 44 16 13-0021)		
10 44 16 13-0029	EA	Recharge 2.5 LB Dry Chemical Portable Fire Extinguisher	10.83
10 44 16 13-0030	EA	Recharge 5 LB Dry Chemical Portable Fire Extinguisher	13.11
10 44 16 13-0031	EA	Recharge 10 LB Dry Chemical Portable Fire Extinguisher	18.52
10 44 16 13-0032	EA	Recharge 20 LB Dry Chemical Portable Fire Extinguisher	29.23
10 44 16 13-0033	Recharge Other Portable Fire Extinguishers (10 44 16 13-0021)		
10 44 16 13-0034	EA	Recharge 2.5 Gallon Pressurized Water Portable Fire Extinguisher	10.71
10 44 16 13-0035	EA	Recharge 1.6 Gallon Wet Chemical Class K Fire Extinguisher.....	76.35
10 44 16 13-0036	EA	Recharge 2.5 Gallon Wet Chemical Class K Fire Extinguisher.....	106.89
10 44 16 13-0037	EA	Recharge 30 LB Dry Powder Class D Portable Fire Extinguisher.....	44.01
10 44 16 13-0038	Fire Extinguisher Backboards (10 44 16 13)		
10 44 16 13-0039	Fire Extinguisher Backboards (10 44 16 13-0038)		
	Note: Mounted to any wall. Includes anchors.		
10 44 16 13-0040	EA	Red Painted 1/2" x 12" x 40" Beveled Edge Plywood Fire Extinguisher Backboard	98.35
10 44 16 13-0041	EA	Relocate Fire Extinguisher Wood Backboard, Any Size	136.65
	Note: Includes storage and cleaning.		
10 44 16 13-0042	Inspections And Testing (10 44 16 13)		
10 44 16 13-0043	EA	On Site Fire Extinguisher Annual Inspection (Tag).....	9.69
10 44 16 13-0044	EA	On Site Fire Extinguisher Hydrotest.....	14.24
10 44 19	Fire Blankets (10 44)		
10 44 19 00-0001	EA	Vertical Roller Type Fire Blanket Cabinet (JL Industries 1FB)	334.16
	Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.		
10 44 19 00-0002	EA	Drop Type Fire Blanket Cabinet (JL Industries 2FB)	252.14
	Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.		

END OF SECTION 10

10	10	Specialties
	10 40	Safety Specialties
	10 44	Fire Protection Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Equipment	11	
Commercial Equipment	11 20	11
Retail and Service Equipment	11 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 20 Commercial Equipment ⁽¹¹⁾

11 21 Retail and Service Equipment ^(11 20)

11 21 63 Refrigerated Display Equipment ^(11 21)

11 21 63 00-0001 Dairy Products ^(11 21 63)

11 21 63 00-0002 Refrigerated Dairy Case ^(11 21 63 00-0001)

11 21 63 00-0003	LF	Refrigerated Case, Dairy, Multi-Deck For Rear Sliding Doors, Add	1,321.29 19.95	334.39
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11 21 63 00-0004 Refrigerated Milk Unit ^(11 21 63 00-0001)

11 21 63 00-0005	EA	46" x 32" x 49-1/2" Capacity: 12, 13" x 13" x 11" Refrigerated Milk Unit.....	4,954.66	243.48
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11 21 63 00-0006 Refrigerated Ice Cream And Milk Dispenser ^(11 21 63 00-0001)

11 21 63 00-0007	EA	63-1/2" x 28-1/2" x 35-3/8" Refrigerated Ice Cream And Milk Dispenser	5,491.82	267.39
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11 21 63 00-0008 Ice Cream Dispenser ^(11 21 63 00-0001)

11 21 63 00-0009	EA	46" x 28-1/2" x 35-3/8" Refrigerated Ice Cream Dispenser	4,587.98	225.14
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11 21 63 00-0010 Drop-In Ice Cream Freezer ^(11 21 63 00-0001)

11 21 63 00-0011	EA	27-7/8" x 16-9/16" x 28-1/4" 6 Gallon Drop-In Ice Cream Freezer	1,144.17	56.04
11 21 63 00-0012	EA	30" x 27-7/8" x 28-1/4" 12 Gallon Drop-In Ice Cream Freezer	1,495.09	73.27

11 21 63 00-0013 Ice Cream Cabinets ^(11 21 63 00-0001)

11 21 63 00-0014	EA	46" x 32" x 42", 24 Gallon Ice Cream Cabinet	3,583.05	175.11
11 21 63 00-0015	EA	68" x 32" x 42", 48 Gallon Ice Cream Cabinet	5,106.88	252.71

11 21 63 00-0016 Delicatessen Case, Service Deli ^(11 21 63)

11 21 63 00-0017	LF	Delicatessen Case, Single-Deck.....	1,237.86	278.66
11 21 63 00-0018	LF	Delicatessen Case, Multi-Deck.....	1,430.85	334.39
11 21 63 00-0019	EA	Delicatessen Case, 3 Shelf, 32" x 23" x 23"	1,310.31	63.73

11 21 63 00-0020 Meat Case ^(11 21 63)

11 21 63 00-0021	LF	Meat Case, Single - Deck	1,026.92	334.39
11 21 63 00-0022	LF	Meat Case, Multi - Deck	1,106.95	334.39

11 21 63 00-0023 Produce Case ^(11 21 63)

11 21 63 00-0024	LF	Produce Case, Single - Deck.....	1,057.30	334.39
11 21 63 00-0025	LF	Produce Case, Multi - Deck	1,155.42	334.39

11 21 63 00-0026 Bottle Coolers ^(11 21 63)

11 21 63 00-0027	EA	Bottle Cooler, 6' Long	3,803.87	1,114.66
11 21 63 00-0028	EA	Bottle Cooler, 10' Long	5,896.58	1,671.98

11 21 63 00-0029 Cold Pan Units ^(11 21 63)

11 21 63 00-0030	EA	5" x 48", Iced, Cold Pan Units.....	1,833.52	89.17
11 21 63 00-0031	EA	5" x 72", Iced, Cold Pan Units.....	2,548.07	124.74
11 21 63 00-0032	EA	8" x 72", Iced, Cold Pan Units.....	3,012.65	147.53
11 21 63 00-0033	EA	5" x 48", Mechanical, Cold Pan Units	3,097.80	152.43
11 21 63 00-0034	EA	8" x 48", Mechanical, Cold Pan Units	3,370.59	164.55
11 21 63 00-0035	EA	8" x 72", Mechanical, Cold Pan Units	4,004.22	194.45

11 21 63 00-0036 Cold Cabinets (Insulated) ^(11 21 63)

11 21 63 00-0037	EA	69-3/4" x 32" x 24", Insulated Cold Cabinet.....	1,662.13	77.16
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11 30 Residential Equipment ⁽¹¹⁾

11 32 Unit Kitchens ^(11 30)

11 32 13 Metal Unit Kitchens ^(11 32)

11	Equipment
11 30	Residential Equipment
11 32	Unit Kitchens



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

Note: Includes electrical hook-up to outlet, supply line connection to service stops, and drain line and p-trap. Excludes garbage disposer and hood exhaust vent piping.

11 32 13 00-0001	30" Compact Kitchen (11 32 13)		
11 32 13 00-0002	EA 30" Compact Unit Kitchen With Refrigerator, Range And Sink	2,293.53	557.16
	<i>For Gas Unit, Add</i>	232.60	
11 32 13 00-0003	EA 30" Compact Unit Kitchen With Refrigerator And Sink	1,920.03	390.02
11 32 13 00-0004	EA 30" Compact Unit Kitchen With Refrigerator And Range	1,748.60	334.30
11 32 13 00-0005	EA 30" Compact Unit Kitchen Cabinet For Upper Wall Section	511.19	271.19
11 32 13 00-0006	EA 30" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section	1,040.58	180.79
	<i>For Range Hood In Upper Section, Add</i>	179.00	
11 32 13 00-0007	EA 30" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	66.25	14.43
11 32 13 00-0008	EA 30" Compact Unit Kitchen Stainless Steel Shield For Side Wall	59.61	14.43
11 32 13 00-0009	42" Compact Kitchen (11 32 13)		
11 32 13 00-0010	EA 42" Compact Unit Kitchen With Refrigerator, Range And Sink	2,657.76	612.89
	<i>For Gas Unit, Add</i>	276.09	
11 32 13 00-0011	EA 42" Compact Unit Kitchen With Refrigerator And Sink	2,378.90	501.45
11 32 13 00-0012	EA 42" Compact Unit Kitchen Cabinet For Upper Wall Section	647.34	153.67
11 32 13 00-0013	EA 42" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section	1,206.78	203.39
	<i>For Range Hood In Upper Section, Add</i>	179.00	
11 32 13 00-0014	EA 42" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	79.61	14.43
11 32 13 00-0015	EA 42" Compact Unit Kitchen Stainless Steel Shield For Side Wall	66.53	14.43
11 32 13 00-0016	54" Compact Kitchen (11 32 13)		
11 32 13 00-0017	EA 54" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink	3,580.07	780.03
	<i>For Gas Unit, Add</i>	381.00	
11 32 13 00-0018	EA 54" Compact Unit Kitchen Cabinet For Upper Wall Section	801.58	90.40
11 32 13 00-0019	EA 54" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section	1,341.98	225.99
	<i>For Range Hood In Upper Section, Add</i>	179.00	
11 32 13 00-0020	EA 54" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	92.63	14.43
11 32 13 00-0021	EA 54" Compact Unit Kitchen Stainless Steel Shield For Side Wall	69.26	14.43
11 32 13 00-0022	60" Compact Kitchen (11 32 13)		
11 32 13 00-0023	EA 60" Compact Unit Kitchen With Refrigerator, Oven, Range, And Sink	3,771.50	835.75
	<i>For Gas Unit, Add</i>	398.58	
11 32 13 00-0024	EA 60" Compact Unit Kitchen Cabinet For Upper Wall Section	951.98	225.99
11 32 13 00-0025	EA 60" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	98.24	14.43
11 32 13 00-0026	EA 60" Compact Unit Kitchen Stainless Steel Shield For Side Wall	69.26	14.43
11 32 13 00-0027	72" Compact Kitchen (11 32 13)		
11 32 13 00-0028	EA 72" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink	4,042.93	891.47
	<i>For Gas Unit, Add</i>	428.15	
11 32 13 00-0029	EA 72" Compact Unit Kitchen Cabinet For Upper Wall Section	1,162.37	271.19
11 32 13 00-0030	EA 72" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	114.59	18.04
11 32 13 00-0031	EA 72" Compact Unit Kitchen Stainless Steel Shield For Side Wall	72.53	18.04

11 40 Foodservice Equipment (11)

11 41 Foodservice Storage Equipment (11 40)

11 41 13 Refrigerated Food Storage Cases (11 41)

11 41 13 00-0001	Frozen Food Cases (11 41 13)		
11 41 13 00-0002	LF Chest Type Frozen Food Case	1,051.93	334.39
11 41 13 00-0003	LF Reach-in Frozen Food Case (Glass Door)	1,769.48	334.39
11 41 13 00-0004	LF Island Type Frozen Food Case	1,172.43	334.39
11 41 13 00-0005	LF Multi-Deck Frozen Food Case	1,711.17	334.39

11 41 13 00-0006	Reach-In Refrigerators (11 41 13)		
11 41 13 00-0007	EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator	2,874.92	145.75
11 41 13 00-0008	EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator	3,544.53	183.83
11 41 13 00-0009	EA Three Section, 69.1 CF, Full Door, Self Contained, Reach-In Refrigerator	4,702.95	203.09
11 41 13 00-0010	EA Single Section, Glass Door, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator	3,089.03	145.75
11 41 13 00-0011	EA Two Section, Glass Door, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator	4,015.18	183.83
11 41 13 00-0012	EA Three Section, Glass Door, 61.1 CF, Full Door, Self Contained, Reach-In Refrigerator	5,313.99	203.09
11 41 13 00-0013	EA Single Section, Pass-Thru, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator	3,430.89	145.75
11 41 13 00-0014	EA Two Section, Pass-Thru, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator	4,630.77	183.83
11 41 13 00-0015	EA Single Section, Pass-Thru, Glass Door, 25.6 CF, Full Door, Self Contained, Reach-In Refrigerator	4,160.44	145.75
11 41 13 00-0016	EA Two Section, Pass-Thru, Glass Door, 48.8 CF, Full Door, Self Contained, Reach-In Refrigerator	5,978.17	183.83

11 41 13 00-0017	Reach-In Freezers (11 41 13)		
11 41 13 00-0018	EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Freezer	3,219.79	145.93
11 41 13 00-0019	EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Freezer	4,261.85	183.56



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
11 41 23 Walk-In-Coolers (11 41)					
11 41 23 00-0001 Walk-In Refrigerated Boxes (11 41 23)					
Note: Overall heights include 4" floor panel and 4" ceiling panel.					
11 41 23 00-0002 Walk-In Refrigerated Unit, 7'6" High With Floor (11 41 23 00-0001)					
Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.					
11 41 23 00-0003	EA	6' x 6' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	7,136.17		1,093.18
		For Refrigerated Boxes Without Floor, Deduct	-1,419.59		
11 41 23 00-0004	EA	6' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	8,502.32		1,229.83
		For Refrigerated Boxes Without Floor, Deduct	-1,715.64		
11 41 23 00-0005	EA	6' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,025.21		1,366.47
		For Refrigerated Boxes Without Floor, Deduct	-1,800.81		
11 41 23 00-0006	EA	6' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,237.07		1,639.76
		For Refrigerated Boxes Without Floor, Deduct	-2,012.97		
11 41 23 00-0007	EA	6' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,816.09		1,913.07
		For Refrigerated Boxes Without Floor, Deduct	-2,316.68		
11 41 23 00-0008	EA	6' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,086.09		2,186.36
		For Refrigerated Boxes Without Floor, Deduct	-2,542.61		
11 41 23 00-0009	EA	6' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,334.30		2,459.65
		For Refrigerated Boxes Without Floor, Deduct	-2,763.69		
11 41 23 00-0010	EA	8' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,373.03		1,366.47
		For Refrigerated Boxes Without Floor, Deduct	-1,887.77		
11 41 23 00-0011	EA	8' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,260.53		1,503.12
		For Refrigerated Boxes Without Floor, Deduct	-2,064.23		
11 41 23 00-0012	EA	8' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,589.39		1,776.42
		For Refrigerated Boxes Without Floor, Deduct	-2,304.95		
11 41 23 00-0013	EA	8' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,312.38		2,049.71
		For Refrigerated Boxes Without Floor, Deduct	-2,644.86		
11 41 23 00-0014	EA	8' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,661.00		2,323.00
		For Refrigerated Boxes Without Floor, Deduct	-2,891.19		
11 41 23 00-0015	EA	8' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,051.19		2,596.30
		For Refrigerated Boxes Without Floor, Deduct	-3,147.21		
11 41 23 00-0016	EA	8' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,398.25		2,869.60
		For Refrigerated Boxes Without Floor, Deduct	-3,393.54		
11 41 23 00-0017	EA	8' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,784.78		3,142.89
		For Refrigerated Boxes Without Floor, Deduct	-3,648.29		
11 41 23 00-0018	EA	8' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,138.47		3,416.18
		For Refrigerated Boxes Without Floor, Deduct	-3,895.89		
11 41 23 00-0019 Walk-In Refrigerated Unit, 7'6" High With Floor (11 41 23 00-0001)					
Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.					
11 41 23 00-0020	EA	10' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,609.99		1,639.76
		For Refrigerated Boxes Without Floor, Deduct	-2,356.20		
11 41 23 00-0021	EA	10' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,053.35		1,913.07
		For Refrigerated Boxes Without Floor, Deduct	-2,625.99		
11 41 23 00-0022	EA	10' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,556.93		2,186.36
		For Refrigerated Boxes Without Floor, Deduct	-2,910.32		
11 41 23 00-0023	EA	10' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,980.58		2,459.65
		For Refrigerated Boxes Without Floor, Deduct	-3,175.26		
11 41 23 00-0024	EA	10' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,503.51		2,732.94
		For Refrigerated Boxes Without Floor, Deduct	-3,465.71		
11 41 23 00-0025	EA	10' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,928.68		3,006.24
		For Refrigerated Boxes Without Floor, Deduct	-3,729.38		
11 41 23 00-0026	EA	10' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,455.79		3,279.54
		For Refrigerated Boxes Without Floor, Deduct	-4,021.35		

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0027 EA 10' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,872.80	3,552.83
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,284.77	
11 41 23 00-0028 EA 10' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,399.62	3,826.12
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,575.21	
11 41 23 00-0029 EA 10' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,826.52	4,099.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,840.16	
11 41 23 00-0030 EA 10' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,534.30	4,509.36
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,130.86	
11 41 23 00-0031 EA 10' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,125.67	4,919.30
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,394.27	
11 41 23 00-0032 EA 12' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,398.68	2,049.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,916.44	
11 41 23 00-0033 EA 12' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,053.30	2,323.00
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,239.27	
11 41 23 00-0034 EA 12' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,581.19	2,596.30
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,529.71	
11 41 23 00-0035 EA 12' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,228.13	2,869.60
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,851.01	
11 41 23 00-0036 EA 12' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,763.58	3,142.89
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,142.99	
11 41 23 00-0037 EA 12' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,411.03	3,416.18
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,464.03	
11 41 23 00-0038 EA 12' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,933.27	3,689.48
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,754.48	
11 41 23 00-0039 EA 12' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,591.98	3,962.77
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,077.31	
11 41 23 00-0040 EA 12' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,212.48	4,304.39
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,367.75	
11 41 23 00-0041 EA 12' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,043.66	4,714.34
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,689.05	
11 41 23 00-0042 EA 12' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,756.47	5,124.27
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,981.03	
11 41 23 00-0043 EA 12' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,581.33	5,534.21
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,302.07	
11 41 23 00-0044 EA 12' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,284.00	5,944.16
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,592.52	
11 41 23 00-0045 Walk-In Refrigerated Unit, 7'-6" High With Floor (11 41 23 00-0001)		
Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.		
11 41 23 00-0046 EA 14' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,910.02	2,459.65
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,907.62	
11 41 23 00-0047 EA 14' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,745.07	2,732.94
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,276.10	
11 41 23 00-0048 EA 14' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,727.16	3,006.24
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,679.00	
11 41 23 00-0049 EA 14' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,561.29	3,279.54
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,047.73	
11 41 23 00-0050 EA 14' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,530.12	3,552.83
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,449.10	
11 41 23 00-0051 EA 14' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,376.20	3,826.12
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,819.36	
11 41 23 00-0052 EA 14' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,348.80	4,099.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,220.73	
11 41 23 00-0053 EA 14' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,368.70	4,509.36
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,589.46	



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0054	EA		14' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,518.01	4,919.30
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,992.36	
11 41 23 00-0055	EA		14' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,560.37	5,329.25
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,360.83	
11 41 23 00-0056	EA		14' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,697.99	5,739.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,762.46	
11 41 23 00-0057	EA		14' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	40,728.68	6,080.81
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,132.46	
11 41 23 00-0058			Walk-In Refrigerated Unit, 7'6" High With Floor (11 41 23 00-0001) Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.		
11 41 23 00-0059	EA		16' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,656.35	2,869.60
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,708.07	
11 41 23 00-0060	EA		16' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,767.08	3,142.89
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,143.86	
11 41 23 00-0061	EA		16' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,810.29	3,416.18
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,563.85	
11 41 23 00-0062	EA		16' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,920.05	3,689.48
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,001.17	
11 41 23 00-0063	EA		16' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,967.38	3,962.77
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,421.16	
11 41 23 00-0064	EA		16' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,169.28	4,304.39
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,856.95	
11 41 23 00-0065	EA		16' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,401.32	4,714.34
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,278.47	
11 41 23 00-0066	EA		16' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	37,689.41	5,124.27
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,714.26	
11 41 23 00-0067	EA		16' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,910.03	5,534.21
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,134.25	
11 41 23 00-0068	EA		16' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,200.22	5,944.16
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,571.57	
11 41 23 00-0069	EA		18' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,493.17	3,279.54
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,530.70	
11 41 23 00-0070	EA		18' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,655.80	3,552.83
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,980.52	
11 41 23 00-0071	EA		18' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,929.26	3,826.12
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,457.62	
11 41 23 00-0072	EA		18' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,090.56	4,099.42
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,906.17	
11 41 23 00-0073	EA		18' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,549.06	4,509.36
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,384.55	
11 41 23 00-0074	EA		18' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	37,880.95	4,919.30
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,833.09	
11 41 23 00-0075	EA		18' x 30' Walk-in Refrigerated Box, 7' 6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	40,357.83	5,329.25
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,310.20	
11 41 23 00-0076	EA		18' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,688.23	5,739.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,760.02	
11 41 23 00-0077	EA		18' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	45,147.32	6,149.13
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,237.12	
11 41 23 00-0078	EA		18' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	47,654.44	6,650.18
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,685.67	
11 41 23 00-0079			Walk-In Refrigerated Unit, 8'6" High With Floor (11 41 23 00-0001) Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.		
11 41 23 00-0080	EA		6' x 6' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	7,505.41	1,093.18
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,511.90	

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0081	EA	6' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	8,645.12	1,229.83
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,751.34	
11 41 23 00-0082	EA	6' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,494.41	1,366.47
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,918.11	
11 41 23 00-0083	EA	6' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,775.63	1,639.76
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,147.61	
11 41 23 00-0084	EA	6' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	12,385.25	1,913.07
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,458.97	
11 41 23 00-0085	EA	6' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,724.61	2,186.36
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,702.24	
11 41 23 00-0086	EA	6' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,003.42	2,459.65
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,930.97	
11 41 23 00-0087	EA	8' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,880.99	1,366.47
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,014.76	
11 41 23 00-0088	EA	8' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,799.09	1,503.12
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,198.87	
11 41 23 00-0089	EA	8' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	12,197.31	1,776.42
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,456.93	
11 41 23 00-0090	EA	8' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,950.90	2,049.71
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,804.49	
11 41 23 00-0091	EA	8' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,368.88	2,323.00
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,068.16	
11 41 23 00-0092	EA	8' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,789.67	2,596.30
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,331.83	
11 41 23 00-0093	EA	8' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,206.09	2,869.60
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,595.50	
11 41 23 00-0094	EA	8' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,623.22	3,142.89
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,857.90	
11 41 23 00-0095	EA	8' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,046.27	3,416.18
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,122.84	
11 41 23 00-0096		Walk-In Refrigerated Unit, 8'6" High With Floor (11 41 23 00-0001) Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.		
11 41 23 00-0097	EA	10' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	12,179.15	1,639.76
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,498.49	
11 41 23 00-0098	EA	10' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,691.87	1,913.07
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,785.62	
11 41 23 00-0099	EA	10' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,226.05	2,186.36
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,077.60	
11 41 23 00-0100	EA	10' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,719.06	2,459.65
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,359.88	
11 41 23 00-0101	EA	10' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,272.59	2,732.94
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,657.98	
11 41 23 00-0102	EA	10' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,767.12	3,006.24
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,938.99	
11 41 23 00-0103	EA	10' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,324.83	3,279.54
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,238.61	
11 41 23 00-0104	EA	10' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,811.20	3,552.83
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,519.37	
11 41 23 00-0105	EA	10' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,368.62	3,826.12
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,817.46	
11 41 23 00-0106	EA	10' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,864.88	4,099.42
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,099.75	
11 41 23 00-0107	EA	10' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,603.26	4,509.36
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,398.10	



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0108	EA		10' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,263.99	4,850.98
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,678.85	
11 41 23 00-0109	EA		12' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,106.56	2,049.71
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,093.41	
11 41 23 00-0110	EA		12' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,791.78	2,323.00
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,423.89	
11 41 23 00-0111	EA		12' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,389.03	2,596.30
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,731.67	
11 41 23 00-0112	EA		12' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,066.57	2,869.60
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,060.62	
11 41 23 00-0113	EA		12' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,671.38	3,142.89
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,369.94	
11 41 23 00-0114	EA		12' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,349.43	3,416.18
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,698.63	
11 41 23 00-0115	EA		12' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,941.03	3,689.48
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,006.42	
11 41 23 00-0116	EA		12' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,630.34	3,962.77
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,336.90	
11 41 23 00-0117	EA		12' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,320.20	4,304.39
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,644.68	
11 41 23 00-0118	EA		12' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,181.98	4,714.34
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,973.63	
11 41 23 00-0119	EA		12' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,964.15	5,124.27
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,282.95	
11 41 23 00-0120	EA		12' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,819.61	5,534.21
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,611.64	
11 41 23 00-0121	EA		12' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,591.64	5,944.16
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,919.43	
11 41 23 00-0122			Walk-In Refrigerated Unit, 8'6" High With Floor (11 41 23 00-0001) Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.		
11 41 23 00-0123	EA		14' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,679.10	2,459.65
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,099.89	
11 41 23 00-0124	EA		14' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,583.51	2,732.94
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,485.71	
11 41 23 00-0125	EA		14' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,596.20	3,006.24
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,896.26	
11 41 23 00-0126	EA		14' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,499.69	3,279.54
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,282.33	
11 41 23 00-0127	EA		14' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,499.12	3,552.83
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,691.35	
11 41 23 00-0128	EA		14' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,414.56	3,826.12
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,078.95	
11 41 23 00-0129	EA		14' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,417.76	4,099.42
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,487.97	
11 41 23 00-0130	EA		14' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,507.02	4,509.36
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,874.04	
11 41 23 00-0131	EA		14' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,686.93	4,919.30
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,284.59	
11 41 23 00-0132	EA		14' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	37,798.65	5,329.25
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,670.40	
11 41 23 00-0133	EA		14' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,966.87	5,739.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,079.68	
11 41 23 00-0134	EA		14' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,066.92	6,149.13
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,467.02	

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0135 Walk-In Refrigerated Unit, 8'6" High With Floor (11 41 23 00-0001)				
Note: 10 Gauge smooth aluminum floor, galvalume exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.				
11 41 23 00-0136	EA	16' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,564.15	2,869.60
		For Refrigerated Boxes Without Floor, Deduct	-4,935.02	
11 41 23 00-0137	EA	16' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,705.48	3,142.89
		For Refrigerated Boxes Without Floor, Deduct	-5,378.46	
11 41 23 00-0138	EA	16' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,818.05	3,416.18
		For Refrigerated Boxes Without Floor, Deduct	-5,815.79	
11 41 23 00-0139	EA	16' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,958.41	3,689.48
		For Refrigerated Boxes Without Floor, Deduct	-6,260.76	
11 41 23 00-0140	EA	16' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,075.10	3,962.77
		For Refrigerated Boxes Without Floor, Deduct	-6,698.09	
11 41 23 00-0141	EA	16' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,307.60	4,304.39
		For Refrigerated Boxes Without Floor, Deduct	-7,141.53	
11 41 23 00-0142	EA	16' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,609.00	4,714.34
		For Refrigerated Boxes Without Floor, Deduct	-7,580.39	
11 41 23 00-0143	EA	16' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,927.69	5,124.27
		For Refrigerated Boxes Without Floor, Deduct	-8,023.83	
11 41 23 00-0144	EA	16' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	41,217.67	5,534.21
		For Refrigerated Boxes Without Floor, Deduct	-8,461.16	
11 41 23 00-0145	EA	16' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	43,538.46	5,944.16
		For Refrigerated Boxes Without Floor, Deduct	-8,906.13	
11 41 23 00-0146	EA	18' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,462.17	3,279.54
		For Refrigerated Boxes Without Floor, Deduct	-5,772.95	
11 41 23 00-0147	EA	18' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,694.16	3,552.83
		For Refrigerated Boxes Without Floor, Deduct	-6,240.11	
11 41 23 00-0148	EA	18' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,998.22	3,826.12
		For Refrigerated Boxes Without Floor, Deduct	-6,724.86	
11 41 23 00-0149	EA	18' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,228.88	4,099.42
		For Refrigerated Boxes Without Floor, Deduct	-7,190.75	
11 41 23 00-0150	EA	18' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,717.98	4,509.36
		For Refrigerated Boxes Without Floor, Deduct	-7,676.78	
11 41 23 00-0151	EA	18' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,119.23	4,919.30
		For Refrigerated Boxes Without Floor, Deduct	-8,142.66	
11 41 23 00-0152	EA	18' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	41,626.71	5,329.25
		For Refrigerated Boxes Without Floor, Deduct	-8,627.42	
11 41 23 00-0153	EA	18' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,026.47	5,739.19
		For Refrigerated Boxes Without Floor, Deduct	-9,094.58	
11 41 23 00-0154	EA	18' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	46,516.16	6,149.13
		For Refrigerated Boxes Without Floor, Deduct	-9,579.33	
11 41 23 00-0155	EA	18' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	49,092.64	6,650.18
		For Refrigerated Boxes Without Floor, Deduct	-10,045.22	
11 41 23 00-0156 Walk-In Refrigerated Unit Metal Price Add-Ons (11 41 23 00-0001)				
11 41 23 00-0157	SF	Metal Price Add-on, 190 Series Embossed White Polyester vs. 24 Gauge Galvalume	0.43	
11 41 23 00-0158	SF	Metal Price Add-ons, 24 GA White Polyester vs. 24 Gauge Galvalume	0.80	
11 41 23 00-0159	SF	Metal Price Add-ons, 0.038" Stucco Embossed Aluminum vs. 24 Gauge Galvalume	1.13	
11 41 23 00-0160	SF	Metal Price Add-ons, 22 GA Stainless Steel vs. 24 Gauge Galvalume.....	7.96	
11 41 23 00-0161	SF	Metal Price Add-ons, 20 GA Stainless Steel vs. 24 Gauge Galvalume.....	10.40	
11 41 23 00-0162	SF	Metal Price Add-ons, 24 GA Embossed Tan Polyester vs. 24 Gauge Galvalume	1.28	
11 41 23 00-0163	SF	Metal Price Add-ons, 0.040" Embossed White Aluminum vs. 24 Gauge Galvalume	3.16	
11 41 23 00-0164	SF	Metal Price Add-ons, 0.040" Smooth White Aluminum vs. 24 Gauge Galvalume.....	4.08	
11 41 23 00-0165	SF	Metal Price Add-ons, 24 GA Smooth Kynar Painted vs. 24 Gauge Galvalume	4.28	
11 41 23 00-0166	SF	Metal Price Deducts, 14 GA Galvanized vs. 10 Gauge Smooth Aluminum Interior Floor	-5.76	
11 41 23 00-0167	SF	Metal Price Add-ons, 16 GA Stainless Steel Type 430 vs. 10 Gauge Smooth Aluminum Interior Floor	2.40	
11 41 23 00-0168	SF	Metal Price Add-ons, 16 GA Stainless Steel Type 304 vs. 10 Gauge Smooth Aluminum Interior Floor	6.23	
11 41 23 00-0169	SF	Metal Price Add-ons, 12 GA Rigid Aluminum vs. 10 Gauge Smooth Aluminum Interior Floor	5.46	
11 41 23 00-0170	SF	Metal Price Add-ons, 16 GA Rigid Stainless Steel vs. 10 Gauge Smooth Aluminum Interior Floor	17.70	



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0172 Medium Temperature Hermetic System, Indoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0173 208/230 Volt, 1 Phase (11 41 23 00-0172) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0174 EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	2,519.51	153.84
11 41 23 00-0175 EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	2,674.78	179.49
11 41 23 00-0176 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,080.62	205.12
11 41 23 00-0177 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,330.41	230.77
11 41 23 00-0178 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,670.69	256.41
11 41 23 00-0179 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,141.34	307.69
11 41 23 00-0180 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,578.34	358.97
11 41 23 00-0181 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,004.64	410.25
11 41 23 00-0182 208/230 Volt, 3 Phase (11 41 23 00-0172) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0183 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,084.75	205.12
11 41 23 00-0184 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,330.41	230.77
11 41 23 00-0185 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,707.91	256.41
11 41 23 00-0186 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,097.02	307.69
11 41 23 00-0187 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	5,578.34	358.97
11 41 23 00-0188 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	5,953.23	410.25
11 41 23 00-0189 Medium Temperature Hermetic System, Outdoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0190 208/230 Volt, 1 Phase (11 41 23 00-0189) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0191 EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	2,690.88	153.84
11 41 23 00-0192 EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	2,970.24	179.49
11 41 23 00-0193 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,423.94	205.12
11 41 23 00-0194 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,580.37	230.77
11 41 23 00-0195 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,849.74	256.41
11 41 23 00-0196 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,396.62	307.69
11 41 23 00-0197 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,837.75	358.97
11 41 23 00-0198 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,265.83	410.25
11 41 23 00-0199 208/230 Volt, 3 Phase (11 41 23 00-0189) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0200 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,402.08	205.12
11 41 23 00-0201 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,589.23	230.77
11 41 23 00-0202 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,895.83	256.41
11 41 23 00-0203 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,352.89	307.69
11 41 23 00-0204 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,851.34	358.97
11 41 23 00-0205 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,211.46	410.25
11 41 23 00-0206 Low Temperature Hermetic System, Indoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0207 208/230 Volt, 1 Phase (11 41 23 00-0206) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0208 EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	307.70	153.84
11 41 23 00-0209 EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	2,966.69	179.49
11 41 23 00-0210 EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,121.98	205.12
11 41 23 00-0211 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,343.41	230.77
11 41 23 00-0212 EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,641.73	256.41
11 41 23 00-0213 EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,303.84	307.69
11 41 23 00-0214 208/230 Volt, 3 Phase (11 41 23 00-0206) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0215 EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,126.12	205.12
11 41 23 00-0216 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,343.41	230.77
11 41 23 00-0217 EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,680.14	256.41
11 41 23 00-0218 EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,261.30	307.69
11 41 23 00-0219 Low Temperature Hermetic System, Outdoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0220 208/230 Volt, 1 Phase (11 41 23 00-0219) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0221 EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,148.84	153.84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0222 EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,213.69	179.49
11 41 23 00-0223 EA 1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,399.71	205.12
11 41 23 00-0224 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,691.46	230.77
11 41 23 00-0225 EA 2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,031.15	256.41
11 41 23 00-0226 EA 3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,552.03	307.69
11 41 23 00-0227 208/230 Volt, 3 Phase (11 41 23 00-0219) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0228 EA 1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,506.67	205.12
11 41 23 00-0229 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,744.05	230.77
11 41 23 00-0230 EA 2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,073.69	256.41
11 41 23 00-0231 EA 3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,508.89	307.69
11 41 23 00-0232 Medium Temperature Semi-Hermetic System, Indoor (11 41 23 00-0171) Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0233 208/230 Volt, 1 Phase (11 41 23 00-0232) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0234 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,259.67	205.12
11 41 23 00-0235 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	7,415.76	410.25
11 41 23 00-0236 208/230 Volt, 3 Phase (11 41 23 00-0232) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0237 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,262.03	205.12
11 41 23 00-0238 EA 2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,490.88	256.41
11 41 23 00-0239 EA 3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,596.78	307.69
11 41 23 00-0240 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	7,319.44	410.25
11 41 23 00-0241 Medium Temperature Semi-Hermetic System, Outdoor (11 41 23 00-0171) Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0242 208/230 Volt, 1 Phase (11 41 23 00-0241) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0243 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,557.49	205.12
11 41 23 00-0244 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	8,702.19	410.25
11 41 23 00-0245 208/230 Volt, 3 Phase (11 41 23 00-0241) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0246 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,563.40	205.12
11 41 23 00-0247 EA 2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,217.88	256.41
11 41 23 00-0248 EA 3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	6,022.24	307.69
11 41 23 00-0249 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	7,893.22	410.25
11 41 23 00-0250 Low Temperature Semi-Hermetic System, Indoor (11 41 23 00-0171) Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0251 208/230 Volt, 1 Phase (11 41 23 00-0250) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0252 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,310.01	179.49
11 41 23 00-0253 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,546.85	205.12
11 41 23 00-0254 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,154.15	230.77
11 41 23 00-0255 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,804.07	256.41
11 41 23 00-0256 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	6,060.65	307.69
11 41 23 00-0257 208/230 Volt, 3 Phase (11 41 23 00-0250) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0258 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,293.47	179.49
11 41 23 00-0259 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,544.49	205.12
11 41 23 00-0260 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,131.69	230.77
11 41 23 00-0261 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,765.07	256.41



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0262 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	5,853.23	307.69
11 41 23 00-0263 EA 4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	8,127.57	358.97
11 41 23 00-0264 EA 6 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	8,638.03	461.53
11 41 23 00-0265 EA 7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	12,350.45	538.46
11 41 23 00-0266 Low Temperature Semi-Hermetic System, Outdoor (11 41 23 00-0171)		
Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0267 208/230 Volt, 1 Phase (11 41 23 00-0266)		
Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0268 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,630.88	179.49
11 41 23 00-0269 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,819.86	205.12
11 41 23 00-0270 EA 1-1/2 Low Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,438.38	230.77
11 41 23 00-0271 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,092.44	256.41
11 41 23 00-0272 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,368.52	307.69
11 41 23 00-0273 208/230 Volt, 3 Phase (11 41 23 00-0266)		
Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0274 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,578.88	179.49
11 41 23 00-0275 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,822.22	205.12
11 41 23 00-0276 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,429.52	230.77
11 41 23 00-0277 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,048.71	256.41
11 41 23 00-0278 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,181.20	307.69
11 41 23 00-0279 EA 4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	8,940.67	358.97
11 41 23 00-0280 EA 6 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	9,503.14	461.53
11 41 23 00-0281 EA 7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	13,284.11	538.46
11 41 23 00-0282 Walk-In Refrigerated Boxes Accessories (11 41 23)		
11 41 23 00-0283 Accessories (11 41 23 00-0282)		
11 41 23 00-0284 EA Super Door Package, For 36" Or 42" Door.....	590.53	
Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.		
11 41 23 00-0285 EA Super Door Package, For 48" Door.....	783.31	
Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.		
11 41 23 00-0286 EA Super Door Package, For 60" Door.....	783.31	
Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.		
11 41 23 00-0287 EA 14" x 24" Observation Window, Heated.....	871.05	
11 41 23 00-0288 EA Heated Air Vent, Kason.....	335.55	
11 41 23 00-0289 EA Heated Air Vent, Bally Polyvinyl Chloride (PVC).....	748.65	
11 41 23 00-0290 EA Interior Ramps, For 36" Or 42" Wide Doors.....	1,060.10	
11 41 23 00-0291 EA Interior Ramps, For 48" Wide Doors.....	1,157.00	
11 41 23 00-0292 EA Interior Ramps, For 60" Wide Doors.....	1,269.20	
11 41 23 00-0293 EA Exterior Ramps, For 36" Or 42" Wide Doors.....	441.98	
11 41 23 00-0294 EA Exterior Ramps, For 48" Wide Doors.....	792.86	
11 41 23 00-0295 EA Exterior Ramps, For 60" Wide Doors.....	792.86	
11 41 23 00-0296 EA Field Installed Extra Vapor-Proof Lights.....	112.19	
11 41 23 00-0297 EA Field Installed Fluorescent Lights, 48", 2 Tubes.....	558.95	
11 41 23 00-0298 EA Alarm With Digital Thermostat Modularm 75 With Adjustable Setting (Flush Mounted).....	1,037.33	
11 41 23 00-0299 EA Alarm With Digital Thermostat Modularm 75B (Battery Backup) (Flush Mounted).....	1,089.35	
11 41 23 00-0300 EA Alarm With Digital Thermostat National TM100 With Adjustable Setting (Flush Mounted).....	527.33	
11 41 23 00-0301 EA Locking Devices, 36" Or 42" Wide Locking Bar.....	303.95	
11 41 23 00-0302 EA Locking Devices, 48" Wide Locking Bar.....	344.75	
11 41 23 00-0303 EA Locking Devices, 60" Wide Locking Bar.....	344.75	
11 41 23 00-0304 EA Locking Devices, Mortise Dead Bolt (Cooler).....	601.79	
11 41 23 00-0305 EA Locking Devices, Mortise Dead Bolt (Freezer).....	736.43	
11 41 23 00-0306 EA Blast Freezer Kit, For 36" Or 42" Wide Doors.....	1,186.58	
11 41 23 00-0307 EA Blast Freezer Kit, For 48" Wide Doors.....	1,251.86	
11 41 23 00-0308 EA Blast Freezer Kit, For 60" Wide Doors.....	1,286.54	
11 41 23 00-0309 EA Hardware Options, Polished For 36" Or 42" Door.....	56.10	
11 41 23 00-0310 EA Hardware Options, Polished For 48" Or 60" Door.....	45.90	
11 41 23 00-0311 EA Hardware Options, Chrome For 36" Or 42" Door.....	141.78	
11 41 23 00-0312 EA Hardware Options, Chrome For 48" Or 60" Door.....	76.50	
11 41 23 00-0313 EA Hardware Options, Positive Latch, 36" Or 42" Door.....	185.97	
11 41 23 00-0314 EA Hardware Options, Strap Hinges, 36" Or 42" Door.....	137.01	
11 41 23 00-0315 EA 4" Screed Door.....	378.39	
11 41 23 00-0316 EA Doors Cut For Tile.....	451.83	
11 41 23 00-0317 EA 84" High Doors (36" Wide).....	451.83	
11 41 23 00-0318 EA Doors Raised Or Lowered In Panel.....	991.41	
11 41 23 00-0319 EA 57-1/2" Door Section.....	299.85	
11 41 23 00-0320 EA 3 Way (Interior And Exterior) Light Switches.....	247.85	
11 41 23 00-0321 EA 3 Way (1 Side Only) Light Switch.....	126.20	
11 41 23 00-0322 EA Structural Support, 5" Reinforcing Ceilings (Every 23").....	224.05	
11 41 23 00-0323 EA Structural Support, 6" Reinforcing Ceilings (Every 23").....	281.17	

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0324	LF	Structural Support, Self-Supporting Standard Angle.....	30.29	
11 41 23 00-0325	LF	Structural Support, Self-Supporting 6" Channel.....	38.71	
11 41 23 00-0326	LF	Structural Support, Self-Supporting 8" Channel.....	55.28	
11 41 23 00-0327	LF	Structural Support, Self-Supporting 10" Channel.....	87.15	
11 41 23 00-0328	LF	Structural Support, Suspended Ceiling Support	16.69	
11 41 23 00-0329	LF	Factory Prepared Opening, Foam Cut Opening	5.36	
11 41 23 00-0330	LF	Factory Prepared Opening, Metal Capped Opening.....	17.85	
11 41 23 00-0331	LF	Factory Prepared Opening, Wood Framed Opening.....	18.27	
11 41 23 00-0332	LF	Factory Prepared Opening, Metal Capped Wood Framed Opening	27.54	
11 41 23 00-0333	LF	Factory Prepared Opening, Opening For Glass Doors (Doors Provided By Others, No Charge For Opening When Glass Door Purchased Through Manufacturer)	22.95	
11 41 23 00-0334	SF	Outdoor Weather Roofs, Aluminum Roof Caps	10.31	
11 41 23 00-0335	SF	Outdoor Weather Roofs, Membrane Roof Caps	5.61	
11 41 23 00-0336	SF	Outdoor Weather Roofs, Painted Aluminum Roofs.....	12.81	
11 41 23 00-0337	SF	1/8" Aluminum Tread Plate	30.82	
11 41 23 00-0338	SF	3/16" Aluminum Tread Plate	36.24	
11 41 23 00-0339	EA	Digitemp Display Thermometer (Indoor Exterior Wall).....	237.38	
11 41 23 00-0340	EA	4-1/2" Dial Type Thermometer With 5' Cap Tube	213.92	
11 41 23 00-0341	EA	6" Dial Type Thermometer With 5' Cap Tube.....	673.94	
11 41 23 00-0342	EA	2" Dial Type Thermometer (Standard).....	79.28	
11 41 23 00-0343	LF	Extra Capillary Tubing.....	9.18	
11 41 23 00-0344		Partition Wall For Walk-In Refrigerated Boxes (11 41 23 00-0282) Note: Includes 36" x 78" door. Sizes listed as 7'-2"/7'-6" are for either 7'-2" or 7'-6" high refrigerated boxes. Sizes listed as 8'-2"/8'-6" are for either 8'-2" or 8'-6" high refrigerated boxes.		
11 41 23 00-0345	EA	5'-10" Length Partition Wall, 7'-2"/7'-6" High	2,412.62	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	116.08	
11 41 23 00-0346	EA	6'-9-1/2" Length Partition Wall, 7'-2"/7'-6" High	2,627.29	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	126.58	
11 41 23 00-0347	EA	7'-9" Length Partition Wall, 7'-2"/7'-6" High	2,703.24	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	130.15	
11 41 23 00-0348	EA	8'-8-1/2" Length Partition Wall, 7'-2"/7'-6" High	2,922.00	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	140.86	
11 41 23 00-0349	EA	9'-8" Length Partition Wall, 7'-2"/7'-6" High	2,863.32	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	137.70	
11 41 23 00-0350	EA	10'-7-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,076.97	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	148.16	
11 41 23 00-0351	EA	11'-7" Length Partition Wall, 7'-2"/7'-6" High	3,142.72	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	151.22	
11 41 23 00-0352	EA	12'-6-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,446.14	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	166.16	
11 41 23 00-0353	EA	13'-6" Length Partition Wall, 7'-2"/7'-6" High	3,314.02	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	159.32	
11 41 23 00-0354	EA	14'-5-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,528.70	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	169.83	
11 41 23 00-0355	EA	15'-5" Length Partition Wall, 7'-2"/7'-6" High	3,609.75	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	173.66	
11 41 23 00-0356	EA	16'-4-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,825.44	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	184.21	
11 41 23 00-0357	EA	17'-4" Length Partition Wall, 7'-2"/7'-6" High	4,403.36	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	212.88	
11 41 23 00-0358	EA	5'-10" Length Partition Wall, 8'-2"/8'-6" High	2,630.90	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	126.99	
11 41 23 00-0359	EA	6'-9-1/2" Length Partition Wall, 8'-2"/8'-6" High	2,812.93	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	135.86	
11 41 23 00-0360	EA	7'-9" Length Partition Wall, 8'-2"/8'-6" High	2,902.14	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	140.10	
11 41 23 00-0361	EA	8'-8-1/2" Length Partition Wall, 8'-2"/8'-6" High	3,144.36	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	151.98	
11 41 23 00-0362	EA	9'-8" Length Partition Wall, 8'-2"/8'-6" High	3,073.44	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	148.21	
11 41 23 00-0363	EA	10'-7-1/2" Length Partition Wall, 8'-2"/8'-6" High	3,314.63	
		Note: Galvalume both sides.		
		<i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	160.04	



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0364	EA		11'-7" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	3,404.86 164.32	
11 41 23 00-0365	EA		12'-6-1/2" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	 176.15	3,646.06
11 41 23 00-0366	EA		13'-6" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	 172.38	3,575.14
11 41 23 00-0367	EA		14'-5-1/2" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	 184.21	3,816.34
11 41 23 00-0368	EA		15'-5" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	 188.50	3,906.57
11 41 23 00-0369	EA		16'-4-1/2" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	 200.33	4,147.76
11 41 23 00-0370	EA		17'-4" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume On Both Sides, Add</i>	 196.55	4,076.84
11 41 23 00-0371 Glass Doors For Walk-In Refrigerated Boxes (11 41 23 00-0282)					
Note: Factory installed, includes lights and 5 tier shelves.					
11 41 23 00-0372	EA		23" x 67" Glass Door, Displayrite, Coolrite Model.....	1,012.86	
11 41 23 00-0373	EA		23" x 73" Glass Door, Displayrite, Coolrite Model.....	1,106.70	
11 41 23 00-0374	EA		30" x 67" Glass Door, Displayrite, Coolrite Model.....	1,115.88	
11 41 23 00-0375	EA		30" x 73" Glass Door, Displayrite, Coolrite Model.....	1,234.20	
11 41 23 00-0376	EA		23" x 67" Glass Door, Displayrite, Freezerite Model.....	1,354.56	
11 41 23 00-0377	EA		23" x 73" Glass Door, Displayrite, Freezerite Model.....	1,440.24	
11 41 23 00-0378	EA		30" x 67" Glass Door, Displayrite, Freezerite Model.....	1,445.34	
11 41 23 00-0379	EA		30" x 73" Glass Door, Displayrite, Freezerite Model.....	1,681.98	
11 41 23 00-0380	EA		24" x 67" Glass Door, Anthony Model 101.....	1,377.00	
11 41 23 00-0381	EA		26" x 67" Glass Door, Anthony Model 101.....	1,705.44	
11 41 23 00-0382	EA		30" x 67" Glass Door, Anthony Model 101.....	1,820.70	
11 41 23 00-0383	EA		30x75 Glass Door, Anthony Model 101.....	1,859.46	
11 41 23 00-0384	EA		24" x 67" Glass Door, Anthony Model 101.....	2,097.12	
11 41 23 00-0385	EA		26" x 67" Glass Door, Anthony Model 101.....	2,327.64	
11 41 23 00-0386	EA		30" x 67" Glass Door, Anthony Model 101.....	2,370.48	
11 41 23 00-0387	EA		30" x 75" Glass Door, Anthony Model 101.....	2,528.58	
11 41 23 00-0388	EA		23" x 67" Glass Door, Anthony Model 401.....	1,087.32	
11 41 23 00-0389	EA		26-3/4" x 67" Glass Door, Anthony Model 401.....	1,145.46	
11 41 23 00-0390	EA		30-1/4" x 67" Glass Door, Anthony Model 401.....	1,540.20	
11 41 23 00-0391	EA		30-1/4" x 75" Glass Door, Anthony Model 401.....	1,320.90	
11 41 23 00-0392	EA		23" x 67" Glass Door, Anthony Model 401.....	1,466.76	
11 41 23 00-0393	EA		26-3/4" x 67" Glass Door, Anthony Model 401.....	1,535.10	
11 41 23 00-0394	EA		30-1/4" x 67" Glass Door, Anthony Model 401.....	1,540.20	
11 41 23 00-0395	EA		30-1/4" x 75" Glass Door, Anthony Model 401.....	1,833.96	
11 41 23 00-0396 Modular Wire Shelving For Walk-In Refrigerated Boxes (11 41 23 00-0282)					
11 41 23 00-0397	EA		14" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	382.49 402.00	
11 41 23 00-0398	EA		14" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	403.36
11 41 23 00-0399	EA		14" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	448.71
11 41 23 00-0400	EA		14" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	473.67
11 41 23 00-0401	EA		14" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	515.42
11 41 23 00-0402	EA		18" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	440.08
11 41 23 00-0403	EA		18" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	451.77
11 41 23 00-0404	EA		18" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	498.15
11 41 23 00-0405	EA		18" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	521.07
11 41 23 00-0406	EA		18" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	594.43
11 41 23 00-0407	EA		21" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	479.31
11 41 23 00-0408	EA		21" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	485.91
11 41 23 00-0409	EA		21" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	552.69
11 41 23 00-0410	EA		21" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	557.24
11 41 23 00-0411	EA		21" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	 402.00	640.80

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0412 EA 14" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	329.45	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0413 EA 14" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	346.24	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0414 EA 14" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	379.35	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0415 EA 14" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	387.99	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0416 EA 14" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	441.98	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0417 EA 18" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	362.56	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0418 EA 18" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	388.53	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0419 EA 18" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	411.45	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0420 EA 18" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	418.05	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0421 EA 18" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	491.41	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0422 EA 21" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	397.71	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0423 EA 21" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	413.49	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0424 EA 21" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	443.55	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0425 EA 21" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	460.34	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0426 EA 21" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts.....	535.74	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0427 EA 14" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,681.83	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0428 EA 14" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,876.59	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0429 EA 14" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,913.93	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0430 EA 14" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,951.29	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0431 EA 14" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,360.49	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0432 EA 18" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,765.09	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0433 EA 18" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,874.58	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0434 EA 18" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,075.91	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0435 EA 18" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,159.17	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0436 EA 18" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,640.52	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0437 EA 21" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	1,907.37	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0438 EA 21" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,082.47	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0439 EA 21" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,283.79	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0440 EA 21" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	2,367.05	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0441 EA 21" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts.....	3,005.81	
For Cantilever Shelving, Add	402.00	
11 41 23 00-0442 EA 14" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	451.23	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0443 EA 14" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	486.39	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0444 EA 14" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	526.64	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0445 EA 14" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	563.83	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0446 EA 14" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	611.70	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0447 EA 18" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	532.29	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0448 EA 18" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	546.02	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0449 EA 18" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	601.57	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0450 EA 18" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	630.60	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0451 EA 18" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	719.28	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0452 EA 21" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	579.68	
For Cantilever Shelving, Add	472.00	
11 41 23 00-0453 EA 21" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts.....	598.51	
For Cantilever Shelving, Add	472.00	



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0454	EA		21" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	661.20 472.00	
11 41 23 00-0455	EA		21" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	675.96 472.00	
11 41 23 00-0456	EA		21" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	774.83 472.00	
11 41 23 00-0457	EA		14" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	386.97 472.00	
11 41 23 00-0458	EA		14" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	406.83 472.00	
11 41 23 00-0459	EA		14" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	447.08 472.00	
11 41 23 00-0460	EA		14" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	456.73 472.00	
11 41 23 00-0461	EA		14" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	521.94 472.00	
11 41 23 00-0462	EA		18" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	436.41 472.00	
11 41 23 00-0463	EA		18" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	466.46 472.00	
11 41 23 00-0464	EA		18" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	530.17 472.00	
11 41 23 00-0465	EA		18" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	526.56 472.00	
11 41 23 00-0466	EA		18" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	588.72 472.00	
11 41 23 00-0467	EA		21" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	478.70 472.00	
11 41 23 00-0468	EA		21" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	497.53 472.00	
11 41 23 00-0469	EA		21" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	534.72 472.00	
11 41 23 00-0470	EA		21" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	553.56 472.00	
11 41 23 00-0471	EA		21" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	646.31 472.00	
11 41 23 00-0472	EA		14" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,052.95 472.00	
11 41 23 00-0473	EA		14" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,295.27 472.00	
11 41 23 00-0474	EA		14" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,340.82 472.00	
11 41 23 00-0475	EA		14" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,386.36 472.00	
11 41 23 00-0476	EA		14" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,895.59 472.00	
11 41 23 00-0477	EA		18" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,155.90 472.00	
11 41 23 00-0478	EA		18" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,291.62 472.00	
11 41 23 00-0479	EA		18" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,542.13 472.00	
11 41 23 00-0480	EA		18" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,645.07 472.00	
11 41 23 00-0481	EA		18" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	3,244.49 472.00	
11 41 23 00-0482	EA		21" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,332.62 472.00	
11 41 23 00-0483	EA		21" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,550.33 472.00	
11 41 23 00-0484	EA		21" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,800.84 472.00	
11 41 23 00-0485	EA		21" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,903.79 472.00	
11 41 23 00-0486	EA		21" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	3,699.97 472.00	

11 41 31 Non-Refrigerated Storage Equipment^(11 41)

11 41 31 00-0001	Wall Cabinets ^(11 41 31)			
11 41 31 00-0002	EA		48" Wall Cabinet With Sliding Doors..... Note: 15" deep and 24" high.	1,727.53 70.60
11 41 31 00-0003	EA		72" Wall Cabinet With Sliding Doors..... Note: 15" deep and 24" high.	2,279.43 93.20
11 41 31 00-0004	EA		72" Wall Cabinet With Hinged Doors..... Note: 15" deep and 24" high.	2,616.29 106.85
11 41 31 00-0005	EA		72" Wall Cabinet With Open Shelves..... Note: 15" deep and 24" high.	1,674.39 68.16
11 41 31 00-0006	Mobile Sheet Pan Truck ^(11 41 31)			
11 41 31 00-0007	EA		2 Level Mobile Sheet Pan Truck.....	162.80 7.00

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 31 00-0008		Pot And Utensil Rack ^(11 41 31)		
11 41 31 00-0009	EA	70" Bench Type Pot And Utensil Rack.....	475.36	21.35
11 41 31 00-0010	EA	94" Bench Type Pot And Utensil Rack.....	550.65	24.13
11 41 31 00-0011	EA	94" Ceiling Type Pot And Utensil Rack.....	654.74	28.91
11 41 31 00-0012	EA	96" Wall Type Pot And Utensil Rack.....	356.09	15.79
11 41 31 00-0013		Tray And Silverware Cart ^(11 41 31)		
11 41 31 00-0014	EA	33" x 22-1/2" x 42" Tray And Silverware Cart	1,643.31	72.05
11 41 31 00-0015		Flat Top Utility Units ^(11 41 31)		
11 41 31 00-0016	EA	39" x 28-1/2" x 35-3/8" Flat Top Utility Units	1,120.48	49.25
11 41 31 00-0017	EA	79-1/2" x 28-1/2" x 35-3/8" Flat Top Utility Units	1,501.45	65.82
11 41 33		Foodservice Shelving ^(11 41)		
11 41 33 00-0001		Shelving/Racks ^(11 41 33)		
11 41 33 00-0002		Chrome Shelving Units ^(11 41 33 00-0001)		
11 41 33 00-0003		54" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit ^(11 41 33 00-0002)		
11 41 33 00-0004	EA	14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	187.89	29.07
11 41 33 00-0005	EA	14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	196.49	29.32
11 41 33 00-0006	EA	14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	207.07	29.56
11 41 33 00-0007	EA	14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	213.72	29.80
11 41 33 00-0008	EA	14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	226.23	30.04
11 41 33 00-0009	EA	14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	236.85	30.28
11 41 33 00-0010	EA	14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	245.45	30.52
11 41 33 00-0011	EA	14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	264.62	30.99
11 41 33 00-0012	EA	18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	202.39	29.32
11 41 33 00-0013	EA	18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	209.04	29.56
11 41 33 00-0014	EA	18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	215.70	29.80
11 41 33 00-0015	EA	18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	234.15	30.04
11 41 33 00-0016	EA	18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	246.70	30.28
11 41 33 00-0017	EA	18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	263.18	30.52
11 41 33 00-0018	EA	18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	269.79	30.76
11 41 33 00-0019	EA	18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	292.96	31.23
11 41 33 00-0020	EA	21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	211.02	29.56
11 41 33 00-0021	EA	21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	225.51	29.80
11 41 33 00-0022	EA	21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	236.13	30.04
11 41 33 00-0023	EA	21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	248.64	30.28
11 41 33 00-0024	EA	21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	257.28	30.52
11 41 33 00-0025	EA	21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	277.71	30.76
11 41 33 00-0026	EA	21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	288.28	30.99
11 41 33 00-0027	EA	21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	315.36	31.47
11 41 33 00-0028	EA	24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	229.51	29.80
11 41 33 00-0029	EA	24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	238.11	30.04
11 41 33 00-0030	EA	24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	244.72	30.28
11 41 33 00-0031	EA	24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	261.24	30.52
11 41 33 00-0032	EA	24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	271.81	30.76
11 41 33 00-0033	EA	24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	292.24	30.99
11 41 33 00-0034	EA	24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	306.73	31.23
11 41 33 00-0035	EA	24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	341.73	31.71
11 41 33 00-0036	EA	30" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	293.31	30.04
11 41 33 00-0037	EA	30" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	325.52	30.28
11 41 33 00-0038	EA	30" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	346.00	30.52
11 41 33 00-0039	EA	30" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	392.07	30.76
11 41 33 00-0040	EA	36" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	321.80	30.99
11 41 33 00-0041	EA	36" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	352.12	31.23
11 41 33 00-0042	EA	36" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	390.24	31.47
11 41 33 00-0043	EA	36" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	452.10	31.95
11 41 33 00-0044		63" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit ^(11 41 33 00-0002)		
11 41 33 00-0045	EA	14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	189.83	29.07
11 41 33 00-0046	EA	14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	198.43	29.32
11 41 33 00-0047	EA	14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	209.00	29.56
11 41 33 00-0048	EA	14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	215.66	29.80
11 41 33 00-0049	EA	14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	228.17	30.04
11 41 33 00-0050	EA	14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	238.78	30.28
11 41 33 00-0051	EA	14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	247.39	30.52
11 41 33 00-0052	EA	14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	266.55	30.99
11 41 33 00-0053	EA	18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	204.32	29.32
11 41 33 00-0054	EA	18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	210.98	29.56
11 41 33 00-0055	EA	18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	217.64	29.80
11 41 33 00-0056	EA	18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	236.08	30.04
11 41 33 00-0057	EA	18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	248.64	30.28



	Equipment	11	
	Foodservice Equipment	11 40	11
	Foodservice Storage Equipment	11 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0058 EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	265.11	30.52
11 41 33 00-0059 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	271.73	30.76
11 41 33 00-0060 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	275.74	31.23
11 41 33 00-0061 EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	212.96	29.56
11 41 33 00-0062 EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	227.45	29.80
11 41 33 00-0063 EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	238.06	30.04
11 41 33 00-0064 EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	250.57	30.28
11 41 33 00-0065 EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	259.22	30.52
11 41 33 00-0066 EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	279.64	30.76
11 41 33 00-0067 EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	290.22	30.99
11 41 33 00-0068 EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	317.30	31.47
11 41 33 00-0069 EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	231.45	29.80
11 41 33 00-0070 EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	240.04	30.04
11 41 33 00-0071 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	246.66	30.28
11 41 33 00-0072 EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	263.18	30.52
11 41 33 00-0073 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	273.75	30.76
11 41 33 00-0074 EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	294.17	30.99
11 41 33 00-0075 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	308.66	31.23
11 41 33 00-0076 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	343.67	31.71
11 41 33 00-0077 EA 30" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	295.24	30.04
11 41 33 00-0078 EA 30" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	327.46	30.28
11 41 33 00-0079 EA 30" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	347.93	30.52
11 41 33 00-0080 EA 30" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	394.00	30.76
11 41 33 00-0081 EA 36" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	323.73	30.99
11 41 33 00-0082 EA 36" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	354.05	31.23
11 41 33 00-0083 EA 36" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	392.20	31.47
11 41 33 00-0084 EA 36" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	454.03	31.95
11 41 33 00-0085 66" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0086 EA 14" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	190.84	29.07
11 41 33 00-0087 EA 14" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	199.44	29.32
11 41 33 00-0088 EA 14" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	210.01	29.56
11 41 33 00-0089 EA 14" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	216.67	29.80
11 41 33 00-0090 EA 14" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	229.18	30.04
11 41 33 00-0091 EA 14" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	239.79	30.28
11 41 33 00-0092 EA 14" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	248.40	30.52
11 41 33 00-0093 EA 14" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	267.56	30.99
11 41 33 00-0094 EA 18" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	205.34	29.32
11 41 33 00-0095 EA 18" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	211.99	29.56
11 41 33 00-0096 EA 18" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	218.65	29.80
11 41 33 00-0097 EA 18" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	237.10	30.04
11 41 33 00-0098 EA 18" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	249.65	30.28
11 41 33 00-0099 EA 18" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	266.12	30.52
11 41 33 00-0100 EA 18" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	272.74	30.76
11 41 33 00-0101 EA 18" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	295.91	31.23
11 41 33 00-0102 EA 21" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	213.97	29.56
11 41 33 00-0103 EA 21" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	228.46	29.80
11 41 33 00-0104 EA 21" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	239.07	30.04
11 41 33 00-0105 EA 21" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	251.58	30.28
11 41 33 00-0106 EA 21" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	260.23	30.52
11 41 33 00-0107 EA 21" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	280.65	30.76
11 41 33 00-0108 EA 21" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	291.23	30.99
11 41 33 00-0109 EA 21" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	318.31	31.47
11 41 33 00-0110 EA 24" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	232.46	29.80
11 41 33 00-0111 EA 24" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	241.05	30.04
11 41 33 00-0112 EA 24" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	247.67	30.28
11 41 33 00-0113 EA 24" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	264.19	30.52
11 41 33 00-0114 EA 24" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	274.76	30.76
11 41 33 00-0115 EA 24" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	295.19	30.99
11 41 33 00-0116 EA 24" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	309.67	31.23
11 41 33 00-0117 EA 24" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	344.68	31.71
11 41 33 00-0118 EA 30" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	296.25	30.04
11 41 33 00-0119 EA 30" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	328.47	30.28
11 41 33 00-0120 EA 30" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	348.95	30.52
11 41 33 00-0121 EA 30" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	395.01	30.76
11 41 33 00-0122 EA 36" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	324.74	30.99
11 41 33 00-0123 EA 36" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	355.06	31.23
11 41 33 00-0124 EA 36" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	393.20	31.47
11 41 33 00-0125 EA 36" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	455.04	31.95
11 41 33 00-0126 74" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0127 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	193.78	29.07
11 41 33 00-0128 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	202.39	29.32
11 41 33 00-0129 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	212.96	29.56
11 41 33 00-0130 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	219.62	29.80
11 41 33 00-0131 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	232.13	30.04
11 41 33 00-0132 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	242.74	30.28
11 41 33 00-0133 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	251.35	30.52
11 41 33 00-0134 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	270.51	30.99

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0135 EA 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	208.28	29.32
11 41 33 00-0136 EA 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	214.94	29.56
11 41 33 00-0137 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	221.60	29.80
11 41 33 00-0138 EA 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	240.04	30.04
11 41 33 00-0139 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	252.59	30.28
11 41 33 00-0140 EA 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	269.07	30.52
11 41 33 00-0141 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	275.69	30.76
11 41 33 00-0142 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	298.85	31.23
11 41 33 00-0143 EA 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	216.92	29.56
11 41 33 00-0144 EA 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	231.41	29.80
11 41 33 00-0145 EA 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	242.02	30.04
11 41 33 00-0146 EA 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	254.53	30.28
11 41 33 00-0147 EA 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	263.18	30.52
11 41 33 00-0148 EA 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	283.60	30.76
11 41 33 00-0149 EA 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	294.17	30.99
11 41 33 00-0150 EA 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	321.26	31.47
11 41 33 00-0151 EA 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	235.41	29.80
11 41 33 00-0152 EA 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	244.00	30.04
11 41 33 00-0153 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	250.62	30.28
11 41 33 00-0154 EA 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	267.13	30.52
11 41 33 00-0155 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	277.71	30.76
11 41 33 00-0156 EA 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	298.13	30.99
11 41 33 00-0157 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	312.62	31.23
11 41 33 00-0158 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	347.63	31.71
11 41 33 00-0159 EA 30" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	299.20	30.04
11 41 33 00-0160 EA 30" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	331.42	30.28
11 41 33 00-0161 EA 30" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	351.89	30.52
11 41 33 00-0162 EA 30" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	397.96	30.76
11 41 33 00-0163 EA 36" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	327.69	30.99
11 41 33 00-0164 EA 36" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	358.01	31.23
11 41 33 00-0165 EA 36" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	396.16	31.47
11 41 33 00-0166 EA 36" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	457.99	31.95
11 41 33 00-0167 86" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0168 EA 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	201.66	29.07
11 41 33 00-0169 EA 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	210.26	29.32
11 41 33 00-0170 EA 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	220.83	29.56
11 41 33 00-0171 EA 14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	227.49	29.80
11 41 33 00-0172 EA 14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	240.00	30.04
11 41 33 00-0173 EA 14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	250.62	30.28
11 41 33 00-0174 EA 14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	259.22	30.52
11 41 33 00-0175 EA 14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	278.39	30.99
11 41 33 00-0176 EA 18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	216.16	29.32
11 41 33 00-0177 EA 18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	222.81	29.56
11 41 33 00-0178 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	229.47	29.80
11 41 33 00-0179 EA 18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	247.92	30.04
11 41 33 00-0180 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	260.47	30.28
11 41 33 00-0181 EA 18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	276.95	30.52
11 41 33 00-0182 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	283.56	30.76
11 41 33 00-0183 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	306.73	31.23
11 41 33 00-0184 EA 21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	224.79	29.56
11 41 33 00-0185 EA 21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	239.28	29.80
11 41 33 00-0186 EA 21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	249.90	30.04
11 41 33 00-0187 EA 21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	262.40	30.28
11 41 33 00-0188 EA 21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	271.05	30.52
11 41 33 00-0189 EA 21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	291.48	30.76
11 41 33 00-0190 EA 21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	302.05	30.99
11 41 33 00-0191 EA 21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	329.13	31.47
11 41 33 00-0192 EA 24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	243.28	29.80
11 41 33 00-0193 EA 24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	251.87	30.04
11 41 33 00-0194 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	258.49	30.28
11 41 33 00-0195 EA 24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	275.01	30.52
11 41 33 00-0196 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	285.58	30.76
11 41 33 00-0197 EA 24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	306.01	30.99
11 41 33 00-0198 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	320.49	31.23
11 41 33 00-0199 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	355.50	31.71
11 41 33 00-0200 EA 30" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	307.07	30.04
11 41 33 00-0201 EA 30" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	339.29	30.28
11 41 33 00-0202 EA 30" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	359.77	30.52
11 41 33 00-0203 EA 30" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	405.83	30.76
11 41 33 00-0204 EA 36" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	335.56	30.99
11 41 33 00-0205 EA 36" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	365.88	31.23
11 41 33 00-0206 EA 36" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	404.04	31.47
11 41 33 00-0207 EA 36" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	465.86	31.95
11 41 33 00-0208 96" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0209 EA 14" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	230.74	29.07
11 41 33 00-0210 EA 14" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	241.31	29.32
11 41 33 00-0211 EA 14" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	254.35	29.56



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0212 EA 14" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	262.49	29.80
11 41 33 00-0213 EA 14" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	277.95	30.04
11 41 33 00-0214 EA 14" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	291.04	30.28
11 41 33 00-0215 EA 14" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	301.61	30.52
11 41 33 00-0216 EA 14" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	325.21	30.99
11 41 33 00-0217 EA 18" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	248.68	29.32
11 41 33 00-0218 EA 18" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	256.82	29.56
11 41 33 00-0219 EA 18" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	264.96	29.80
11 41 33 00-0220 EA 18" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	287.84	30.04
11 41 33 00-0221 EA 18" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	303.35	30.28
11 41 33 00-0222 EA 18" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	323.77	30.52
11 41 33 00-0223 EA 18" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	331.85	30.76
11 41 33 00-0224 EA 18" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	360.45	31.23
11 41 33 00-0225 EA 21" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	259.30	29.56
11 41 33 00-0226 EA 21" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	277.23	29.80
11 41 33 00-0227 EA 21" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	290.32	30.04
11 41 33 00-0228 EA 21" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	305.77	30.28
11 41 33 00-0229 EA 21" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	316.40	30.52
11 41 33 00-0230 EA 21" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	341.75	30.76
11 41 33 00-0231 EA 21" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	354.79	30.99
11 41 33 00-0232 EA 21" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	388.28	31.47
11 41 33 00-0233 EA 24" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	282.23	29.80
11 41 33 00-0234 EA 24" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	292.79	30.04
11 41 33 00-0235 EA 24" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	300.88	30.28
11 41 33 00-0236 EA 24" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	321.35	30.52
11 41 33 00-0237 EA 24" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	334.38	30.76
11 41 33 00-0238 EA 24" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	359.73	30.99
11 41 33 00-0239 EA 24" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	377.66	31.23
11 41 33 00-0240 EA 24" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	421.06	31.71
11 41 33 00-0241 EA 30" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	361.79	30.04
11 41 33 00-0242 EA 30" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	401.88	30.28
11 41 33 00-0243 EA 30" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	427.29	30.52
11 41 33 00-0244 EA 30" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	484.70	30.76
11 41 33 00-0245 EA 36" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	396.68	30.99
11 41 33 00-0246 EA 36" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	434.40	31.23
11 41 33 00-0247 EA 36" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	481.91	31.47
11 41 33 00-0248 EA 36" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	558.83	31.95
11 41 33 00-0249 Galvanized Shelving Units (11 41 33 00-0001)		
11 41 33 00-0250 54" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0251 EA 14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	207.55	29.07
11 41 33 00-0252 EA 14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	216.70	29.32
11 41 33 00-0253 EA 14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	227.99	29.56
11 41 33 00-0254 EA 14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	237.13	29.80
11 41 33 00-0255 EA 14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	250.53	30.04
11 41 33 00-0256 EA 14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	261.77	30.28
11 41 33 00-0257 EA 14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	273.07	30.52
11 41 33 00-0258 EA 14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	291.35	30.99
11 41 33 00-0259 EA 18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	223.02	29.32
11 41 33 00-0260 EA 18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	230.10	29.56
11 41 33 00-0261 EA 18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	243.45	29.80
11 41 33 00-0262 EA 18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	258.95	30.04
11 41 33 00-0263 EA 18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	272.34	30.28
11 41 33 00-0264 EA 18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	289.91	30.52
11 41 33 00-0265 EA 18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	303.31	30.76
11 41 33 00-0266 EA 18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	323.77	31.23
11 41 33 00-0267 EA 21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	232.20	29.56
11 41 33 00-0268 EA 21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	249.81	29.80
11 41 33 00-0269 EA 21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	261.05	30.04
11 41 33 00-0270 EA 21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	274.45	30.28
11 41 33 00-0271 EA 21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	283.60	30.52
11 41 33 00-0272 EA 21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	307.52	30.76
11 41 33 00-0273 EA 21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	318.81	30.99
11 41 33 00-0274 EA 21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	351.87	31.47
11 41 33 00-0275 EA 24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	254.02	29.80
11 41 33 00-0276 EA 24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	263.16	30.04
11 41 33 00-0277 EA 24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	270.24	30.28
11 41 33 00-0278 EA 24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	287.81	30.52
11 41 33 00-0279 EA 24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	307.52	30.76
11 41 33 00-0280 EA 24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	329.33	30.99
11 41 33 00-0281 EA 24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	346.94	31.23
11 41 33 00-0282 EA 24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	386.37	31.71
11 41 33 00-0283 63" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0284 EA 14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	211.76	29.07
11 41 33 00-0285 EA 14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	220.91	29.32
11 41 33 00-0286 EA 14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	232.20	29.56
11 41 33 00-0287 EA 14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	241.34	29.80

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0288 EA 14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	254.74	30.04
11 41 33 00-0289 EA 14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	265.98	30.28
11 41 33 00-0290 EA 14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	277.28	30.52
11 41 33 00-0291 EA 14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	295.56	30.99
11 41 33 00-0292 EA 18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	227.23	29.32
11 41 33 00-0293 EA 18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	234.31	29.56
11 41 33 00-0294 EA 18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	247.66	29.80
11 41 33 00-0295 EA 18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	263.16	30.04
11 41 33 00-0296 EA 18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	276.55	30.28
11 41 33 00-0297 EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	294.12	30.52
11 41 33 00-0298 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	307.52	30.76
11 41 33 00-0299 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	327.95	31.23
11 41 33 00-0300 EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	236.41	29.56
11 41 33 00-0301 EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	254.02	29.80
11 41 33 00-0302 EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	265.26	30.04
11 41 33 00-0303 EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	278.66	30.28
11 41 33 00-0304 EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	287.81	30.52
11 41 33 00-0305 EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	311.73	30.76
11 41 33 00-0306 EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	323.02	30.99
11 41 33 00-0307 EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	356.08	31.47
11 41 33 00-0308 EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	258.23	29.80
11 41 33 00-0309 EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	267.37	30.04
11 41 33 00-0310 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	274.45	30.28
11 41 33 00-0311 EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	292.02	30.52
11 41 33 00-0312 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	311.73	30.76
11 41 33 00-0313 EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	333.54	30.99
11 41 33 00-0314 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	351.15	31.23
11 41 33 00-0315 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	390.58	31.71
11 41 33 00-0316 74" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0317 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	215.97	29.07
11 41 33 00-0318 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	225.12	29.32
11 41 33 00-0319 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	236.41	29.56
11 41 33 00-0320 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	245.55	29.80
11 41 33 00-0321 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	258.95	30.04
11 41 33 00-0322 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	270.19	30.28
11 41 33 00-0323 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	281.49	30.52
11 41 33 00-0324 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	299.77	30.99
11 41 33 00-0325 EA 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	231.44	29.32
11 41 33 00-0326 EA 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	238.52	29.56
11 41 33 00-0327 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	251.87	29.80
11 41 33 00-0328 EA 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	267.37	30.04
11 41 33 00-0329 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	280.76	30.28
11 41 33 00-0330 EA 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	298.33	30.52
11 41 33 00-0331 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	311.73	30.76
11 41 33 00-0332 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	332.16	31.23
11 41 33 00-0333 EA 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	240.62	29.56
11 41 33 00-0334 EA 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	258.23	29.80
11 41 33 00-0335 EA 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	269.47	30.04
11 41 33 00-0336 EA 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	282.87	30.28
11 41 33 00-0337 EA 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	292.02	30.52
11 41 33 00-0338 EA 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	315.94	30.76
11 41 33 00-0339 EA 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	327.23	30.99
11 41 33 00-0340 EA 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	360.29	31.47
11 41 33 00-0341 EA 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	262.44	29.80
11 41 33 00-0342 EA 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	271.58	30.04
11 41 33 00-0343 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	278.66	30.28
11 41 33 00-0344 EA 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	296.23	30.52
11 41 33 00-0345 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	315.94	30.76
11 41 33 00-0346 EA 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	337.75	30.99
11 41 33 00-0347 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	355.36	31.23
11 41 33 00-0348 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	394.79	31.71
11 41 33 00-0349 86" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0350 EA 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	226.54	29.07
11 41 33 00-0351 EA 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	235.69	29.32
11 41 33 00-0352 EA 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	246.98	29.56
11 41 33 00-0353 EA 14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	256.12	29.80
11 41 33 00-0354 EA 14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	269.52	30.04
11 41 33 00-0355 EA 14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	280.76	30.28
11 41 33 00-0356 EA 14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	292.06	30.52
11 41 33 00-0357 EA 14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	310.34	30.99
11 41 33 00-0358 EA 18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	242.01	29.32
11 41 33 00-0359 EA 18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	249.09	29.56
11 41 33 00-0360 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	262.44	29.80
11 41 33 00-0361 EA 18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	277.94	30.04
11 41 33 00-0362 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	291.33	30.28
11 41 33 00-0363 EA 18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	308.90	30.52
11 41 33 00-0364 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	322.30	30.76



		Equipment	11	11
		Foodservice Equipment	11 40	
		Foodservice Storage Equipment	11 41	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
11 41 33 00-0365	EA	18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	342.73		31.23
11 41 33 00-0366	EA	21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	251.19		29.56
11 41 33 00-0367	EA	21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	268.80		29.80
11 41 33 00-0368	EA	21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	280.04		30.04
11 41 33 00-0369	EA	21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	293.44		30.28
11 41 33 00-0370	EA	21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	302.59		30.52
11 41 33 00-0371	EA	21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	326.51		30.76
11 41 33 00-0372	EA	21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	337.80		30.99
11 41 33 00-0373	EA	21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	370.86		31.47
11 41 33 00-0374	EA	24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	273.01		29.80
11 41 33 00-0375	EA	24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	282.15		30.04
11 41 33 00-0376	EA	24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	289.23		30.28
11 41 33 00-0377	EA	24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	306.80		30.52
11 41 33 00-0378	EA	24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	326.51		30.76
11 41 33 00-0379	EA	24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	348.32		30.99
11 41 33 00-0380	EA	24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	365.93		31.23
11 41 33 00-0381	EA	24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	405.36		31.71
11 41 33 00-0382 54" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)					
11 41 33 00-0383	EA	18" x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	363.70		29.80
11 41 33 00-0384	EA	18" x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	396.80		30.28
11 41 33 00-0385	EA	18" x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	440.44		30.76
11 41 33 00-0386	EA	18" x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	467.19		31.23
11 41 33 00-0387	EA	24" x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	394.66		30.28
11 41 33 00-0388	EA	24" x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	450.97		30.76
11 41 33 00-0389	EA	24" x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	494.60		31.23
11 41 33 00-0390	EA	24" x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	559.33		31.71
11 41 33 00-0391 63" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)					
11 41 33 00-0392	EA	18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	367.91		29.80
11 41 33 00-0393	EA	18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	401.02		30.28
11 41 33 00-0394	EA	18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	444.65		30.76
11 41 33 00-0395	EA	18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	471.40		31.23
11 41 33 00-0396	EA	24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	398.87		30.28
11 41 33 00-0397	EA	24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	455.18		30.76
11 41 33 00-0398	EA	24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	498.81		31.23
11 41 33 00-0399	EA	24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	563.54		31.71
11 41 33 00-0400 74" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)					
11 41 33 00-0401	EA	18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	372.12		29.80
11 41 33 00-0402	EA	18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	405.23		30.28
11 41 33 00-0403	EA	18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	448.87		30.76
11 41 33 00-0404	EA	18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	475.61		31.23
11 41 33 00-0405	EA	24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	403.08		30.28
11 41 33 00-0406	EA	24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	459.39		30.76
11 41 33 00-0407	EA	24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	503.02		31.23
11 41 33 00-0408	EA	24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	567.76		31.71
11 41 33 00-0409 86" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)					
11 41 33 00-0410	EA	18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	382.69		29.80
11 41 33 00-0411	EA	18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	415.79		30.28
11 41 33 00-0412	EA	18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	459.43		30.76
11 41 33 00-0413	EA	18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	486.18		31.23
11 41 33 00-0414	EA	24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	413.65		30.28
11 41 33 00-0415	EA	24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	469.96		30.76
11 41 33 00-0416	EA	24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	513.59		31.23
11 41 33 00-0417	EA	24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	578.32		31.71
11 41 33 00-0418 Stainless Steel Shelving Unit (11 41 33 00-0001)					
11 41 33 00-0419 63" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)					
11 41 33 00-0420	EA	18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	614.73		29.80
11 41 33 00-0421	EA	18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	715.33		30.28
11 41 33 00-0422	EA	18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	842.45		30.76
11 41 33 00-0423	EA	18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	975.57		31.23
11 41 33 00-0424	EA	24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	723.75		30.28
11 41 33 00-0425	EA	24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	839.14		30.76
11 41 33 00-0426	EA	24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	990.35		31.23
11 41 33 00-0427	EA	24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	1,190.07		31.71
11 41 33 00-0428 74" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)					
11 41 33 00-0429	EA	18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit.....	635.83		29.80
11 41 33 00-0430	EA	18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit.....	736.43		30.28

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0431 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	866.55	30.76
11 41 33 00-0432 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	996.66	31.23
11 41 33 00-0433 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	744.85	30.28
11 41 33 00-0434 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	860.23	30.76
11 41 33 00-0435 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,011.44	31.23
11 41 33 00-0436 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,211.17	31.71
11 41 33 00-0437 86" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0438 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	656.92	29.80
11 41 33 00-0439 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	757.52	30.28
11 41 33 00-0440 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	887.64	30.76
11 41 33 00-0441 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,017.76	31.23
11 41 33 00-0442 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	765.94	30.28
11 41 33 00-0443 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	881.33	30.76
11 41 33 00-0444 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,032.54	31.23
11 41 33 00-0445 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,232.26	31.71
11 41 33 00-0446 63" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0447 EA 18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	728.67	29.80
11 41 33 00-0448 EA 18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	802.81	30.28
11 41 33 00-0449 EA 18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	901.09	30.76
11 41 33 00-0450 EA 18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	960.63	31.23
11 41 33 00-0451 EA 24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	867.20	30.28
11 41 33 00-0452 EA 24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,016.32	30.76
11 41 33 00-0453 EA 24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,125.20	31.23
11 41 33 00-0454 EA 24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,287.80	31.71
11 41 33 00-0455 74" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0456 EA 18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	749.76	29.80
11 41 33 00-0457 EA 18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	825.18	30.28
11 41 33 00-0458 EA 18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	925.19	30.76
11 41 33 00-0459 EA 18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	985.73	31.23
11 41 33 00-0460 EA 24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	888.30	30.28
11 41 33 00-0461 EA 24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,037.41	30.76
11 41 33 00-0462 EA 24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,147.48	31.23
11 41 33 00-0463 EA 24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,311.90	31.71
11 41 33 00-0464 86" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0465 EA 18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	770.86	29.80
11 41 33 00-0466 EA 18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	845.87	30.28
11 41 33 00-0467 EA 18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	945.36	30.76
11 41 33 00-0468 EA 18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,005.62	31.23
11 41 33 00-0469 EA 24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	909.39	30.28
11 41 33 00-0470 EA 24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,058.51	30.76
11 41 33 00-0471 EA 24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,167.90	31.23
11 41 33 00-0472 EA 24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,331.26	31.71
11 41 33 00-0473 Galvanized Steel Dunnage Rack (11 41 33 00-0001)		
11 41 33 00-0474 EA 18" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	155.93	21.43
11 41 33 00-0475 EA 18" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	163.73	22.02
11 41 33 00-0476 EA 18" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	172.54	22.62
11 41 33 00-0477 EA 18" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	188.34	23.22
11 41 33 00-0478 EA 18" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	202.14	23.81
11 41 33 00-0479 EA 24" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	165.93	21.43
11 41 33 00-0480 EA 24" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	179.73	22.02
11 41 33 00-0481 EA 24" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	188.54	22.62
11 41 33 00-0482 EA 24" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	203.34	23.22
11 41 33 00-0483 EA 24" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	220.14	23.81
11 41 33 00-0484 Stainless Steel Dunnage Rack (11 41 33 00-0001)		
11 41 33 00-0485 EA 18" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	380.95	22.62
11 41 33 00-0486 EA 18" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	472.07	23.22
11 41 33 00-0487 EA 18" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack	781.15	23.81
11 41 33 00-0488 EA 24" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	414.39	22.62
11 41 33 00-0489 EA 24" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	510.79	23.22
11 41 33 00-0490 EA 24" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack	849.49	23.81
11 41 33 00-0491 Mobile Racks (11 41 33 00-0001)		
11 41 33 00-0492 EA Mobile Rack With Pan Slide.....	1,382.63	36.07
11 41 33 00-0493 Can Racks (11 41 33 00-0001)		



Equipment			11
Foodservice Equipment			11 40
Foodservice Storage Equipment			11 41

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0494	EA	27-1/4" Wide x 42" Deep x 81-1/16" High, Aluminum Frame Can Rack Note: 156 #10 cans capacity	2,029.56	36.07
11 42 Food Preparation Equipment (11 40)				
11 42 13 Food Preparation Appliances (11 42)				
11 42 13 00-0001 Vertical Cutter Mixers (11 42 13)				
11 42 13 00-0002	EA	Bench Type Mixers, 25 Quart	8,195.36	218.84
11 42 13 00-0003	EA	Bench Type Mixers, 40 Quart	9,401.02	218.84
11 42 13 00-0004	EA	Bench Type Mixers, 80 Quart	11,816.51	376.40
11 42 13 00-0005	EA	Bench Type Mixers, 130 Quart	13,424.48	612.76
11 42 13 00-0006 Choppers (11 42 13)				
11 42 13 00-0007	EA	Choppers, 5 LB	2,094.31	175.07
11 42 13 00-0008	EA	Choppers, 16 LB	3,068.01	227.59
11 42 13 00-0009	EA	Choppers, 35 LB - 40 LB	5,867.55	280.12
11 42 13 00-0010	EA	Choppers, 35 LB - 40 LB/Min, 2 HP	4,856.52	248.86
11 42 13 00-0011	EA	Choppers, 35 LB - 40 LB/Min, 3 HP	5,497.72	248.86
11 42 13 00-0012 Floor Model Mixer (11 42 13)				
11 42 13 00-0013	EA	Floor Type Mixers, 20 Quart	3,897.51	131.31
11 42 13 00-0014	EA	Floor Type Mixers, 60 Quart	9,555.01	87.53
11 42 13 00-0015	EA	Floor Type Mixers, 80 Quart	15,072.94	87.53
11 42 13 00-0016	EA	Floor Type Mixers, 140 Quart	19,106.62	140.06
11 42 13 00-0017 Slicers (11 42 13)				
11 42 13 00-0018	EA	Slicer With Table	3,273.75	126.40
11 42 13 00-0019 Peelers (11 42 13)				
11 42 13 00-0020	EA	Small Peeler	2,265.39	142.24
11 42 13 00-0021	EA	Large Peeler	2,413.29	189.69
11 42 13 00-0022 Proof Boxes (11 42 13)				
11 42 13 00-0023	EA	30-1/2" x 22-1/2", Stainless Steel Proof Box	1,163.84	72.05
11 42 13 00-0024	EA	30-1/2" x 45", Stainless Steel Proof Box	1,947.77	120.74
11 42 13 00-0025	EA	30-1/2" x 45", Galvanized Proof Box	1,709.24	54.81
11 42 13 00-0026 Non-Insulated Heated Proof Cabinet (11 42 13)				
11 42 13 00-0027	EA	Angle Slide 69-3/4", Solid Door Non Insulated Heated Proof Cabinet	1,567.66	69.05
11 42 13 00-0028	EA	Angle Slide 69-3/4", Clear Door Non Insulated Heated Proof Cabinet	1,681.58	73.82
11 42 13 00-0029	EA	Channel Slide 69-3/4", Solid Door Non Insulated Heated Proof Cabinet	1,557.01	68.48
11 42 13 00-0030	EA	Channel Slide 69-3/4", Clear Door Non Insulated Heated Proof Cabinet	1,650.23	72.60
11 42 13 00-0031 Insulated Heated Proof Cabinet (11 42 13)				
11 42 13 00-0032	EA	3 Spacing, 69-3/4" High Solid Door Insulated Heated Proof Cabinet	2,528.23	103.41
11 42 13 00-0033	EA	3 Spacing 69-3/4" High Sliding Door Insulated Heated Proof Cabinet	2,642.05	108.11
11 42 13 00-0034 Pass-Thru Hot Food Holding Cabinet (11 42 13)				
11 42 13 00-0035	EA	Single Section, Full Door, Pass-Thru Hot Food Holding Cabinet	3,908.66	183.83
11 42 13 00-0036	EA	Single Section, Half Door, Pass-Thru Hot Food Holding Cabinet	4,149.62	183.83
11 42 13 00-0037	EA	Two Section, Full Door, Pass-Thru Hot Food Holding Cabinet	5,266.90	192.58
11 42 13 00-0038	EA	Two Section, Half Door, Pass-Thru Hot Food Holding Cabinet	5,759.12	192.58
11 42 16 Food Preparation Surfaces (11 42)				
11 42 16 00-0001 Tables (11 42 16)				
11 42 16 00-0002 Baker's Table (11 42 16 00-0001)				
11 42 16 00-0003	EA	4' Open Base Baker's Table	760.06	46.11
11 42 16 00-0004	EA	10' Open Base Baker's Table	1,491.74	90.40
11 42 16 00-0005	EA	10' Undershelf Baker's Table	1,840.57	111.55
11 42 16 00-0006	EA	10' Three Drawers Baker's Table	1,974.09	119.77
11 42 16 00-0007	EA	10' Bins Baker's Table	2,904.41	176.28
11 42 16 00-0008	EA	10' Bins And Drawers Baker's Table	4,560.76	276.70
11 42 16 00-0009 Preparation Table, Stainless Steel, With Undershelf (11 42 16 00-0001)				
11 42 16 00-0010	EA	30" x 72" Square Edge Stainless Steel Preparation Table With Undershelf	422.31	24.31
11 42 16 00-0011	EA	30" x 72" Marine Edge Stainless Steel Preparation Table With Undershelf	457.82	29.20

11 Equipment**11 40 Foodservice Equipment****11 42 Food Preparation Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 42 16 00-0012 EA 36" x 96" Marine Edge Stainless Steel Preparation Table With Undershelf.....	687.93	39.68
11 42 16 00-0013 Preparation Table, Stainless Steel, With Open Front (11 42 16 00-0001)		
11 42 16 00-0014 EA 30" X 72" Round Edge Stainless Steel Preparation Table With Open Front.....	444.68	25.58
11 42 16 00-0015 EA 36" X 96" Round Edge Stainless Steel Preparation Table With Open Front.....	571.55	32.90
11 42 16 00-0016 EA 36" X 96" Square Edge Stainless Steel Preparation Table With Open Front.....	490.95	28.30
11 42 16 00-0017 EA 36" X 96" Marine Edge Stainless Steel Preparation Table With Open Front.....	590.95	34.08
11 42 16 00-0018 EA Roller Utility Drawers Stainless Steel Preparation Table With Open Front	119.37	6.87
11 42 16 00-0019 Mobile Tables (11 42 16 00-0001)		
11 42 16 00-0020 EA 21-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....	1,611.31	21.78
11 42 16 00-0021 EA 32-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....	878.69	26.12
11 42 16 00-0022 EA 32-1/4" x 27-1/2" x 41" Stainless Steel Mobile Table With Stainless Steel Top	508.89	29.38
11 42 16 00-0023 Hot Food Tables, Stainless Steel, Gas Or Electric (11 42 16 00-0001)		
11 42 16 00-0024 EA 32-1/4" x 27-1/2" x 41" Stainless Steel Hot Food Tables	908.87	52.43
11 42 16 00-0025 EA 32-1/4" x 27-1/2" x 21" Stainless Steel Hot Food Tables	737.17	42.49
11 42 16 00-0026 EA Full Size Pan With Cover Stainless Steel Hot Food Tables.....	61.19	3.53
11 42 16 00-0027 EA Set Of Three 1/3 Size With Cover Stainless Steel Hot Food Tables.....	89.50	5.15
11 42 16 00-0028 EA 58-1/2", 4 Openings Stainless Steel Hot Food Tables	1,817.16	112.84
11 42 16 00-0029 EA 114-1/2", 8 Openings Stainless Steel Hot Food Tables	3,615.68	225.14
11 42 16 00-0030 Basic Table (11 42 16 00-0001)		
11 42 16 00-0031 LF Table, Basic.....	254.61	20.06
11 42 16 00-0032 Table With Sink (11 42 16)		
11 42 16 00-0033 LF Table With Sink.....	331.41	42.77
11 42 23 Food Preparation Scullery Sinks (11 42)		
11 42 23 00-0001 Stainless Steel Scullery Sinks (11 42 23)		
Note: Excludes faucet. See CSI section 22 42 39 00-0075 for service sink faucets.		
11 42 23 00-0002 EA Stainless Steel Scullery Sink, Single 30" x 24" x 12" Compartment And Drainboard.....	2,050.27	179.49
For Additional Drain Board, Add	187.08	
11 42 23 00-0003 EA Stainless Steel Scullery Sink, Double 30" x 24" x 12" Compartment And Drainboard	2,801.21	205.12
For Additional Drain Board, Add	260.89	
11 42 23 00-0004 EA Stainless Steel Scullery Sink, Triple 30" x 24" x 12" Compartment And Drainboard.....	3,647.75	205.12
For Additional Drain Board, Add	344.26	
11 42 23 00-0005 EA Stainless Steel Scullery Sink, Quad 30" x 24" x 12" Compartment And Drainboard.....	5,105.14	205.12
For Additional Drain Board, Add	490.00	
11 42 23 00-0006 EA Stainless Steel Pot Sink, Double 20" x 20" x 18" Compartment And Drainboard.....	3,315.89	205.12
11 42 23 00-0007 EA Stainless Steel Scullery Sink, Double 24" x 24" x 14" Compartment And Drainboards (Elkay WNSF8248LR)	4,269.26	205.12
For Additional Drain Board, Add	407.70	
11 44 Food Cooking Equipment (11 40)		
11 44 13 Commercial Ranges (11 44)		
11 44 13 00-0001 Range (11 44 13)		
11 44 13 00-0002 EA Heavy Duty Range, With 34" Open Top Oven	1,952.87	87.53
11 44 13 00-0003 EA Range With Fry Top.....	1,952.87	87.53
11 44 13 00-0004 EA Steel Finish Fry Top.....	4,159.09	135.52
11 44 13 00-0005 EA Stainless Top Only Fry Top	4,156.60	133.97
11 44 13 00-0006 EA Stainless Top And 2 Sides Fry Top.....	4,803.58	155.98
11 44 13 00-0007 EA Gas Range, Vulcan #260L.....	4,347.80	138.98
Note: Six 12" burners, open top sections, porcelain on steel aeration plates and grates. 24" griddle/broiler, two 26-1/4" x 22" x 14-1/2" ovens porcelain on steel liner and aluminized steel construction, nickel plated oven racks.		
11 44 16 Commercial Ovens (11 44)		
11 44 16 00-0001 Bake Oven (11 44 16)		
11 44 16 00-0002 EA Bake Oven - Single Deck.....	4,044.44	131.31
11 44 16 00-0003 EA Bake Oven - Double Deck	8,199.41	175.07
11 44 16 00-0004 EA Bake Oven - Triple Deck.....	11,905.25	175.07
11 44 16 00-0005 EA Rotary Oven, Gas, Medium	31,591.13	5,689.87
11 44 16 00-0006 Combination Ovens (11 44 16)		
Note: Convection, steam and combination modes.		
11 44 16 00-0007 EA 35.4" x 34" x 26.6" Half Size Electric Boilerless Combination Oven	12,304.62	153.19
11 44 16 00-0008 EA 35.4" x 45" x 36.8" Full Size Electric Boilerless Combination Oven	20,126.77	175.07
11 44 16 00-0009 EA 35.4" x 34" x 36.8" Half Size Electric Boilerless Combination Oven.....	16,650.69	175.07
11 44 16 00-0010 EA 35.4" x 45" x 70.4" Full Size Electric Boilerless Combination Oven	40,026.03	218.84



Equipment			11
Foodservice Equipment			11 40
Food Cooking Equipment			11 44

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 16 00-0011	EA	35.4" x 34" x 70.4 Half Size Electric Boilerless Combination Oven.....	30,428.29	218.84
11 44 16 00-0012 Electric Convection Type Oven (11 44 16)				
11 44 16 00-0013	EA	40" x 45" x 57" Convection Oven	6,302.44	148.81
11 44 16 00-0014	EA	30" x 25" x 29" Half Size Electric Convection Oven	3,668.52	153.19
11 44 16 00-0015	EA	30" x 25" x 66-3/4" Half Size Electric Convection Oven.....	7,413.71	164.13
11 44 16 00-0016	EA	40" x 41-1/2" x 56-3/4" Single Deck Electric Convection Oven.....	5,143.62	164.13
11 44 16 00-0017	EA	40" x 41-1/2" x 70" Single Deck Electric Convection Oven	9,667.00	175.07
11 44 16 00-0018 Broiler, Without Oven (11 44 16)				
11 44 16 00-0019	EA	69" x 26" x 39" Broiler Without Oven	5,389.94	140.06
11 44 16 00-0020	EA	Conveyor Broiler	4,803.29	162.55
11 44 19 Other Commercial Cooking Equipment (11 44)				
11 44 19 00-0001 Electric Griddle (11 44 19)				
11 44 19 00-0002	EA	24" Wide x 24" Deep Electric Griddle	2,233.50	120.36
11 44 19 00-0003	EA	36" Wide x 24" Deep Electric Griddle	3,136.38	120.36
11 44 19 00-0004	EA	48" Wide x 24" Deep Electric Griddle	3,584.63	131.31
11 44 19 00-0005	EA	60" Wide x 24" Deep Electric Griddle	4,268.95	131.31
11 44 19 00-0006	EA	72" Wide x 24" Deep Electric Griddle	5,450.96	142.24
11 44 19 00-0007 Fryer, With Submerger (11 44 19)				
11 44 19 00-0008	EA	Single Fryer With Submerger.....	2,973.71	140.06
11 44 19 00-0009	EA	Double Fryer With Submerger	5,983.30	175.07
11 44 19 00-0010	EA	Fryer Battery With Filter Unit (Single 42 LB Capacity)	9,041.88	227.59
11 44 19 00-0011	EA	Fryer Battery With Filter Unit (Triple 42 LB Capacity)	21,289.35	284.49
11 44 19 00-0012	EA	50 LB Capacity, 208 Volt, Electric Fryer	3,513.81	175.07
11 44 19 00-0013	EA	50 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....	5,113.49	183.83
11 44 19 00-0014	EA	50 LB Capacity, 480 Volt, Electric Fryer	3,681.49	175.07
11 44 19 00-0015	EA	50 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....	5,281.17	183.83
11 44 19 00-0016	EA	85 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....	11,499.69	227.59
11 44 19 00-0017	EA	85 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....	11,774.85	227.59
11 44 19 00-0018 Kettles, Steam Jacketed (11 44 19)				
11 44 19 00-0019	EA	5 Gallon Kettle, With Stand.....	3,065.63	111.18
11 44 19 00-0020	EA	20 Gallon Kettle With Steam Jacket	4,047.14	111.18
11 44 19 00-0021	EA	40 Gallon Kettle With Steam Jacket	7,133.26	111.18
11 44 19 00-0022	EA	60 Gallon Kettle With Steam Jacket	11,105.71	111.18
11 44 19 00-0023 Steamers, Electric (11 44 19)				
11 44 19 00-0024 Cooking Equipment/ Steamers (11 44 19 00-0023)				
11 44 19 00-0025	EA	3 Pan, Electric Countertop Convection Steamer.....	4,780.29	183.83
11 44 19 00-0026	EA	5 Pan, Electric Countertop Convection Steamer.....	6,258.17	192.58
11 44 19 00-0027	EA	3 Pan, Electric Countertop Boilerless/Connectionless Steamer.....	4,433.47	183.83
11 44 19 00-0028	EA	5 Pan, Electric Countertop Boilerless/Connectionless Steamer.....	6,407.93	192.58
11 44 19 00-0029 Braising Pans (11 44 19)				
11 44 19 00-0030	EA	24" x 24", 240 Volt, Tilting Braising Pan.....	6,416.52	193.79
11 44 19 00-0031	EA	24" x 31", 240 Volt, Tilting Braising Pan.....	6,770.79	203.79
11 44 19 00-0032	EA	24" x 41", 240 Volt, Tilting Braising Pan	7,211.42	217.02
11 44 19 00-0033	EA	24" x 24", 62,000 BTU/Hour, Tilting Braising Pan.....	8,364.72	252.71
11 44 19 00-0034	EA	24" x 31", 90,000 BTU/Hour, Tilting Braising Pan.....	8,649.24	260.50
11 44 19 00-0035	EA	24" x 41", 120,000 BTU/Hour, Tilting Braising Pan.....	8,984.05	267.39
11 44 19 00-0036 Toasters (11 44 19)				
11 44 19 00-0037	EA	Bun Toaster 3.2 KW	1,262.90	35.26
11 44 19 00-0038	EA	Bun Toaster 4.3 KW	1,378.25	38.42
11 44 19 00-0039	EA	Pop-Up Toaster, 2 Slot	453.39	94.80
11 44 19 00-0040	EA	Conveyor Toaster	772.64	142.24
11 44 19 00-0041 Microwave Ovens (11 44 19)				
11 44 19 00-0042	EA	1,000 Watt Commercial Grade Microwave Oven, Freestanding Metallic Cabinet With Dial Timer	667.67	
11 44 19 00-0043	EA	1,000 Watt Commercial Grade Microwave Oven, Freestanding Stainless Steel Cabinet With Digital Display	926.38	
11 44 19 00-0044 Ceramic Broiler On Storage Base With Doors (11 44 19)				
11 44 19 00-0045	EA	Standard Finish Ceramic Boiler On Storage Base With Doors.....	5,286.43	158.88
11 44 19 00-0046	EA	Stainless Steel Front Ceramic Boiler On Storage Base With Doors	5,286.43	158.88
11 44 19 00-0047	EA	Stainless Steel Front And Sides Ceramic Boiler On Storage Base With Doors.....	6,570.86	198.34

11 Equipment**11 40 Foodservice Equipment****11 44 Food Cooking Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 19 00-0048 Gas Countertop Hot Plate ^(11 44 19)		
11 44 19 00-0049 EA 2 Burners Gas Countertop Hot Plate	673.98	20.23
11 46 Food Dispensing Equipment ^(11 46)		
11 46 13 Bar Equipment ^(11 46)		
11 46 13 00-0001 Soft Serve Machines ^(11 46 13)		
11 46 13 00-0002 EA Soft Serve Machines, Medium	9,162.40	103.47
11 46 13 00-0003 EA Soft Serve Machines, Large	15,439.72	126.40
11 46 13 00-0004 Salad Bars ^(11 46 13)		
11 46 13 00-0005 EA 96" Refrigerated Salad Bar With Light 54" Height	7,053.10	430.82
11 46 13 00-0006 EA 96" Refrigerated Salad Bar Without Light 54" Height	6,494.55	430.82
11 46 13 00-0007 EA 96" Iced Salad Bar Without Light 54" Height	4,520.43	236.70
11 46 13 00-0008 EA 79" Iced Salad Bar Without Light 54" Height	3,580.06	194.45
11 46 13 00-0009 EA 79" Refrigerated Salad Bar Without Light 54" Height	5,431.06	285.28
11 46 13 00-0010 EA 114" Iced Salad Bar 34" Height	5,939.51	252.71
11 46 13 00-0011 EA Salad Bar Tray Fixed	1,166.65	42.80
11 46 13 00-0012 EA Salad Bar Tray Hinged	1,240.28	42.80
11 46 16 Service Line Equipment ^(11 46)		
11 46 16 00-0001 Food Warmer Holding Station ^(11 46 16)		
11 46 16 00-0002 EA Food Warmer Station And Heat Lamp	466.61	13.01
11 46 16 00-0003 Roll And Food Warmers ^(11 46 16)		
11 46 16 00-0004 EA One Drawer, 16 Roll Capacity Food Warmer	1,004.11	28.03
11 46 16 00-0005 EA Three Drawer, 36 Roll Capacity Food Warmer	2,297.88	64.19
11 46 16 00-0006 Hot Cabinets With Top Wells Electric ^(11 46 16)		
11 46 16 00-0007 EA 2 Wells, 2 Compartments Hot Cabinet With Top Wells, Electric	5,404.02	158.88
11 46 16 00-0008 EA 3 Wells, 3 Compartments Hot Cabinet With Top Wells, Electric	7,721.28	227.69
11 46 16 00-0009 Portable Hot Food Units ^(11 46 16)		
11 46 16 00-0010 EA 44-1/2", 3 Opening Portable Hot Food Unit	1,192.05	35.13
11 46 16 00-0011 EA 72-1/2", 5 Opening Portable Hot Food Unit	1,735.63	51.14
11 46 16 00-0012 Stationary Hot Food Units ^(11 46 16)		
11 46 16 00-0013 EA 44-1/2", 3 Opening Stationary Hot Food Unit	1,072.85	32.35
11 46 16 00-0014 EA 72-1/2", 5 Opening Stationary Hot Food Unit	1,583.04	47.70
11 46 16 00-0015 Serving Counters ^(11 46 16)		
11 46 16 00-0016 LF 11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Straight Section	100.98	35.71
11 46 16 00-0017 LF 11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Curved Section	129.76	54.71
11 46 16 00-0018 Drop-In Equipment ^(11 46 16)		
11 46 16 00-0019 EA Hot Food Well, Rectangular	437.27	113.80
11 46 16 00-0020 EA Hot Food Well, Circular	404.50	113.80
11 46 16 00-0021 EA Refrigerated Well, 2 Compartment	1,015.95	113.80
11 46 16 00-0022 EA Refrigerated Well, 3 Compartment	1,151.61	126.40
11 46 16 00-0023 EA Refrigerated Well, 4 Compartment	1,307.11	142.24
11 46 16 00-0024 EA Frost Cold Plate	1,579.74	126.40
11 46 16 00-0025 Beverage Dispensing ^(11 46 16)		
11 46 16 00-0026 EA Coffee Urn, Twin 3 Gallon	2,601.23	199.02
11 46 16 00-0027 EA Coffee Urn, Twin 6 Gallon	3,702.31	278.58
11 46 16 00-0028 EA Coffee Brewer, 5 Burner	1,135.13	199.02
11 46 16 00-0029 EA Hot Chocolate Dispenser	1,089.46	163.92
11 46 16 00-0030 EA Iced Tea Brewer	1,556.32	163.92
11 46 16 00-0031 EA Juice Dispenser (Concentrate)	1,160.56	252.63
11 46 16 00-0032 EA Jet Spray Dispenser	1,611.49	252.89
11 46 16 00-0033 EA Milk Dispenser, Bulk, 2 Flavor	1,329.60	142.24
11 46 16 00-0034 EA Milk Dispenser, Bulk, 3 Flavor	1,796.46	142.24



Equipment			11
Foodservice Equipment			11 40
Food Dispensing Equipment			11 46

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 46 16 00-0035			Dish Dispensers (11 46 16)		
11 46 16 00-0036	EA		Dish Dispenser, 12", Drop-in	520.04	25.75
11 46 16 00-0037	EA		Dish Dispenser, Mobile	1,613.04	30.09
11 46 16 00-0038	EA		Cup And Glass Dispenser, Drop-in	894.07	80.09
11 46 16 00-0039	EA		Disposable Cup Dispenser, Drop-in	322.74	18.04
11 46 16 00-0040			Tray And Silver Dispensers (11 46 16)		
11 46 16 00-0041	EA		Tray And Silver Dispensers Mobile	2,011.62	18.04
11 46 16 00-0042			Condiment Dispensers (11 46 16)		
11 46 16 00-0043	EA		Butter Pat Dispenser	122.08	22.59
11 46 16 00-0044	EA		Bread Dispenser, Counter Top	336.67	22.59
11 46 16 00-0045			Sandwich Rack Warmer (11 46 16)		
11 46 16 00-0046	EA		18 Compartment, 2 Tier Sandwich Rack Warmer	2,542.78	103.86
11 46 16 00-0047			Mobile Bread Counter (11 46 16)		
11 46 16 00-0048	EA		Mobile Bread And Roll Counter	5,835.37	233.49
11 46 16 00-0049			Open Service Stand (11 46 16)		
11 46 16 00-0050	EA		6' Open Service Stand	2,274.23	99.50
11 46 16 00-0051	LF		Each Additional Ft Over 6 Ft Add	311.08	13.45
11 46 16 00-0052			Mobile Serving Stand Unit (11 46 16)		
11 46 16 00-0053	EA		36" Mobile Serving Stand Unit	1,990.00	95.17
11 46 16 00-0054	EA		96" Mobile Serving Stand Unit	3,264.71	142.65
11 46 16 00-0055			Reach-In Heated Cabinets (11 46 16)		
11 46 16 00-0056	EA		Heated Cabinet, Reach-in, 1 Compartment	3,977.51	145.93
11 46 16 00-0057	EA		Heated Cabinet, Reach-in, 2 Compartment	5,723.68	183.56
11 46 16 00-0058	EA		Heated Cabinet, 1 Compartment, Pass-Through Roll-In	4,161.79	145.93
11 46 16 00-0059	EA		Heated Cabinet, Pass-Through, Roll-In 2 Compartment	5,991.51	183.56
11 46 16 00-0060			Mobile Heated Cabinets (11 46 16)		
11 46 16 00-0061	EA		Heated Cabinet, Mobile	4,431.16	45.09
11 46 19			Soda Fountain Equipment (11 46)		
11 46 19 00-0001			Carbonated Beverage Dispensing (11 46 19)		
11 46 19 00-0002	EA		Carbonated Beverage Dispenser	2,855.51	355.66
11 46 19 00-0003	EA		Carbonated Beverage Dispenser With 90 LB Ice	4,487.10	406.44
11 46 19 00-0004	EA		Carbonated Beverage Dispenser With 150 LB Ice	8,201.46	568.99
11 46 19 00-0005			Beverage Chilling Systems (11 46 19)		
11 46 19 00-0006	EA		Beverage Chiller, Small	4,296.70	341.84
11 46 19 00-0007	EA		Beverage Chiller, Large	7,922.65	512.81
11 46 83			Ice Machines (11 46)		
11 46 83 00-0001			Ice Cube Maker (11 46 83)		
11 46 83 00-0002	EA		101 LB/Day, Self Contained Ice Maker With Built-In Bin	1,827.90	153.19
11 46 83 00-0003	EA		201 LB/Day, Self Contained Ice Maker With Built-In Bin	2,158.52	164.13
11 46 83 00-0004	EA		260 LB/Day, Self Contained Ice Maker With Built-In Bin	2,467.06	175.07
11 46 83 00-0005	EA		320 LB/Day, Modular Ice Maker Without Bin	2,180.57	164.13
11 46 83 00-0006	EA		451 LB/Day, Modular Ice Maker Without Bin	2,367.21	175.07
11 46 83 00-0007	EA		600 LB/Day, Modular Ice Maker Without Bin	2,691.99	175.07
11 46 83 00-0008	EA		901 LB/Day, Modular Ice Maker Without Bin	3,802.71	186.01
11 46 83 00-0009	EA		1301 LB/Day, Modular Ice Maker Without Bin	4,297.14	186.01
11 46 83 00-0010	EA		1601 LB/Day, Modular Ice Maker Without Bin	5,160.77	196.96
11 46 83 00-0011	EA		1900 LB/Day, Modular Ice Maker Without Bin	5,686.21	196.96
11 46 83 00-0012			Ice Flakers (11 46 83)		
11 46 83 00-0013	EA		Ice Flakers, 300 LB/Day	3,546.95	557.32
11 46 83 00-0014	EA		Ice Flakers, 600 LB/Day	6,347.96	891.73
11 46 83 00-0015	EA		Ice Flakers, 1,000 LB/Day	7,933.85	1,226.12
11 46 83 00-0016	EA		Ice Flakers, 2,000 LB/Day	9,578.74	1,337.59

11 Equipment**11 40 Foodservice Equipment****11 46 Food Dispensing Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 46 83 00-0017			Ice Storage Bins ^(11 46 83)		
11 46 83 00-0018	EA		260 LB Stainless Steel Ice Storage Bin	895.65	108.25
11 46 83 00-0019	EA		360 LB Stainless Steel Ice Storage Bin	975.04	108.25
11 46 83 00-0020	EA		550 LB Stainless Steel Ice Storage Bin	1,204.78	117.26
11 46 83 00-0021	EA		660 LB Stainless Steel Ice Storage Bin	1,292.99	117.26
11 46 83 00-0022	EA		1150 LB Stainless Steel Ice Storage Bin	2,413.58	126.28
11 48			Foodservice Cleaning and Disposal Equipment ^(11 40)		
11 48 13			Commercial Dishwashers ^(11 48)		
11 48 13 00-0001			Sprays And Hoses ^(11 48 13)		
11 48 13 00-0002			Sprays, Fillers ^(11 48 13 00-0001)		
11 48 13 00-0003	EA		Pre-Rinse Spray.....	367.82	81.50
11 48 13 00-0004	EA		Kettle Fillers	326.87	81.50
11 48 13 00-0005			Hoses ^(11 48 13 00-0001)		
11 48 13 00-0006	EA		Hose Reel	441.39	97.84
11 48 13 00-0007	EA		Wash-Down Hose	359.48	97.84
11 48 13 00-0008	EA		Hose Reel And Spray System With Accessories (Chicago 535NF)	1,325.56	
11 48 13 00-0009			Rack Type Dishwasher ^(11 48 13)		
11 48 13 00-0010	EA		Dishwasher, 1 Tank And 190 Racks/Hour	7,236.94	222.87
11 48 13 00-0011	EA		Dishwasher, 2 Tanks And 234 Racks/Hour	11,994.20	312.02
11 48 13 00-0012	EA		Dishwasher, 2 Tanks And 265 Racks/Hour	14,423.08	334.30
11 48 13 00-0013	EA		Dishwasher, Automatic - 100 Meals/Hour	11,470.64	167.15
11 48 13 00-0014	EA		Dishwasher, Machine Rack	13,566.71	464.35
11 48 13 00-0015	EA		Dishwasher, Hobart LX30-H	3,661.23	195.01
11 48 13 00-0016			Exhaust Hood Dishwasher ^(11 48 13)		
11 48 13 00-0017	EA		4' x 4' x 2' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides.....	1,530.65	197.93
11 48 13 00-0018	EA		4' x 4' x 7' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides.....	2,535.16	237.51
11 48 13 00-0019			Dish Tables ^(11 48 13)		
11 48 13 00-0020	LF		Clean/Soiled Dish Table, Basic.....	197.27	42.77
11 48 13 00-0021	LF		Clean/Soiled Dish Table With Trough	307.57	64.10
11 48 13 00-0022	LF		Clean/Soiled Dish Table, Maximum	378.98	85.43
11 48 16			Food Waste Disposers ^(11 48)		
11 48 16 00-0001			Garbage Disposals ^(11 48 16)		
			Note: Manual switch.		
11 48 16 00-0002	EA		Garbage Disposal 1.5 HP At 100 GPH	2,089.91	167.15
11 48 16 00-0003	EA		Garbage Disposal 3 HP At 120 GPH	3,165.20	111.43
11 48 16 00-0004	EA		Garbage Disposal 5 HP At 250 GPH	3,765.61	222.87
11 48 16 00-0005	EA		Garbage Disposal 7-1/2 HP	5,147.96	221.53
11 48 16 00-0006			Pulper/Extractors ^(11 48 16)		
11 48 16 00-0007	EA		5 HP, Pulper/Extractor, Close-Coupled.....	4,573.26	232.11
11 50			Educational And Scientific Equipment ⁽¹¹⁾		
11 52			Audio-Visual Equipment ^(11 50)		
11 52 13			Projection Screens ^(11 52)		
11 52 13 13			Fixed Projection Screens ^(11 52 13)		
11 52 13 13-0001			Screens ^(11 52 13 13)		
11 52 13 13-0002			Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model B)		
			^(11 52 13 13-0001)		
11 52 13 13-0003	EA		40" x 40" Pull Down Projection Screen (Da-Lite B)	195.60	63.30
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0004	EA		50" x 50" Pull Down Projection Screen (Da-Lite B)	237.25	81.39
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	



Equipment			11	11
Educational And Scientific Equipment			11 50	
Audio-Visual Equipment			11 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0005	EA	60" x 60" Pull Down Projection Screen (Da-Lite B).....	315.07	113.04
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0006	EA	70" x 70" Pull Down Projection Screen (Da-Lite B).....	370.29	135.64
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0007	EA	84" x 84" Pull Down Projection Screen (Da-Lite B).....	565.93	203.46
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0008	EA	96" x 96" Pull Down Projection Screen (Da-Lite B).....	651.14	226.07
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0009	EA	64" x 84" Pull Down Projection Screen (Da-Lite B).....	448.36	144.68
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0010	EA	72" x 96" Pull Down Projection Screen (Da-Lite B).....	530.71	180.85
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0011	EA	43" x 57" Pull Down Projection Screen (Da-Lite B).....	262.72	76.86
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0012	EA	50" x 67" Pull Down Projection Screen (Da-Lite B).....	366.03	108.51
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0013	EA	55" x 77" Pull Down Projection Screen (Da-Lite B).....	403.16	122.08
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0014	EA	60" x 80" Pull Down Projection Screen (Da-Lite B).....	431.24	131.12
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0015	EA	69" x 92" Pull Down Projection Screen (Da-Lite B).....	505.49	158.25
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0016	EA	45" x 80" Pull Down Projection Screen (Da-Lite B).....	395.07	113.04
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0017	EA	52" x 92" Pull Down Projection Screen (Da-Lite B).....	451.24	131.12
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0018		Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C) (11 52 13 13-0001)		
11 52 13 13-0019	EA	50" x 50" Pull Down Projection Screen (Da-Lite C).....	377.25	81.39
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0020	EA	60" x 60" Pull Down Projection Screen (Da-Lite C).....	465.07	113.04
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0021	EA	70" x 70" Pull Down Projection Screen (Da-Lite C).....	566.45	153.72
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0022	EA	84" x 84" Pull Down Projection Screen (Da-Lite C).....	685.93	203.46
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0023	EA	6' x 8' Pull Down Projection Screen (Da-Lite C).....	734.97	207.98
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0024	EA	8' x 8' Pull Down Projection Screen (Da-Lite C).....	791.14	226.07
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	
11 52 13 13-0025	EA	7' x 9' Pull Down Projection Screen (Da-Lite C).....	801.14	226.07
		For High Contrast Matte, Add	40.00	
		For Video Spectra Fabric, Add	40.00	
		For High Power Fabric, Add	120.00	

11 Equipment**11 50 Educational And Scientific Equipment****11 52 Audio-Visual Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0026 EA 9' x 9' Pull Down Projection Screen (Da-Lite C).....	858.26	239.63
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0027 EA 8' x 10' Pull Down Projection Screen (Da-Lite C).....	915.39	253.20
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0028 EA 10' x 10' Pull Down Projection Screen (Da-Lite C).....	981.56	271.29
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0029 EA 9' x 12' Pull Down Projection Screen (Da-Lite C).....	1,061.56	271.29
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0030 EA 12' x 12' Pull Down Projection Screen (Da-Lite C).....	1,282.42	361.71
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0031 Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C With CSR) (11 52 13 13-0001)		
Note: With controlled screen return.		
11 52 13 13-0032 EA 60" x 60" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	665.07	113.04
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0033 EA 70" x 70" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	776.45	153.72
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0034 EA 84" x 84" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	895.93	203.46
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0035 EA 6' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	934.97	207.98
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0036 EA 8' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,001.14	226.07
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0037 EA 7' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,011.14	226.07
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0038 EA 9' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,068.26	239.63
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0039 EA 8' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,096.35	248.67
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0040 EA 10' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,221.56	271.29
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0041 EA 9' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,311.56	271.29
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0042 EA 12' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,552.42	361.71
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0043 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Cosmopolitan Electrol) (11 52 13 13-0001)		
Note: Heavy-duty screen for exposed installation.		
11 52 13 13-0044 EA 50" x 50" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,325.88	101.73
11 52 13 13-0045 EA 60" x 60" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,361.88	113.04
11 52 13 13-0046 EA 70" x 70" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,432.55	135.64
11 52 13 13-0047 EA 84" x 84" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,683.38	203.46
11 52 13 13-0048 EA 6' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,724.56	207.98
11 52 13 13-0049 EA 8' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,834.40	226.07
11 52 13 13-0050 EA 7' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,867.89	226.07
11 52 13 13-0051 EA 9' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,963.83	241.89
11 52 13 13-0052 EA 8' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,076.17	253.20
11 52 13 13-0053 EA 10' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,156.54	271.29



Equipment			11
Educational And Scientific Equipment			11 50
Audio-Visual Equipment			11 52

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0054	EA	9' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,216.81	271.29
11 52 13 13-0055	EA	12' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,502.14	361.71
11 52 13 13-0056		Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Professional Electrol) (11 52 13 13-0001) Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0057	EA	9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	2,241.56	271.29
11 52 13 13-0058	EA	12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	2,502.42	361.71
11 52 13 13-0059	EA	14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	3,052.85	406.93
11 52 13 13-0060	EA	12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	3,243.27	452.14
11 52 13 13-0061	EA	16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	3,524.13	542.56
11 52 13 13-0062	EA	13.5' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	3,914.56	587.78
11 52 13 13-0063	EA	18' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	4,274.99	633.00
11 52 13 13-0064	EA	15' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	4,474.99	633.00
11 52 13 13-0065	EA	20' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	4,865.84	723.42
11 52 13 13-0066	EA	11' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	4,414.56	587.78
11 52 13 13-0067	EA	16.5' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	4,785.84	723.42
11 52 13 13-0068	EA	22' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	5,066.69	813.85
11 52 13 13-0069	EA	12' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	4,704.99	633.00
11 52 13 13-0070	EA	18' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	6,066.69	813.85
11 52 13 13-0071		Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Executive Electrol) (11 52 13 13-0001) Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0072	EA	50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	1,902.46	101.73
11 52 13 13-0073	EA	60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	1,955.07	113.04
11 52 13 13-0074	EA	70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,020.29	135.64
11 52 13 13-0075	EA	84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,225.93	203.46
11 52 13 13-0076	EA	6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,254.97	207.98
11 52 13 13-0077	EA	8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,351.14	226.07
11 52 13 13-0078	EA	7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,411.14	226.07
11 52 13 13-0079	EA	9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,472.79	241.89
11 52 13 13-0080	EA	8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,545.39	253.20
11 52 13 13-0081	EA	10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,621.56	271.29
11 52 13 13-0082	EA	9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,641.56	271.29
11 52 13 13-0083	EA	12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	2,922.42	361.71
11 52 13 13-0084	EA	10.6' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	3,127.63	384.31
11 52 13 13-0085	EA	14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	3,272.85	406.93
11 52 13 13-0086	EA	12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	3,583.27	452.14
11 52 13 13-0087	EA	16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	3,814.13	542.56
11 52 13 13-0088		Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Senior Electrol) (11 52 13 13-0001) Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0089	EA	50" x 50" Electric Projection Screen (Da-Lite Senior Electrol)	1,598.46	101.73
11 52 13 13-0090	EA	60" x 60" Electric Projection Screen (Da-Lite Senior Electrol)	1,657.67	124.34
11 52 13 13-0091	EA	70" x 70" Electric Projection Screen (Da-Lite Senior Electrol)	1,689.29	135.64

11 Equipment**11 50 Educational And Scientific Equipment****11 52 Audio-Visual Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0092 EA 84" x 84" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,853.93	203.46
11 52 13 13-0093 EA 6' x 8' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,871.97	207.98
11 52 13 13-0094 EA 8' x 8' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,946.14	226.07
11 52 13 13-0095 EA 7' x 9' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,999.14	226.07
11 52 13 13-0096 EA 9' x 9' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,101.79	241.89
11 52 13 13-0097 EA 8' x 10' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,138.39	253.20
11 52 13 13-0098 EA 10' x 10' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,217.56	271.29
11 52 13 13-0099 EA 9' x 12' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,268.00	316.49
11 52 13 13-0100 EA 12' x 12' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,498.42	361.71
11 52 13 13-0101 EA 10'-6" x 14' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,041.63	384.31
11 52 13 13-0102 EA 14' x 14' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,181.85	406.93
11 52 13 13-0103 EA 12' x 16' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,457.27	452.14
11 52 13 13-0104 EA 16' x 16' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,680.13	542.56
11 52 13 13-0105 EA 13'-6" x 18' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,005.56	587.78
11 52 13 13-0106 EA 18' x 18' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,262.98	633.00
11 52 13 13-0107 EA 15' x 20' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,408.98	633.00
11 52 13 13-0108 EA 20' x 20' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,901.84	723.42
11 52 13 13-0109 EA 50" x 67" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,689.29	135.64
11 52 13 13-0110 EA 60" x 80" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,808.71	180.85
11 52 13 13-0111 EA 69" x 92" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,862.93	203.46
11 52 13 13-0112 EA 87" x 116" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,148.39	253.20
11 52 13 13-0113 EA 105" x 140" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,351.00	316.49
11 52 13 13-0114 EA 123" x 164" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,930.85	406.93
11 52 13 13-0115 EA 141" x 188" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,187.71	497.35
11 52 13 13-0116 EA 12' x 24' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	5,383.41	678.20
11 52 13 13-0117 EA 45" x 80" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,813.71	180.85
11 52 13 13-0118 EA 52" x 92" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,877.93	203.46
11 52 13 13-0119 EA 54" x 96" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,934.06	217.03
11 52 13 13-0120 EA 58" x 104" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	1,979.23	235.11
11 52 13 13-0121 EA 65" x 116" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,100.39	253.20
11 52 13 13-0122 EA 78" x 139" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,313.00	316.49
11 52 13 13-0123 EA 92" x 164" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	2,903.85	406.93
11 52 13 13-0124 EA 106" x 188" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,386.71	497.35
11 52 13 13-0125 EA 119" x 212" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,092.56	587.78
11 52 13 13-0126 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Boardroom Electrol) (11 52 13 13-0001) Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0127 EA 50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,538.03	101.73
11 52 13 13-0128 EA 60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,592.79	113.04
11 52 13 13-0129 EA 70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,662.12	135.64
11 52 13 13-0130 EA 84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,880.80	203.46
11 52 13 13-0131 EA 6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,916.63	207.98



Equipment	11	11
Educational And Scientific Equipment	11 50	
Audio-Visual Equipment	11 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0132 EA 8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,010.39	226.07
11 52 13 13-0133 EA 7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,100.13	226.07
11 52 13 13-0134 EA 9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,189.38	241.89
11 52 13 13-0135 EA 8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,254.84	253.20
11 52 13 13-0136 EA 10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,359.32	271.29
11 52 13 13-0137 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,451.74	271.29
11 52 13 13-0138 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,710.28	361.71
11 52 13 13-0139 Electric Ascending Project Screen, Matte White, Glass Beaded (Da-Lite Ascender Electrol) (11 52 13 13-0001) Note: High contrast matte white, video spectrum or high power. Includes a motorized spring assisted scissors mechanism which raises the screen surface from the housing ensuring smooth operation. A trap door housing keeps the screen and lift mechanism hidden until the screen is activated.		
11 52 13 13-0140 EA 60" x 80" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	4,831.14	226.07
11 52 13 13-0141 EA 69" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	5,201.56	271.29
11 52 13 13-0142 EA 87" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	6,152.85	406.93
11 52 13 13-0143 EA 105" x 140" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	7,784.13	542.56
11 52 13 13-0144 EA 120" x 160" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	8,664.99	633.00
11 52 13 13-0145 EA 52" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	5,111.14	226.07
11 52 13 13-0146 EA 58" x 104" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	5,611.56	271.29
11 52 13 13-0147 EA 65" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	5,972.00	316.49
11 52 13 13-0148 EA 78" x 139" Electric Ascending Projection Screen (Da-Lite Ascender Electrol) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	7,512.85	406.93
11 52 13 13-0149 Electric Rear Projection Screen (Da-Lite DA-View) (11 52 13 13-0001) Note: Consists of a single acrylic layer with rear Fensel lens and lenticulated front profile. Un-framed.		
11 52 13 13-0150 EA 60" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	2,502.28	226.07
11 52 13 13-0151 EA 67" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	3,117.29	248.67
11 52 13 13-0152 EA 72" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	3,561.36	271.29
11 52 13 13-0153 EA 84" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	6,284.64	293.89
11 52 13 13-0154 EA 90" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	6,956.64	6,640.13
11 52 13 13-0155 EA 96" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	7,730.82	361.71
11 52 13 13-0156 EA 100" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	9,872.53	406.93
11 52 13 13-0157 EA 120" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	13,267.79	452.14
11 52 13 13-0158 EA 125" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	14,839.71	497.35
11 52 13 13-0159 EA 135" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	19,773.43	542.56
11 52 13 13-0160 Screen Accessories (11 52 13 13-0001)		
11 52 13 13-0161 Manual Pull Down Accessories (11 52 13 13-0160)		
11 52 13 13-0162 EA 6" Mounting Bracket (Pair)	31.56	6.78
11 52 13 13-0163 EA 14" Wall Mounting Bracket (Pair)	41.56	7.23
11 52 13 13-0164 EA 14-1/2" To 24" Adjustable Wall Mounting Bracket (Pair)	47.56	8.14
11 52 13 13-0165 Electric Powered Screen Accessories (11 52 13 13-0160)		
11 52 13 13-0166 EA Single Motor Low Voltage Remote Control System - Infrared	261.59	
11 52 13 13-0167 EA Single Motor Low Voltage Remote Control System - Radio Frequency	371.59	
11 52 13 13-0168 Relocate Existing Fixed Projection Screen (11 52 13 13)		
11 52 13 13-0169 EA Relocate Electric Controlled Projection Screen, Including Storage And Cleaning	1,329.82	

11 Equipment**11 50 Educational And Scientific Equipment****11 52 Audio-Visual Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**11 52 13 16 Portable Projection Screens** (11 52 13)**11 52 13 16-0001 Motion Picture Screen And Case** (11 52 13 16)

11 52 13 16-0002	SF	Screen, Riser Projection With Anodized Aluminum Frame	19.15	3.26
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11 52 16 Projectors (11 52)**11 52 16 26 Video Projectors** (11 52 16)**11 52 16 26-0001 Projectors** (11 52 16 26)

11 52 16 26-0002	EA	2,000 Lumens Output, 800 x 600 Pixels, SVGA Compact 3LCD Panels Projector	711.02	45.22
11 52 16 26-0003	EA	2,000 Lumens Output, 1024 x 768 Pixels, XGA Compact 3LCD Panels Projector	819.63	45.22
11 52 16 26-0004	EA	2,000 Lumens Output, 1280 x 800 Pixels, WXGA Compact 3LCD Panels Projector	1,075.62	45.22
11 52 16 26-0005	EA	3,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	1,680.70	45.22
11 52 16 26-0006	EA	3,500 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	1,952.21	45.22
11 52 16 26-0007	EA	3,000 Lumens Output, 1366 x 800 Pixels, WXGA 3LCD Panels Projector	2,471.95	45.22
11 52 16 26-0008	EA	4,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	3,914.83	45.22
11 52 16 26-0009	EA	5,200 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	5,295.65	45.22
11 52 16 26-0010	EA	6,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	7,847.83	45.22

11 52 16 26-0011 Projector Mounts (11 52 16 26)**11 52 16 26-0012 Universal Projector Mounts** (11 52 16 26-0011)

Note: Includes ceiling or wall mounting hardware and hardware for attaching projector. Excludes projector.

11 52 16 26-0013	EA	Flush Ceiling, Universal Projector Mount (Peerless PPF)	179.87	49.72
11 52 16 26-0014	EA	Wall Arm, Universal Projector Mount (Peerless PWA-14)	276.18	49.72

11 52 16 26-0015 Projector Mount Components (11 52 16 26-0011)

Note: Complete projector mount system will include ceiling attachment plate, threaded extension column and projector attachment plate. Excludes projector.

11 52 16 26-0016 Ceiling Attachment Plates For Projector Mounts (11 52 16 26-0015)

11 52 16 26-0017	EA	Finished Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 570)	68.10	22.59
11 52 16 26-0018	EA	Truss Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 557)	87.87	22.59
11 52 16 26-0019	EA	I-Beam Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 558/559)	117.12	22.59
11 52 16 26-0020	EA	Suspended Ceiling, Attachment Plate For Projector Mounts (Peerless CMJ 455)	147.39	22.59

11 52 16 26-0021 Projector Attachment Plates For Projector Mounts (11 52 16 26-0015)

11 52 16 26-0022	EA	Universal Projector Attachment Plate For Projector Mounts (Peerless PRG-UNV)	203.66	22.59
11 52 16 26-0023	EA	High Security Projector Enclosure For Projector Mounts (Peerless ALB)	434.07	22.59

11 52 16 26-0024 Threaded Extension Columns For Projector Mounts (11 52 16 26-0015)**11 52 16 26-0025 Fixed Length, Threaded Extension Column For Projector Mounts** (11 52 16 26-0024)

Note: Peerless EXT series.

11 52 16 26-0026	EA	6" Fixed Length, Threaded Extension Column For Projector Mounts	36.72	6.78
11 52 16 26-0027	EA	12" Fixed Length, Threaded Extension Column For Projector Mounts	46.47	6.78
11 52 16 26-0028	EA	18" Fixed Length, Threaded Extension Column For Projector Mounts	50.13	6.78
11 52 16 26-0029	EA	24" Fixed Length, Threaded Extension Column For Projector Mounts	52.57	6.78
11 52 16 26-0030	EA	36" Fixed Length, Threaded Extension Column For Projector Mounts	63.18	9.04
11 52 16 26-0031	EA	48" Fixed Length, Threaded Extension Column For Projector Mounts	75.37	9.04
11 52 16 26-0032	EA	60" Fixed Length, Threaded Extension Column For Projector Mounts	94.88	9.04
11 52 16 26-0033	EA	72" Fixed Length, Threaded Extension Column For Projector Mounts	108.29	9.04
11 52 16 26-0034	EA	84" Fixed Length, Threaded Extension Column For Projector Mounts	127.43	11.30
11 52 16 26-0035	EA	96" Fixed Length, Threaded Extension Column For Projector Mounts	144.49	11.30
11 52 16 26-0036	EA	108" Fixed Length, Threaded Extension Column For Projector Mounts	161.21	13.56
11 52 16 26-0037	EA	120" Fixed Length, Threaded Extension Column For Projector Mounts	168.53	13.56

11 52 16 26-0038 Adjustable Length, Threaded Extension Columns For Projector Mounts (11 52 16 26-0024)

Note: Peerless ADJ series. Adjustable at 1" increments.

11 52 16 26-0039	EA	6" To 9" Adjustable Length, Threaded Extension Column For Projector Mounts	73.79	11.30
11 52 16 26-0040	EA	12" To 18" Adjustable Length, Threaded Extension Column For Projector Mounts	110.36	11.30
11 52 16 26-0041	EA	18" To 24" Adjustable Length, Threaded Extension Column For Projector Mounts	112.80	11.30
11 52 16 26-0042	EA	24" To 36" Adjustable Length, Threaded Extension Column For Projector Mounts	116.45	11.30
11 52 16 26-0043	EA	36" To 60" Adjustable Length, Threaded Extension Column For Projector Mounts	127.08	13.56
11 52 16 26-0044	EA	48" To 72" Adjustable Length, Threaded Extension Column For Projector Mounts	133.17	13.56
11 52 16 26-0045	EA	60" To 84" Adjustable Length, Threaded Extension Column For Projector Mounts	146.58	13.56
11 52 16 26-0046	EA	72" To 96" Adjustable Length, Threaded Extension Column For Projector Mounts	158.77	13.56
11 52 16 26-0047	EA	84" To 108" Adjustable Length, Threaded Extension Column For Projector Mounts	176.70	15.82
11 52 16 26-0048	EA	96" To 120" Adjustable Length, Threaded Extension Column For Projector Mounts	188.89	15.82
11 52 16 26-0049	EA	108" To 132" Adjustable Length, Threaded Extension Column For Projector Mounts	206.82	18.08
11 52 16 26-0050	EA	120" To 144" Adjustable Length, Threaded Extension Column For Projector Mounts	215.36	18.08

11 53 Laboratory Equipment (11 50)



		Equipment	11	11
		Educational And Scientific Equipment	11 50	
		Laboratory Equipment	11 53	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 53 43 Service Fittings And Accessories (11 53)				
11 53 43 00-0001 Outlet And Valves (11 53 43)				
11 53 43 00-0002	EA	Medical Outlet Conversion Kit (Air, Oxygen, And Vacuum)	681.07	
11 53 43 00-0003 Test And Certify (11 53 43)				
11 53 43 00-0004	EA	Test And Certify Medical Gas Port.....	55.73	
11 70 Healthcare Equipment (11)				
11 73 Patient Care Equipment (11 70)				
11 73 23 Patient Lift (11 73)				
11 73 23 00-0001 Ceiling Patient Lift (11 73 23)				
11 73 23 00-0002	EA	Maxi Sky 600 Fixed 4 Function Ceiling Patient Lift..... Note: Maxi Sky 600 cassette with 600 pound weight capacity. Includes 2 point hanger bar, hardware (x-y 3 meter x 4.5 meter 8 anchors xy 4.5), powered raise and lower as well as powered traverse on track. Maxi sky supports clinically activated return to charge, programmable automatic return.	7,034.26	
11 80 Facility Maintenance and Operation Equipment (11)				
11 81 Maintenance Equipment (11 80)				
11 81 29 Facility Fall Protection (11 81)				
11 81 29 00-0001 Safety And Tie-Back Anchors (11 81 29)				
Note: One cut sheet charge required per manufacturer order. Excludes flashing and testing by engineer after installation. See CSI section 01 22 20 00-0062 for engineering testing and inspection.				
11 81 29 00-0002 Roof Mounted, Safety And Tie-Back Anchors (11 81 29 00-0001)				
Note: Includes up to 10" high, 0.216" thick hollow structural section tube, 1018 steel forged pad eye, 8" x 8" x 1/2" base plate and hot-dipped galvanized finish.				
11 81 29 00-0003	EA	Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	413.82	67.82
Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.				
For Stainless Steel Pad Eye, Add			40.00	
For Foam Insulation Filled HSS Tube, Add			10.00	
11 81 29 00-0004	EA	Epoxy Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	356.63	67.82
Note: Includes drilling in concrete and adhesive anchor systems.				
For Stainless Steel Pad Eye, Add			40.00	
For Foam Insulation Filled HSS Tube, Add			10.00	
11 81 29 00-0005	EA	Welded In Place, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	298.47	66.95
For Stainless Steel Pad Eye, Add			40.00	
For Foam Insulation Filled HSS Tube, Add			10.00	
11 81 29 00-0006 Wall Mounted, Safety And Tie-Back Anchor (11 81 29 00-0001)				
Note: Includes 1018 steel forged pad eye, 10" x 4" x 1/2" base plate and hot-dipped galvanized finish.				
11 81 29 00-0007	EA	Mechanically Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	326.54	67.82
Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.				
For Stainless Steel Pad Eye, Add			40.00	
11 81 29 00-0008	EA	Epoxy Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor)	298.61	67.82
Note: Includes drilling in concrete and adhesive anchor systems.				
For Stainless Steel Pad Eye, Add			40.00	
11 81 29 00-0009	EA	Welded In Place, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor)	267.99	66.95
For Stainless Steel Pad Eye, Add			40.00	
11 81 29 00-0010 Safety And Tie-Back Anchor Accessories (11 81 29 00-0001)				
11 81 29 00-0011	EA	Mandatory Cut Sheets For Safety And Tie-Back Anchors (Summit Anchor)	221.64	
Note: One cut sheet required per order.				
11 82 Facility Solid Waste Handling Equipment (11 80)				
11 82 19 Packaged Incinerators (11 82)				
11 82 19 00-0001 Electric Incinerator (11 82 19)				
11 82 19 00-0002	EA	Electric Package Incinerator, 100 LB/Hour	21,356.10	871.63
11 82 19 00-0003	EA	Electric Package Incinerator, 400 LB/Hour	43,668.82	1,743.25
11 82 19 00-0004	EA	Electric Package Incinerator, 1,000 LB/Hour	145,327.09	2,614.88
11 82 26 Facility Waste Compactors (11 82)				
11 82 26 00-0001 Waste Compactors (11 82 26)				
11 82 26 00-0002 110 Volt Compactors (11 82 26 00-0001)				
11 82 26 00-0003	EA	Waste Compactor, 110 Volt At 75 LB/Hour.....	11,572.69	423.93
11 82 26 00-0004	EA	Waste Compactor, 110 Volt At 250 LB/Hour.....	14,777.60	1,017.43

11 Equipment**11 80 Facility Maintenance and Operation Equipment****11 82 Facility Solid Waste Handling Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 82 26 00-0005		230 Volt Compactors ^(11 82 26 00-0001)		
11 82 26 00-0006	EA	Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	14,956.29	1,356.58
11 82 26 00-0007	EA	Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	17,020.42	1,780.50
11 82 26 00-0008		Trash Compactors ^(11 82 26)		
11 82 26 00-0009	EA	Trash Compactor, Small	2,698.18	264.63
11 82 26 00-0010	EA	Trash Compactor, Large	3,313.69	299.46
11 90		Other Equipment ⁽¹¹⁾		
11 98		Detention Equipment ^(11 90)		
11 98 12		Detention Doors and Frames ^(11 98)		
11 98 12 00-0001		Metal Frames ^(11 98 12)		
		Note: Combination buck, jamb, and trim, fully seam welded.		
11 98 12 00-0002		Metal Frames 4-3/4" Depth x 7 Gauge x 1-3/4" ^(11 98 12 00-0001)		
11 98 12 00-0003	EA	2' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	387.48	141.25
11 98 12 00-0004	EA	2'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	387.48	141.25
11 98 12 00-0005	EA	2'-6" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	387.48	141.25
11 98 12 00-0006	EA	2'-8" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	387.48	141.25
11 98 12 00-0007	EA	3' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	389.53	141.25
11 98 12 00-0008	EA	3'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	389.53	141.25
11 98 12 00-0009	EA	6' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	579.66	226.07
11 98 12 00-0010	EA	2' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0011	EA	2'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0012	EA	2'-6" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0013	EA	2'-8" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.82	141.25
11 98 12 00-0014	EA	3' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	494.02	188.36
11 98 12 00-0015	EA	3'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	494.02	188.36
11 98 12 00-0016	EA	6' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	592.00	226.07
11 98 12 00-0017	EA	2' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0018	EA	2'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0019	EA	2'-6" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0020	EA	2'-8" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.65	141.25
11 98 12 00-0021	EA	3' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	395.70	141.25
11 98 12 00-0022	EA	3'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	395.70	141.25
11 98 12 00-0023	EA	6' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	585.83	226.07
11 98 12 00-0024		Metal Frames 6-3/4" Depth x 7 Gauge x 1-3/4" ^(11 98 12 00-0001)		
11 98 12 00-0025	EA	2' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.64	141.25
11 98 12 00-0026	EA	2'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.64	141.25
11 98 12 00-0027	EA	2'-6" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.64	141.25
11 98 12 00-0028	EA	2'-8" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.64	141.25
11 98 12 00-0029	EA	3' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	397.76	141.25
11 98 12 00-0030	EA	3'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	397.76	141.25
11 98 12 00-0031	EA	6' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	585.83	226.07
11 98 12 00-0032	EA	2' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.64	141.25
11 98 12 00-0033	EA	2'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	393.64	141.25
11 98 12 00-0034	EA	2'-6" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.81	141.25
11 98 12 00-0035	EA	2'-8" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.81	141.25
11 98 12 00-0036	EA	3' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	494.01	188.36
11 98 12 00-0037	EA	3'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	494.01	188.36
11 98 12 00-0038	EA	6' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	686.40	251.03
11 98 12 00-0039	EA	2' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.81	141.25
11 98 12 00-0040	EA	2'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.81	141.25
11 98 12 00-0041	EA	2'-6" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.81	141.25
11 98 12 00-0042	EA	2'-8" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	399.81	141.25
11 98 12 00-0043	EA	3' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	401.87	141.25
11 98 12 00-0044	EA	3'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	401.87	141.25
11 98 12 00-0045	EA	6' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Door	592.00	226.07
11 98 12 00-0046		Metal Doors ^(11 98 12)		
		Note: Flush type reinforced with stiffeners.		
11 98 12 00-0047		10 Gauge 1-3/4" Door ^(11 98 12 00-0046)		
11 98 12 00-0048	EA	2' x 6'-8" x 1-3/4" 10 Gauge Metal Door	474.52	50.19
11 98 12 00-0049	EA	2'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Door	479.87	50.19
11 98 12 00-0050	EA	2'-6" x 6'-8" x 1-3/4" 10 Gauge Metal Door	485.21	50.19
11 98 12 00-0051	EA	2'-8" x 6'-8" x 1-3/4" 10 Gauge Metal Door	490.56	50.19
11 98 12 00-0052	EA	3' x 6'-8" x 1-3/4" 10 Gauge Metal Door	495.90	50.19
11 98 12 00-0053	EA	3'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Door	522.62	50.19
11 98 12 00-0054	EA	Pair 3' x 6'-8" x 1-3/4" 10 Gauge Metal Door	971.71	90.43
11 98 12 00-0055	EA	2' x 7' x 1-3/4" 10 Gauge Metal Door	507.76	50.19



Equipment		11	11
Other Equipment		11 90	
Detention Equipment		11 98	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 98 12 00-0056 EA 2'-4" x 7' x 1-3/4" 10 Gauge Metal Door	513.32	50.19
11 98 12 00-0057 EA 2'-6" x 7' x 1-3/4" 10 Gauge Metal Door	516.81	50.19
11 98 12 00-0058 EA 2'-8" x 7' x 1-3/4" 10 Gauge Metal Door	565.47	50.19
11 98 12 00-0059 EA 3' x 7' x 1-3/4" 10 Gauge Metal Door	682.93	50.19
11 98 12 00-0060 EA 3'-4" x 7' x 1-3/4" 10 Gauge Metal Door	743.35	50.19
11 98 12 00-0061 EA Pair 3' x 7' x 1-3/4" 10 Gauge Metal Door	1,087.74	90.43
11 98 12 00-0062 EA 2' x 7'-2" x 1-3/4" 10 Gauge Metal Door	493.23	50.19
11 98 12 00-0063 EA 2'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Door	498.57	50.19
11 98 12 00-0064 EA 2'-6" x 7'-2" x 1-3/4" 10 Gauge Metal Door	503.92	50.19
11 98 12 00-0065 EA 2'-8" x 7'-2" x 1-3/4" 10 Gauge Metal Door	509.26	50.19
11 98 12 00-0066 EA 3' x 7'-2" x 1-3/4" 10 Gauge Metal Door	514.60	50.19
11 98 12 00-0067 EA 3'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Door	541.32	50.19
11 98 12 00-0068 EA Pair 3' x 7'-2" x 1-3/4" 10 Gauge Metal Door	1,009.12	90.43
11 98 12 00-0069 Pneumatic Door Operators (11 98 12)		
11 98 12 00-0070 EA Pneumatic Cell Entry Door Operator With Hardware Set	3,695.03	
11 98 12 00-0071 EA Pneumatic Special Housing Cell Door Operator With Hardware Set	4,067.41	
11 98 12 00-0072 EA Pneumatic MS Cell Door Operator With Hardware Set	5,193.93	
11 98 12 00-0073 EA Pneumatic Sally Port Door Operator With Hardware Set	6,092.67	
11 98 12 00-0074 EA Pneumatic Corridor Door Operator With Hardware Set	7,588.89	
11 98 12 00-0075 EA Emergency Release Cabinet With Seven Gallon Storage Tank, Check Valve, Pressure Gauge, Three Way Valves And Four Release Valves	3,758.25	
11 98 12 00-0076 Prison Doors And Frame Assembly (11 98 12)		
11 98 12 00-0077 EA 2'-6" x 6'-8", 7 Gauge Flat Door With 7 Gauge Reinforcement Plate, Prison Security Doors And Frames	7,584.98	368.39
Note: Complete, with hardware, single plate.		
For 5" x 15-1/2" Opening Food Pass Assembly, Add		
	105.00	
11 98 12 00-0078 EA 2'-6" x 6'-8", 7 Gauge Flat Door With Double 7 Gauge Reinforcement Plate, Prison Security Doors And Frames	9,191.59	366.02
Note: Complete, with hardware, double plate.		
For 5" x 15-1/2" Opening Food Pass Assembly, Add		
	105.00	

END OF SECTION 11

11	11	Equipment
	11 90	Other Equipment
	11 98	Detention Equipment



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Special Construction		13
Special Purpose Rooms		13 20
Controlled Environment Rooms		13 21

13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 20 Special Purpose Rooms ⁽¹³⁾

13 21 Controlled Environment Rooms ^(13 20)

13 21 26 Cold Storage Rooms ^(13 21)

See CSI section 11 41 23 00-0000 for refrigerated controlled environment rooms.

13 30 Special Structures ⁽¹³⁾

13 34 Fabricated Engineered Structures ^(13 30)

13 34 19 Metal Building Systems ^(13 34)

Note: Includes material, delivery to site, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site.

13 34 19 00-0001 Pre-Engineered Metal Buildings ^(13 34 19)

Note: Free standing base buildings have a live load of 12 PSF and a wind load of 16.4 PSF (80 MPH). Includes anchoring and fasteners to concrete foundation. Includes design for foundation footings and piers. Includes a prime coated structural frame, painted steel wall panels 26 gauge, standing seam roof panels 26 gauge, roof 1 in 12 slope. Includes material, delivery to site, lifting equipment (crane) for erection, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site. Eave height is measured from the top of slab to the underside of the roof deck. Excludes foundations and slab.

13 34 19 00-0002 Clear Span Rigid Frame Pre-Engineered Metal Buildings ^(13 34 19 00-0002)

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0003 20' To 30' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings ^(13 34 19 00-0003)

13 34 19 00-0004	GSF 10' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	24.01	5.99
	For 30' To 49' In Length Only, Add	2.89	
	For 50' To 69' In Length Only, Add	1.58	
	For 70' To 99' In Length Only, Add	0.65	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.72	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.20	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.80	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.34	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.88	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.56	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.76	
	For Each SF Of 24 Gauge Wall Panel, Add	0.72	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.76	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0005	GSF 12' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	25.55	6.58
	For 30' To 49' In Length Only, Add	2.97	
	For 50' To 69' In Length Only, Add	1.62	
	For 70' To 99' In Length Only, Add	0.67	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.77	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.28	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.92	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.49	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.07	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.85	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.13	
	For Each SF Of 24 Gauge Wall Panel, Add	0.76	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.82	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0006	GSF 14' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	27.25	7.27
	For 30' To 49' In Length Only, Add	3.06	
	For 50' To 69' In Length Only, Add	1.67	
	For 70' To 99' In Length Only, Add	0.69	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.82	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.36	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.04	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.66	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.27	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.18	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.54	
	For Each SF Of 24 Gauge Wall Panel, Add	0.81	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.90	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0007 GSF 16' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	29.21	7.94
For 30' To 49' In Length Only, Add	3.20	
For 50' To 69' In Length Only, Add	1.75	
For 70' To 99' In Length Only, Add	0.72	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.88	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.46	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.19	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.85	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.51	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.55	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.01	
For Each SF Of 24 Gauge Wall Panel, Add	0.86	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.97	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0008 GSF 18' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	31.26	8.62
For 30' To 49' In Length Only, Add	3.36	
For 50' To 69' In Length Only, Add	1.84	
For 70' To 99' In Length Only, Add	0.76	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.94	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.56	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.34	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.05	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.75	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.94	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.50	
For Each SF Of 24 Gauge Wall Panel, Add	0.92	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.05	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0009 GSF 20' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	33.21	9.26
For 30' To 49' In Length Only, Add	3.53	
For 50' To 69' In Length Only, Add	1.93	
For 70' To 99' In Length Only, Add	0.79	
For >1 In 12 Slope To 3 In 12 Slope, Add	1.00	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.66	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.49	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.24	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.99	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.31	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.97	
For Each SF Of 24 Gauge Wall Panel, Add	0.98	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.12	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0010 GSF 24' Eave Height, 20' To 30' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	37.13	10.62
For 30' To 49' In Length Only, Add	3.84	
For 50' To 69' In Length Only, Add	2.09	
For 70' To 99' In Length Only, Add	0.86	
For >1 In 12 Slope To 3 In 12 Slope, Add	1.11	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.86	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.78	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.62	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.46	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	7.05	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.91	
For Each SF Of 24 Gauge Wall Panel, Add	1.09	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.26	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0011 >30' To 50' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings (13 34 19 00-0002)		
13 34 19 00-0012 GSF 10' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	20.76	4.77
For 30' To 49' In Length Only, Add	2.70	
For 50' To 69' In Length Only, Add	1.47	
For 70' To 99' In Length Only, Add	0.61	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.04	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.56	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.02	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.49	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.94	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.98	
For Each SF Of 24 Gauge Wall Panel, Add	0.63	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.62	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction			13
Special Structures			13 30
Fabricated Engineered Structures			13 34

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0013	GSF	12' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	22.01	5.20	
		For 30' To 49' In Length Only, Add	2.78		
		For 50' To 69' In Length Only, Add	1.52		
		For 70' To 99' In Length Only, Add	0.62		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.66		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.10		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.65		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.15		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.64		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.18		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.28		
		For Each SF Of 24 Gauge Wall Panel, Add	0.67		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.67		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0014	GSF	14' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	23.07	5.63	
		For 30' To 49' In Length Only, Add	2.83		
		For 50' To 69' In Length Only, Add	1.55		
		For 70' To 99' In Length Only, Add	0.64		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.69		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.15		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.73		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.25		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.77		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.38		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.54		
		For Each SF Of 24 Gauge Wall Panel, Add	0.69		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.72		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0015	GSF	16' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	24.68	6.12	
		For 30' To 49' In Length Only, Add	2.98		
		For 50' To 69' In Length Only, Add	1.63		
		For 70' To 99' In Length Only, Add	0.67		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.74		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.23		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.85		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.41		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.96		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.69		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.92		
		For Each SF Of 24 Gauge Wall Panel, Add	0.74		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.77		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0016	GSF	18' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	26.80	6.58	
		For 30' To 49' In Length Only, Add	3.27		
		For 50' To 69' In Length Only, Add	1.79		
		For 70' To 99' In Length Only, Add	0.74		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.80		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.34		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.01		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.61		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.22		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.09		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.43		
		For Each SF Of 24 Gauge Wall Panel, Add	0.81		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.82		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0017	GSF	20' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	28.65	7.03	
		For 30' To 49' In Length Only, Add	3.48		
		For 50' To 69' In Length Only, Add	1.90		
		For 70' To 99' In Length Only, Add	0.78		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.86		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.43		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.15		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.79		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.44		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.44		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.88		
		For Each SF Of 24 Gauge Wall Panel, Add	0.86		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.88		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0018	GSF		24' Eave Height, >30' To 50' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	31.19	7.94
			For 30' To 49' In Length Only, Add	3.67	
			For 50' To 69' In Length Only, Add	2.01	
			For 70' To 99' In Length Only, Add	0.83	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.94	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.56	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.34	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.04	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.74	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.93	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.49	
			For Each SF Of 24 Gauge Wall Panel, Add	0.93	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.97	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0019			>50' To 100' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings		
			(13 34 19 00-0002)		
13 34 19 00-0020	GSF		10' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	15.73	2.95
			For 30' To 49' In Length Only, Add	2.36	
			For 50' To 69' In Length Only, Add	1.29	
			For 70' To 99' In Length Only, Add	0.53	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.47	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.79	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.18	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.53	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.89	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.99	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.78	
			For Each SF Of 24 Gauge Wall Panel, Add	0.49	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.42	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0021	GSF		12' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	16.39	3.13
			For 30' To 49' In Length Only, Add	2.43	
			For 50' To 69' In Length Only, Add	1.33	
			For 70' To 99' In Length Only, Add	0.55	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.49	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.82	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.23	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.60	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.97	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.11	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.93	
			For Each SF Of 24 Gauge Wall Panel, Add	0.51	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.44	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0022	GSF		14' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	17.05	3.31
			For 30' To 49' In Length Only, Add	2.50	
			For 50' To 69' In Length Only, Add	1.37	
			For 70' To 99' In Length Only, Add	0.56	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.51	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.85	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.28	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.66	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.05	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.24	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.09	
			For Each SF Of 24 Gauge Wall Panel, Add	0.53	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.46	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0023	GSF		16' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	18.01	3.50
			For 30' To 49' In Length Only, Add	2.64	
			For 50' To 69' In Length Only, Add	1.44	
			For 70' To 99' In Length Only, Add	0.60	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.90	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.35	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.76	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.16	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.42	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.32	
			For Each SF Of 24 Gauge Wall Panel, Add	0.56	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.48	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction		13
Special Structures		13 30
Fabricated Engineered Structures		13 34

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0024	GSF	18' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding		18.76	3.67
		For 30' To 49' In Length Only, Add	.....	2.74	
		For 50' To 69' In Length Only, Add	.....	1.49	
		For 70' To 99' In Length Only, Add	.....	0.62	
		For >1 In 12 Slope To 3 In 12 Slope, Add	.....	0.56	
		For >3 In 12 Slope To 5 In 12 Slope, Add	.....	0.94	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	.....	1.41	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	.....	1.83	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	2.25	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	3.56	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	.....	4.50	
		For Each SF Of 24 Gauge Wall Panel, Add	.....	0.58	
		For Each SF Of Lap Roof, Deduct	.....	-0.76	
		For Each SF Of Hip Roof, Add	.....	0.50	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	.....	-1.97	
13 34 19 00-0025	GSF	20' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	.....	19.44	3.86
		For 30' To 49' In Length Only, Add	.....	2.81	
		For 50' To 69' In Length Only, Add	.....	1.54	
		For 70' To 99' In Length Only, Add	.....	0.63	
		For >1 In 12 Slope To 3 In 12 Slope, Add	.....	0.58	
		For >3 In 12 Slope To 5 In 12 Slope, Add	.....	0.97	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	.....	1.46	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	.....	1.90	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	2.33	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	3.69	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	.....	4.67	
		For Each SF Of 24 Gauge Wall Panel, Add	.....	0.60	
		For Each SF Of Lap Roof, Deduct	.....	-0.76	
		For Each SF Of Hip Roof, Add	.....	0.52	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	.....	-1.97	
13 34 19 00-0026	GSF	24' Eave Height, >50' To 100' Wide, Up To 30' Long Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	.....	21.27	4.22
		For 30' To 49' In Length Only, Add	.....	3.08	
		For 50' To 69' In Length Only, Add	.....	1.68	
		For 70' To 99' In Length Only, Add	.....	0.69	
		For >1 In 12 Slope To 3 In 12 Slope, Add	.....	0.64	
		For >3 In 12 Slope To 5 In 12 Slope, Add	.....	1.06	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	.....	1.60	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	.....	2.07	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	2.55	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	4.04	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	.....	5.10	
		For Each SF Of 24 Gauge Wall Panel, Add	.....	0.66	
		For Each SF Of Lap Roof, Deduct	.....	-0.76	
		For Each SF Of Hip Roof, Add	.....	0.56	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	.....	-1.97	
13 34 19 00-0027	Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)				
	Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.				
13 34 19 00-0028	Up To 30' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)				
13 34 19 00-0029	GSF	10' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	.....	21.12	4.77
		For 30' To 49' In Length Only, Add	.....	2.78	
		For 50' To 69' In Length Only, Add	.....	1.52	
		For 70' To 99' In Length Only, Add	.....	0.63	
		For >1 In 12 Slope To 3 In 12 Slope, Add	.....	0.63	
		For >3 In 12 Slope To 5 In 12 Slope, Add	.....	1.06	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	.....	1.58	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	.....	2.06	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	2.53	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	4.01	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	.....	5.07	
		For Each SF Of 24 Gauge Wall Panel, Add	.....	0.64	
		For Each SF Of Lap Roof, Deduct	.....	-0.76	
		For Each SF Of Hip Roof, Add	.....	0.62	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	.....	-1.97	
13 34 19 00-0030	GSF	12' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	.....	22.63	5.20
		For 30' To 49' In Length Only, Add	.....	2.94	
		For 50' To 69' In Length Only, Add	.....	1.60	
		For 70' To 99' In Length Only, Add	.....	0.66	
		For >1 In 12 Slope To 3 In 12 Slope, Add	.....	0.68	
		For >3 In 12 Slope To 5 In 12 Slope, Add	.....	1.13	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	.....	1.70	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	.....	2.21	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	2.72	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	.....	4.30	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	.....	5.43	
		For Each SF Of 24 Gauge Wall Panel, Add	.....	0.69	
		For Each SF Of Lap Roof, Deduct	.....	-0.76	
		For Each SF Of Hip Roof, Add	.....	0.67	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	.....	-1.97	

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0031	GSF		14' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	24.11	5.63
			For 30' To 49' In Length Only, Add	3.08	
			For 50' To 69' In Length Only, Add	1.68	
			For 70' To 99' In Length Only, Add	0.69	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.72	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.21	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.81	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.35	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.89	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.58	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.79	
			For Each SF Of 24 Gauge Wall Panel, Add	0.73	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.72	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0032	GSF		16' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	26.07	6.12
			For 30' To 49' In Length Only, Add	3.31	
			For 50' To 69' In Length Only, Add	1.81	
			For 70' To 99' In Length Only, Add	0.75	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.78	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.30	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.96	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.54	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.13	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.95	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.26	
			For Each SF Of 24 Gauge Wall Panel, Add	0.79	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.77	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0033	GSF		18' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	27.74	6.61
			For 30' To 49' In Length Only, Add	3.49	
			For 50' To 69' In Length Only, Add	1.90	
			For 70' To 99' In Length Only, Add	0.79	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.83	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.39	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.08	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.70	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.33	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.27	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.66	
			For Each SF Of 24 Gauge Wall Panel, Add	0.84	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.83	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0034	GSF		20' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	29.42	7.08
			For 30' To 49' In Length Only, Add	3.66	
			For 50' To 69' In Length Only, Add	2.00	
			For 70' To 99' In Length Only, Add	0.82	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.88	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.47	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.21	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.87	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.53	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.59	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.06	
			For Each SF Of 24 Gauge Wall Panel, Add	0.89	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.88	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0035	GSF		24' Eave Height, Up To 30' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	32.87	8.08
			For 30' To 49' In Length Only, Add	4.01	
			For 50' To 69' In Length Only, Add	2.19	
			For 70' To 99' In Length Only, Add	0.90	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.99	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.64	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.47	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.20	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.94	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.25	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.89	
			For Each SF Of 24 Gauge Wall Panel, Add	0.99	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.99	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0036 >30' To 40' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)



Special Construction			13
Special Structures			13 30
Fabricated Engineered Structures			13 34

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0037	GSF	10' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	19.09	4.22	
		For 30' To 49' In Length Only, Add	2.56		
		For 50' To 69' In Length Only, Add	1.40		
		For 70' To 99' In Length Only, Add	0.58		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.57		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.95		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.43		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.86		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.29		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.63		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.58		
		For Each SF Of 24 Gauge Wall Panel, Add	0.58		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.56		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0038	GSF	12' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	20.30	4.61	
		For 30' To 49' In Length Only, Add	2.66		
		For 50' To 69' In Length Only, Add	1.45		
		For 70' To 99' In Length Only, Add	0.60		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.61		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.02		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.52		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.98		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.44		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.86		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.87		
		For Each SF Of 24 Gauge Wall Panel, Add	0.62		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.61		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0039	GSF	14' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	21.50	4.99	
		For 30' To 49' In Length Only, Add	2.76		
		For 50' To 69' In Length Only, Add	1.51		
		For 70' To 99' In Length Only, Add	0.62		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.65		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.08		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.61		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.10		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.58		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.09		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.16		
		For Each SF Of 24 Gauge Wall Panel, Add	0.65		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.65		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0040	GSF	16' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	22.84	5.35	
		For 30' To 49' In Length Only, Add	2.91		
		For 50' To 69' In Length Only, Add	1.59		
		For 70' To 99' In Length Only, Add	0.66		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.69		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.14		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.71		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.23		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.74		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.34		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.48		
		For Each SF Of 24 Gauge Wall Panel, Add	0.69		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.69		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0041	GSF	18' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	24.19	5.74	
		For 30' To 49' In Length Only, Add	3.05		
		For 50' To 69' In Length Only, Add	1.66		
		For 70' To 99' In Length Only, Add	0.69		
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.73		
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.21		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.81		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.36		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.90		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.60		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.81		
		For Each SF Of 24 Gauge Wall Panel, Add	0.73		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.73		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0042	GSF		20' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	25.50	6.12
			For 30' To 49' In Length Only, Add	3.18	
			For 50' To 69' In Length Only, Add	1.73	
			For 70' To 99' In Length Only, Add	0.71	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.77	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.28	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.91	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.49	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.06	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.85	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.12	
			For Each SF Of 24 Gauge Wall Panel, Add	0.77	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.77	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0043	GSF		24' Eave Height, >30' To 40' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	28.47	6.99
			For 30' To 49' In Length Only, Add	3.48	
			For 50' To 69' In Length Only, Add	1.90	
			For 70' To 99' In Length Only, Add	0.78	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.85	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.42	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.14	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.78	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.42	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.41	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.83	
			For Each SF Of 24 Gauge Wall Panel, Add	0.86	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.87	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0044			>40' To 80' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)		
13 34 19 00-0045	GSF		10' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	16.80	3.31
			For 30' To 49' In Length Only, Add	2.44	
			For 50' To 69' In Length Only, Add	1.33	
			For 70' To 99' In Length Only, Add	0.55	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.50	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.84	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.26	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.64	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.02	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.19	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.03	
			For Each SF Of 24 Gauge Wall Panel, Add	0.52	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.46	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0046	GSF		12' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	17.67	3.54
			For 30' To 49' In Length Only, Add	2.54	
			For 50' To 69' In Length Only, Add	1.39	
			For 70' To 99' In Length Only, Add	0.57	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.53	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.88	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.33	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.72	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.12	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.36	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.24	
			For Each SF Of 24 Gauge Wall Panel, Add	0.55	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.49	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0047	GSF		14' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	18.52	3.77
			For 30' To 49' In Length Only, Add	2.64	
			For 50' To 69' In Length Only, Add	1.44	
			For 70' To 99' In Length Only, Add	0.59	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.56	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.93	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.39	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.81	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.22	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.52	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.44	
			For Each SF Of 24 Gauge Wall Panel, Add	0.57	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.51	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction		13
Special Structures		13 30
Fabricated Engineered Structures		13 34

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0048	GSF		16' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	19.46	3.99
			For 30' To 49' In Length Only, Add	2.75	
			For 50' To 69' In Length Only, Add	1.50	
			For 70' To 99' In Length Only, Add	0.62	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.97	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.46	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.90	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.34	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.70	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.67	
			For Each SF Of 24 Gauge Wall Panel, Add	0.60	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.54	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0049	GSF		18' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	20.63	4.26
			For 30' To 49' In Length Only, Add	2.90	
			For 50' To 69' In Length Only, Add	1.59	
			For 70' To 99' In Length Only, Add	0.65	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.03	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.55	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.01	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.48	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.92	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.95	
			For Each SF Of 24 Gauge Wall Panel, Add	0.64	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.57	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0050	GSF		20' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	21.71	4.50
			For 30' To 49' In Length Only, Add	3.06	
			For 50' To 69' In Length Only, Add	1.67	
			For 70' To 99' In Length Only, Add	0.69	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.65	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.09	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.63	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.12	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.61	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.12	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.21	
			For Each SF Of 24 Gauge Wall Panel, Add	0.67	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.59	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0051	GSF		24' Eave Height, >40' To 80' Wide, Up To 30' Long Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	24.17	5.10
			For 30' To 49' In Length Only, Add	3.35	
			For 50' To 69' In Length Only, Add	1.83	
			For 70' To 99' In Length Only, Add	0.75	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.73	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.21	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.81	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.36	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.90	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.59	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.80	
			For Each SF Of 24 Gauge Wall Panel, Add	0.74	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.66	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0052			Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)		
			Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0053			Up To 60' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)		
13 34 19 00-0054	GSF		14' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	17.32	3.90
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.87	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.30	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.69	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.08	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.29	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.16	
			For Each SF Of 24 Gauge Wall Panel, Add	0.53	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.53	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0055		GSF 16' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.48	4.18
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.55	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.92	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.39	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.80	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.22	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.51	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.44	
		For Each SF Of 24 Gauge Wall Panel, Add	0.56	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.56	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0056		GSF 18' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	19.39	4.40
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.97	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.45	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.89	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.33	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.68	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.65	
		For Each SF Of 24 Gauge Wall Panel, Add	0.59	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.58	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0057		GSF 20' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	19.23	4.09
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.96	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.44	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.87	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.31	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.65	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.62	
		For Each SF Of 24 Gauge Wall Panel, Add	0.59	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.55	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0058		GSF 24' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.80	4.45
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
		For >3 In 12 Slope To 5 In 12 Slope, Add	1.04	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.56	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.03	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.50	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.95	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.99	
		For Each SF Of 24 Gauge Wall Panel, Add	0.64	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.59	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0059		>60' To 80' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)		
13 34 19 00-0060		GSF 14' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.16	3.45
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.48	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.81	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.21	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.58	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.94	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.07	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.88	
		For Each SF Of 24 Gauge Wall Panel, Add	0.50	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.48	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0061		GSF 16' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.19	3.67
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.86	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.29	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.68	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.06	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.27	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.13	
		For Each SF Of 24 Gauge Wall Panel, Add	0.53	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.50	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction		13
Special Structures		13 30
Fabricated Engineered Structures		13 34

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0062	GSF	18'	Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	18.10	3.90
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.91	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.36	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.76	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.17	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.44	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.34	
			For Each SF Of 24 Gauge Wall Panel, Add	0.56	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.53	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0063	GSF	20'	Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	18.92	4.09
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.57	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.95	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.42	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.84	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.27	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.59	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.54	
			For Each SF Of 24 Gauge Wall Panel, Add	0.58	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.55	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0064	GSF	24'	Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	20.46	4.45
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.61	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.02	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.53	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.99	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.46	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.89	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.91	
			For Each SF Of 24 Gauge Wall Panel, Add	0.63	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.59	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0065			>80' To 100' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0062)		
13 34 19 00-0066	GSF	14'	Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	15.07	3.04
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.75	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.13	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.47	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.81	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.86	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.62	
			For Each SF Of 24 Gauge Wall Panel, Add	0.47	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.43	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0067	GSF	16'	Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	15.80	3.18
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.47	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.79	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.19	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.54	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.90	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.00	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.79	
			For Each SF Of 24 Gauge Wall Panel, Add	0.49	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.45	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0068	GSF	18'	Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	16.63	3.36
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.50	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.83	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.25	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.62	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.00	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.16	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.99	
			For Each SF Of 24 Gauge Wall Panel, Add	0.51	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.47	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0069		GSF 20' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.35	3.50
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.87	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.30	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.69	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.08	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.30	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.16	
		For Each SF Of 24 Gauge Wall Panel, Add	0.54	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.48	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0070		GSF 24' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.77	3.81
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.56	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.94	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.41	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.83	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.25	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.57	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.50	
		For Each SF Of 24 Gauge Wall Panel, Add	0.58	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.52	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0071		>100' To 120' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)		
13 34 19 00-0072		GSF 14' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	14.70	2.90
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.44	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.74	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.10	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.43	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.76	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.79	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.53	
		For Each SF Of 24 Gauge Wall Panel, Add	0.46	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.42	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0073		GSF 16' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	15.29	3.04
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.46	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.76	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.15	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.49	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.83	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.91	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.67	
		For Each SF Of 24 Gauge Wall Panel, Add	0.47	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.43	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0074		GSF 18' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.00	3.18
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.48	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.80	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.20	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.56	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.92	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.04	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.84	
		For Each SF Of 24 Gauge Wall Panel, Add	0.50	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.45	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0075		GSF 20' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.68	3.31
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.50	
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.83	
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.25	
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.63	
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.00	
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.17	
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.00	
		For Each SF Of 24 Gauge Wall Panel, Add	0.52	
		For Each SF Of Lap Roof, Deduct	-0.76	
		For Each SF Of Hip Roof, Add	0.46	
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction		13
Special Structures		13 30
Fabricated Engineered Structures		13 34

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0076	GSF	24'	Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	18.09	3.58
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.90	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.36	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.76	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.17	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.44	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.34	
			For Each SF Of 24 Gauge Wall Panel, Add	0.56	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.49	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0077	Double Post 3-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)				
	Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.				
13 34 19 00-0078	Up To 120' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0077)				
13 34 19 00-0079	GSF	14'	Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	14.50	3.04
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.44	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.73	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.09	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.41	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.74	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.76	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.48	
			For Each SF Of 24 Gauge Wall Panel, Add	0.45	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.43	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0080	GSF	16'	Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	15.06	3.18
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.75	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.13	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.47	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.81	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.86	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.61	
			For Each SF Of 24 Gauge Wall Panel, Add	0.46	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.45	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0081	GSF	18'	Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	15.19	3.09
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.46	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.76	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.14	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.48	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.82	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.89	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.65	
			For Each SF Of 24 Gauge Wall Panel, Add	0.47	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.44	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0082	GSF	20'	Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	15.79	3.22
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.47	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.79	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.18	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.54	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.89	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.00	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.79	
			For Each SF Of 24 Gauge Wall Panel, Add	0.49	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.45	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0083	GSF	24'	Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	17.84	3.45
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.89	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.34	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.74	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.14	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.39	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.28	
			For Each SF Of 24 Gauge Wall Panel, Add	0.56	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.48	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0084	>120' To 150' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0077)				

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0085	GSF	14' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	13.76	2.77	
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.41		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.69		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.03		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.34		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.65		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.61		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.30		
		For Each SF Of 24 Gauge Wall Panel, Add	0.43		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.40		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0086	GSF	16' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	14.23	2.86	
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.43		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.71		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.07		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.39		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.71		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.70		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.42		
		For Each SF Of 24 Gauge Wall Panel, Add	0.44		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.41		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0087	GSF	18' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	14.77	2.97	
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.44		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.74		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.11		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.44		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.77		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.81		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.54		
		For Each SF Of 24 Gauge Wall Panel, Add	0.46		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.43		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0088	GSF	20' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	15.28	3.09	
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.46		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.76		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.15		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.49		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.83		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.90		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.67		
		For Each SF Of 24 Gauge Wall Panel, Add	0.47		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.44		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0089	GSF	24' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	17.31	3.31	
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.52		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.87		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.30		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.69		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.08		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.29		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.15		
		For Each SF Of 24 Gauge Wall Panel, Add	0.54		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.46		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		
13 34 19 00-0090		Triple Post 4-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)			
		Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.			
13 34 19 00-0091		Up To 160' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building			
		(13 34 19 00-0090)			
13 34 19 00-0092	GSF	14' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	13.22	2.63	
		For >1 In 12 Slope To 3 In 12 Slope, Add	0.40		
		For >3 In 12 Slope To 5 In 12 Slope, Add	0.66		
		For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.99		
		For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.29		
		For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.59		
		For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.51		
		For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.17		
		For Each SF Of 24 Gauge Wall Panel, Add	0.41		
		For Each SF Of Lap Roof, Deduct	-0.76		
		For Each SF Of Hip Roof, Add	0.39		
		For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97		



Special Construction		13
Special Structures		13 30
Fabricated Engineered Structures		13 34

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0093 GSF 16' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding 13.78		2.73
For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.69	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.03	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.34	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.65	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.62	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.31	
For Each SF Of 24 Gauge Wall Panel, Add	0.43	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.40	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0094 GSF 18' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding 14.26		2.81
For >1 In 12 Slope To 3 In 12 Slope, Add	0.43	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.71	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.07	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.39	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.71	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.71	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.42	
For Each SF Of 24 Gauge Wall Panel, Add	0.44	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.41	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0095 GSF 20' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding 14.69		2.90
For >1 In 12 Slope To 3 In 12 Slope, Add	0.44	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.73	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.10	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.43	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.76	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.79	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.53	
For Each SF Of 24 Gauge Wall Panel, Add	0.46	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.42	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0096 GSF 24' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding 16.71		3.18
For >1 In 12 Slope To 3 In 12 Slope, Add	0.50	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.84	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.25	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.63	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.01	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.17	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.01	
For Each SF Of 24 Gauge Wall Panel, Add	0.52	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.45	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0097 >160' To 180' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building (13 34 19 00-0090)		
13 34 19 00-0098 GSF 14' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding 13.06		2.54
For >1 In 12 Slope To 3 In 12 Slope, Add	0.39	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.65	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.98	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.27	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.57	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.48	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.13	
For Each SF Of 24 Gauge Wall Panel, Add	0.41	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.38	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0099 GSF 16' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding 13.53		2.63
For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.68	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.01	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.32	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.62	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.57	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.25	
For Each SF Of 24 Gauge Wall Panel, Add	0.42	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.39	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0100 GSF 18' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.04	2.73
For >1 In 12 Slope To 3 In 12 Slope, Add	0.42	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.70	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.05	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.37	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.68	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.67	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.37	
For Each SF Of 24 Gauge Wall Panel, Add	0.44	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.40	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0101 GSF 20' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.52	2.81
For >1 In 12 Slope To 3 In 12 Slope, Add	0.44	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.73	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.09	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.42	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.74	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.76	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.48	
For Each SF Of 24 Gauge Wall Panel, Add	0.45	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.41	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0102 GSF 24' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.44	3.04
For >1 In 12 Slope To 3 In 12 Slope, Add	0.49	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.82	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.23	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.60	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.97	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.12	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.95	
For Each SF Of 24 Gauge Wall Panel, Add	0.51	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.43	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0103 >180' To 200' Wide Triple Post 4-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0090)		
13 34 19 00-0104 GSF 14' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.93	2.45
For >1 In 12 Slope To 3 In 12 Slope, Add	0.39	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.65	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.97	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.26	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.55	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.46	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.10	
For Each SF Of 24 Gauge Wall Panel, Add	0.40	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.37	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0105 GSF 16' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	13.30	2.54
For >1 In 12 Slope To 3 In 12 Slope, Add	0.40	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.67	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.00	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.30	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.60	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.53	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.19	
For Each SF Of 24 Gauge Wall Panel, Add	0.41	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.38	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0106 GSF 18' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	13.82	2.63
For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.69	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.04	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.35	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.66	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.63	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.32	
For Each SF Of 24 Gauge Wall Panel, Add	0.43	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.39	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction			13
Special Structures			13 30
Fabricated Engineered Structures			13 34

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0107 GSF 20' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.33	2.73
For >1 In 12 Slope To 3 In 12 Slope, Add	0.43	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.72	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.07	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.40	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.72	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.72	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.44	
For Each SF Of 24 Gauge Wall Panel, Add	0.45	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.40	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0108 GSF 24' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.27	2.95
For >1 In 12 Slope To 3 In 12 Slope, Add	0.49	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.81	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.22	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.59	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.95	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.09	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.90	
For Each SF Of 24 Gauge Wall Panel, Add	0.51	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.42	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0109 Metal Building Options (13 34 19 00-0001)		
Note: For use with metal buildings only. See CSI section 08 12 13 13-0000 for metal door frames, 08 13 13 13-0000 for metal doors, 08 33 23 00-0000 for coiling roll-up doors.		
13 34 19 00-0110 Metal Framing For Rough Openings (13 34 19 00-0109)		
13 34 19 00-0111 EA Single Door, Metal Frame Rough Opening	352.92	101.65
13 34 19 00-0112 EA Double Door, Metal Frame Rough Opening	527.77	131.60
13 34 19 00-0113 EA 10' x 10' Overhead Door, Metal Frame Rough Opening	606.37	124.79
13 34 19 00-0114 EA 12' x 12' Overhead Door, Metal Frame Rough Opening	652.12	127.06
13 34 19 00-0115 EA 14' x 14' Overhead Door, Metal Frame Rough Opening	690.73	131.60
13 34 19 00-0116 EA Up To 12 SF, Window Opening, Metal Frame Rough Opening	341.41	101.65
13 34 19 00-0117 EA >12 To 18 SF, Window Opening, Metal Frame Rough Opening	384.08	115.53
13 34 19 00-0118 LF Additional Girts	8.39	
13 34 19 00-0119 Wall Panel Options For Metal Buildings (13 34 19 00-0109)		
Note: Upgrade from 26 gauge wall panels.		
13 34 19 00-0120 SF Upgrade To 2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	8.77	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0121 SF Upgrade To 2-1/2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	10.96	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0122 SF Upgrade To 3" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	12.96	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0123 SF Upgrade To 4" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	15.36	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0124 Roofing Options For Metal Buildings (13 34 19 00-0109)		
Note: Upgrade from 26 gauge standing seam roof panels.		
13 34 19 00-0125 SF Upgrade To 24 Gauge Galvanized Steel Standing Seam Roof	0.77	
13 34 19 00-0126 SF Upgrade To 4" Thick Insulated Roof Panel, Metal-Span III, CFR-42	11.95	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0127 SF Upgrade To 5" Thick Insulated Roof Panel, Metal-Span III, CFR-42	12.90	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0128 SF Upgrade To 6" Thick Insulated Roof Panel, Metal-Span III, CFR-42	13.68	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0129 EA 3' x 10' Translucent Fiberglass Panels	136.53	39.03
13 34 19 00-0130 LF Vented Ridge Vent For Standing Seam Roof	23.90	
13 34 19 00-0131 Insulation For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0132 SF 1-1/2" Thick, R-5.5, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.05	0.32
13 34 19 00-0133 SF 2-1/2" Thick, R-8, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.15	0.32
13 34 19 00-0134 SF 3-1/2" Thick, R-11, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.31	0.43
13 34 19 00-0135 SF 3-1/2" Thick, R-13, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.48	0.43

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0136 SF 6" Thick, R-19, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....	1.82	0.43
13 34 19 00-0137 SF 1-1/2" Thick, R-5.5, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.23	0.32
13 34 19 00-0138 SF 2-1/2" Thick, R-8, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.34	0.32
13 34 19 00-0139 SF 3-1/2" Thick, R-11, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.46	0.43
13 34 19 00-0140 SF 3-1/2" Thick, R-13, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.59	0.43
13 34 19 00-0141 SF 6" Thick, R-19, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....	1.88	0.43
13 34 19 00-0142 SF 1-1/2" Thick, R-5.5, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.18	0.32
13 34 19 00-0143 SF 2-1/2" Thick, R-8, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.30	0.32
13 34 19 00-0144 SF 3-1/2" Thick, R-11, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.53	0.43
13 34 19 00-0145 SF 3-1/2" Thick, R-13, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.67	0.43
13 34 19 00-0146 SF 6" Thick, R-19, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.93	0.43
13 34 19 00-0147 SF 2" Thick, R-6.5, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.11	0.32
13 34 19 00-0148 SF 3" Thick, R-10, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.17	0.32
13 34 19 00-0149 SF 4" Thick, R-13, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.32	0.43
13 34 19 00-0150 SF 6" Thick, R-19, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.62	0.43
13 34 19 00-0151 SF 2" Thick, R-6.5, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.12	0.32
13 34 19 00-0152 SF 3" Thick, R-10, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.19	0.32
13 34 19 00-0153 SF 4" Thick, R-13, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.34	0.43
13 34 19 00-0154 SF 6" Thick, R-19, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.65	0.43
13 34 19 00-0155 SF 2" Thick, R-6.5, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....	1.43	0.32
13 34 19 00-0156 SF 3" Thick, R-10, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....	1.52	0.32
13 34 19 00-0157 SF 4" Thick, R-13, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....	1.68	0.43
13 34 19 00-0158 SF 6" Thick, R-19, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation.....	1.98	0.43

13 34 19 00-0159 Eave And Overhang Options For Metal Buildings (13 34 19 00-0109)

13 34 19 00-0160 LF 2' End Wall Roof Overhang And 26 Gauge Soffit	26.38	7.08
13 34 19 00-0161 LF 4' End Wall Roof Overhang And 26 Gauge Soffit	39.46	5.08
13 34 19 00-0162 SF Up To 20 SF, Prefinished Aluminum, Wall Hung Canopy.....	54.30	11.34
Note: Up to 7' projection from wall. Includes finished underside and edges.		
<i>For End Braced (Up To 16' Wall Projection), Add</i>		
<i>For Overhead Braced (Up To 10' Wall Projection), Add</i>		
13 34 19 00-0163 SF >20 To 50 SF, Prefinished Aluminum, Wall Hung Canopy.....	45.40	9.53
Note: Up to 7' projection from wall. Includes finished underside and edges.		
<i>For End Braced (Up To 16' Wall Projection), Add</i>		
<i>For Overhead Braced (Up To 10' Wall Projection), Add</i>		
13 34 19 00-0164 SF >50 SF, Prefinished Aluminum, Wall Hung Canopy.....	35.08	8.17
Note: Up to 7' projection from wall. Includes finished underside and edges.		
<i>For End Braced (Up To 16' Wall Projection), Add</i>		
<i>For Overhead Braced (Up To 10' Wall Projection), Add</i>		
13 34 19 00-0165 SF Up To 50 SF, Prefinished Aluminum, Free Standing Canopy	68.66	17.25
Note: Includes finished underside and edges.		
13 34 19 00-0166 SF >50 SF, Prefinished Aluminum, Free Standing Canopy	45.33	10.44
Note: Includes finished underside and edges.		
13 34 19 00-0167 LF 1' Standard Eave Overhang Without Soffit.....	25.78	
13 34 19 00-0168 LF 2' Standard Eave Overhang Without Soffit.....	32.18	
13 34 19 00-0169 LF 3' Standard Eave Overhang Without Soffit.....	38.87	
13 34 19 00-0170 LF 4' Standard Eave Overhang Without Soffit.....	45.44	
13 34 19 00-0171 LF 6' Standard Eave Overhang Without Soffit.....	57.84	
13 34 19 00-0172 LF 1' Standard Eave Overhang And 26 Gauge Soffit.....	34.03	
<i>For 24 Gauge, Add</i>		
13 34 19 00-0173 LF 2' Standard Eave Overhang And 26 Gauge Soffit.....	42.43	
<i>For 24 Gauge, Add</i>		
13 34 19 00-0174 LF 3' Standard Eave Overhang And 26 Gauge Soffit.....	51.09	
<i>For 24 Gauge, Add</i>		
13 34 19 00-0175 LF 4' Standard Eave Overhang And 26 Gauge Soffit.....	59.78	
<i>For 24 Gauge, Add</i>		
13 34 19 00-0176 LF 6' Standard Eave Overhang And 26 Gauge Soffit.....	76.25	
<i>For 24 Gauge, Add</i>		

13 34 19 00-0177 Louvers And Vents For Metal Buildings (13 34 19 00-0109)

13 34 19 00-0178 EA 4' x 3' Fixed Louver	452.77	141.58
13 34 19 00-0179 EA 12" Rotary Vent With Damper	277.96	90.76
13 34 19 00-0180 EA 20" Rotary Vent With Damper	465.03	121.16
13 34 19 00-0181 EA 24" Rotary Vent With Damper	600.43	136.14
13 34 19 00-0182 EA Gravity Ridge Ventilator With Birdscreen, 9" Throat x 10'	704.58	181.52
13 34 19 00-0183 EA Gravity Ridge Ventilator With Birdscreen, 12" Throat x 10'	743.46	181.52
13 34 19 00-0184 EA Ridge Ventilator - 9" Throat X 10 Ft, Manually Operated Damper With Birdscreen	845.21	181.52
13 34 19 00-0185 EA Ridge Ventilator - 12" Throat X 10 Ft, Manually Operated Damper With Birdscreen	912.18	181.52
13 34 19 00-0186 EA Ridge Ventilator - 15" Throat X 10 Ft, Manually Operated Damper With Birdscreen	985.85	181.52
13 34 19 00-0187 EA Ridge Ventilator - 18" Throat X 10 Ft, Manually Operated Damper With Birdscreen	1,059.52	181.52
13 34 19 00-0188 EA Ridge Ventilator - 9" Throat X 10 Ft, Motor Operated Damper With Birdscreen	1,384.67	226.90
13 34 19 00-0189 EA Ridge Ventilator - 12" Throat X 10 Ft, Motor Operated Damper With Birdscreen	1,505.22	226.90

13 34 19 00-0190 Gutters And Downspouts For Metal Buildings (13 34 19 00-0109)

13 34 19 00-0191 LF Pre-Engineered Standard Type Gutter, Painted	9.89	2.26
<i>For Galvanized Instead Of Painted, Deduct</i>		
	-1.34	
13 34 19 00-0192 LF Pre-Engineered Standard Type Downspout, Painted	8.49	3.18
<i>For Galvanized Instead Of Painted, Deduct</i>		
	-0.54	



Special Construction		13
Special Structures		13 30
Fabricated Engineered Structures		13 34

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 23 Fabricated Structures (13 34)		
13 34 23 13 Portable And Mobile Buildings (13 34 23)		
Note: Includes material, delivery to site, factory design analysis and report, shop drawings and assembly of building on site. Tie down with hurricane anchors on approved foundation. Excludes utility hook-ups and foundation.		
13 34 23 13-0001 Prefabricated Signal, Communication Or Electrical Building (13 34 23 13)		
Note: Complete, includes door, roof, lights and wiring, insulation, painted.		
13 34 23 13-0002 SF 15 SF To 29 SF Prefabricated Signal, Communication Or Electrical Building	454.01	
13 34 23 13-0003 SF 30 SF To 49 SF Prefabricated Signal, Communication Or Electrical Building	389.42	
13 34 23 13-0004 SF 50 SF To 79 SF Prefabricated Signal, Communication Or Electrical Building	311.68	
13 34 23 13-0005 SF 80 SF To 99 SF Prefabricated Signal, Communication Or Electrical Building	246.62	
13 34 23 13-0006 SF 100 SF To 144 SF Prefabricated Signal, Communication Or Electrical Building	220.44	
13 34 23 13-0007 Relocate Trailer Within 5 Miles (13 34 23 13)		
Note: Includes removal of tie-downs and underpins. Set-up tie-downs.		
13 34 23 13-0008 EA Relocate Single Trailer Within 5 Miles	893.47	
13 34 23 13-0009 SF Install Under-Pinning	2.54	
13 34 23 13-0010 Temporary Trailers 1 To 6 Years Life (13 34 23 13)		
Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, phone jacks, two wooden landings, stairs, and handrails. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
13 34 23 13-0011 SF Single Trailer Up To 14' x 73'.....	33.89	
For Each Delivery And Set-Up (Block And Level), Add	1,226.73	
For Each Knock-Down And Pick-Up, Add	946.73	
For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
13 34 23 13-0012 SF Modular Trailers, Connected.....	47.45	
For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
For Each Delivery And Set-Up (Block And Level), Add	2,665.58	
For Each Knock-Down And Pick-Up, Add	2,015.58	
13 34 23 13-0013 EA Add Per Additional Exterior Door With Frame And Hardware.....	508.39	
13 34 23 13-0014 Accessories (13 34 23 13)		
13 34 23 13-0015 Skirting (13 34 23 13-0014)		
Note: Includes 2" x 4" wood framing 16" on center.		
13 34 23 13-0016 Vinyl Covered, Exterior Only (13 34 23 13-0015)		
13 34 23 13-0017 SF 1'-8" High Vinyl Covered Skirt.....	3.56	1.55
13 34 23 13-0018 SF 3' High Vinyl Covered Skirt	5.38	2.55
13 34 23 13-0019 Fiberglass, Exterior Only (13 34 23 13-0015)		
13 34 23 13-0020 SF 1'-8" High Fiberglass Skirt.....	7.04	2.92
13 34 23 13-0021 SF 3' High Fiberglass Skirt.....	8.23	3.55
13 34 23 13-0022 Plywood, Exterior Only (13 34 23 13-0015)		
13 34 23 13-0023 SF 1'-8" High 5/8" Plywood Skirt	6.39	3.09
13 34 23 13-0024 SF 3' High 5/8" Plywood Skirt.....	7.59	3.73
13 34 23 13-0025 Steel, Painted, Exterior Only (13 34 23 13-0015)		
13 34 23 13-0026 SF 1'-8" High 26 Gauge Steel Skirt	6.96	2.92
13 34 23 13-0027 SF 3' High 26 Ga. Steel Skirt.....	8.17	3.55
13 34 23 13-0028 14" x 14" Access Hatch (13 34 23 13-0014)		
Note: Simple design.		
13 34 23 13-0029 EA 14" x 14" Vinyl Covered Access Hatch	173.49	68.32
13 34 23 13-0030 EA 14" x 14" Fiberglass Access Hatch	166.42	68.32
13 34 23 13-0031 EA 14" x 14" Plywood Access Hatch	172.52	68.32
13 34 23 13-0032 EA 14" x 14" 26 Gauge Steel Access Hatch.....	173.31	68.32
13 34 23 13-0033 Aluminum Modular Access Ramp (13 34 23 13-0014)		
Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
13 34 23 13-0034 EA 72" Long x 52-1/4" Wide Ramp Section, Aluminum Modular Access Ramp	1,879.55	22.77
13 34 23 13-0035 EA 60-1/4" Long x 61-3/4" Wide Door Landing Section, Aluminum Modular Access Ramp	1,906.88	29.61
13 34 23 13-0036 EA 60-1/4" Long x 123-1/2" Wide Switchback Landing Section, Aluminum Modular Access Ramp.....	3,906.49	45.55
13 34 23 13-0037 EA 110-3/4" Long x 72" Wide Switchback Landing Section, Aluminum Modular Access Ramp.....	4,205.03	45.55
13 34 23 13-0038 EA 60-1/4" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp.....	1,981.51	29.61
13 34 23 13-0039 EA 71-3/4" Long x 52-1/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp.....	1,954.18	22.77
13 34 23 13-0040 EA 84-1/2" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp.....	2,726.00	29.61
13 34 23 13-0041 EA 30" High x 82" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp.....	1,945.13	29.61
13 34 23 13-0042 EA 35" High x 96" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp.....	1,945.13	29.61

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 34 23 13-0043	EA	42" High x 110" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	2,209.15	29.61
13 34 23 13-0044	EA	49" High x 124" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	2,471.30	29.61

13 34 23 14 Fabricated Classroom Buildings (13 34 23)

13 34 23 14-0001 Semi Permanent Modular Transportable Buildings (13 34 23 14)

13 34 23 14-0002	SF	Portable Classrooms, Complete With Doors, Windows, Fixtures, Toilets And Workroom	50.50	
		For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
		For Each Delivery And Set-Up (Block And Level), Add	2,665.58	
		For Each Knock-Down And Pick-Up, Add	2,015.58	
13 34 23 14-0003	SF	Modular Classroom, Connected, Complete With Doors, Windows, Fixtures, Toilets And Teachers Work Room	51.99	
		For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
		For Each Delivery And Set-Up (Block And Level), Add	2,665.58	
		For Each Knock-Down And Pick-Up, Add	2,015.58	

13 34 23 16 Fabricated Control Booths (13 34 23)

13 34 23 16-0001 Fabricated Parking Attendant Booths (13 34 23 16)

Note: Excludes foundations and slab.

13 34 23 16-0002	EA	Parking Booth For Attendant	1,053.32	
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13 34 23 31 Fabricated Pavilion Style Buildings (13 34 23)

13 34 23 31-0001 Pavilion Style Metal Shelter Structures (13 34 23 31)

Note: Prefabricated open structure system, complete with all necessary hardware. Hip roof, steel structural rafters and columns, urethane/polyester (TGIC) powder finish, aluminum roof decking, 8' height at perimeter. Excludes foundations and slab. Americana or equal.

13 34 23 31-0002	EA	12' x 12' Metal Shelter Structure	7,692.77	1,740.39
13 34 23 31-0003	EA	16' x 16' Metal Shelter Structure	8,967.66	1,816.09
13 34 23 31-0004	EA	16' x 32' Metal Shelter Structure	11,328.01	1,937.17
13 34 23 31-0005	EA	20' x 20' Metal Shelter Structure	10,657.00	1,876.63
13 34 23 31-0006	EA	20' x 30' Metal Shelter Structure	13,107.66	2,058.23
13 34 23 31-0007	EA	20' x 40' Metal Shelter Structure	15,522.65	2,118.77
13 34 23 31-0008	EA	24' x 24' Metal Shelter Structure	12,925.74	1,937.17
13 34 23 31-0009	EA	24' x 48' Metal Shelter Structure	18,155.16	2,421.45
13 34 23 31-0010	EA	30' x 30' Metal Shelter Structure	17,480.18	2,421.45
13 34 23 31-0011	EA	30' x 60' Metal Shelter Structure	31,554.09	3,026.82
13 34 23 31-0012	EA	40' x 40' Metal Shelter Structure	29,595.65	3,782.84
13 34 23 31-0013	EA	40' x 60' Metal Shelter Structure	42,374.64	4,237.55

13 40 Integrated Construction (13)

13 42 Building Modules (13 40)

13 42 63 Detention Cell Modules (13 42)

13 42 63 16 Steel Detention Cell Modules (13 42 63)

13 42 63 16-0001	EA	Bar Front, Rolling, 7/8" Bars, 4" On Center, 7' High, 5' Wide	10,653.28	722.80
		Note: With hardware.		
13 42 63 16-0002	EA	Cells, Prefabricated, 5'-6" Wide, 7'-8" High, Bar Front, Cot	16,255.03	967.84
		Note: Not including plumbing.		
13 42 63 16-0003	SF	Temporary Holding Cell, 1/4" Woven Rod Panels On 2" Centers	71.10	6.85
		Note: Includes 12 gauge steel frame and concealment plates.		
13 42 63 16-0004	SF	Solid Security Ceiling, 14 Gauge Formed Steel Channels	54.66	6.85
		Note: 20" wide, 14 gauge galvanized steel face sheet, 10 gauge steel wall angle, backed polyester powder finish.		
13 42 63 16-0005	SF	Perforated Metal Crime Shield	49.85	2.84

13 47 Facility Protection (13 40)

13 47 13 Cathodic Protection (13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping (13 47 13)

13 47 13 13-0001 Anodes (13 47 13 13)

13 47 13 13-0002 Magnesium Type, Conventional (13 47 13 13-0001)

13 47 13 13-0003	EA	9 LB Magnesium Type Anodes	317.52	142.09
13 47 13 13-0004	EA	17 LB Magnesium Type Anodes	468.99	205.37
13 47 13 13-0005	EA	32 LB Magnesium Type Anode	634.21	264.19
13 47 13 13-0006	EA	48 LB Magnesium Type Anode	900.67	369.65

13 47 13 13-0007 Graphite Type (13 47 13 13-0001)

Note: Includes epoxy cap.

13 47 13 13-0008	EA	3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	492.03	210.58
13 47 13 13-0009	EA	4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	752.21	294.05
13 47 13 13-0010	EA	6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	549.73	184.03



Special Construction		13
Integrated Construction		13 40
Facility Protection		13 47

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 47 13 13-0011 EA 6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	826.52	245.68
13 47 13 13-0012 Rectifiers (13 47 13 13)		
13 47 13 13-0013 Air Cooled, Silicon Type (13 47 13 13-0012)		
13 47 13 13-0014 EA Air Cooled Rectifiers, 28 Volt, 10 Amp Silicon Type	1,395.92	298.82
13 47 13 13-0015 EA Air Cooled Rectifiers, 20 Volt / 20 Amp Silicon Type	1,495.57	298.82
13 47 13 13-0016 Oil Immersed, Silicon Type (13 47 13 13-0012)		
13 47 13 13-0017 EA Oil Immersed Rectifiers, 28 Volt, 10 Amp Silicon Type	2,042.98	345.52
13 47 13 13-0018 EA Oil Immersed Rectifiers, 20 Volt / 20 Amp Silicon Type	2,149.76	345.52
13 47 13 13-0019 Anode Backfill (13 47 13 13)		
13 47 13 13-0020 LB Anode Backfill, Coke Breeze	0.98	0.38
13 47 13 13-0021 Cathodic Protection Cable (13 47 13 13)		
13 47 13 13-0022 MLF Cathodic Protection Cable, OR2 - No 8	1,841.00	736.09
13 47 13 13-0023 MLF Cathodic Protection Cable, OR2 - No 6	2,004.36	736.09
13 47 13 13-0024 MLF Cathodic Protection Cable, OR2 - No 4	2,249.40	736.09
13 47 13 13-0025 MLF Cathodic Protection Cable, OR2 - No 2	2,657.79	736.09
13 47 13 13-0026 MLF Cathodic Protection Cable, OR2 - No 1	3,252.74	811.02
13 47 13 13-0027 MLF Cathodic Protection Cable, OR2-No 1/0	3,559.03	811.02
13 47 13 13-0028 MLF Cathodic Protection Cable, OR2-No 2/0	4,069.52	811.02
13 47 13 13-0029 MLF Cathodic Protection Cable, OR2-No 4/0	5,440.14	884.07
13 47 13 13-0030 Cathodic Test Stations (13 47 13 13)		
13 47 13 13-0031 Flush Curb Box Type With Lockable Cover And Terminal Box (13 47 13 13-0030)		
13 47 13 13-0032 EA Cathodic Test Station, Flush Curb Type With Lockable Cover	243.38	86.12
13 47 13 16 Cathodic Protection For Underground Storage Tanks (13 47 13)		
See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		
13 48 Sound, Vibration, And Seismic Control (13 48)		
13 48 63 Fabricated Seismic Control Assemblies (13 48)		
13 48 63 00-0001 Seismic Bracing Assembly (13 48 63)		
13 48 63 00-0002 EA 4-Bolt Deck Anchor Connection For Seismic Brace	116.09	
Note: Includes drilling into concrete, bolts, anchor plate, seismic bracket attached with bolt, nut and washer.		
13 48 63 00-0003 EA 2 Cable Seismic Brace With Center Threaded Rod Stiffener	114.16	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0004 EA 3 Cable Seismic Brace With Center Threaded Rod Stiffener	171.89	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0005 EA 4 Cable Seismic Brace With Center Threaded Rod Stiffener	222.78	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0006 EA 2 Channel Seismic Brace With Center Threaded Rod Stiffener	210.86	
Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0007 EA 3 Channel Seismic Brace With Center Threaded Rod Stiffener	313.51	
Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0008 EA 4 Channel Seismic Brace With Center Threaded Rod Stiffener	416.18	
Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0009 EA 2 Rod Seismic Brace With Center Threaded Rod Stiffener	135.21	
Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0010 EA 3 Rod Seismic Brace With Center Threaded Rod Stiffener	200.03	
Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0011 EA 4 Rod Seismic Brace With Center Threaded Rod Stiffener	264.86	
Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0012 Seismic Brace Components (13 48 63)		
13 48 63 00-0013 EA 1/8" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-1	23.32	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0014 EA 3/16" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-2	29.93	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0015 EA 1/4" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-3	37.87	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0016 EA 3/8" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-4	49.75	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0017 EA Seismic Solid Brace Swivel Anchor; Mason SSB-1	22.24	
Note: To be used with angle or channel.		
13 48 63 00-0018 EA Seismic Solid Brace Swivel Anchor; Mason SSB-2	28.06	
Note: To be used with angle or channel.		
13 48 63 00-0019 EA Seismic Solid Brace Swivel Anchor; Mason SSB-3	35.12	
Note: To be used with angle or channel.		

13 Special Construction**13 40 Integrated Construction****13 48 Sound, Vibration, And Seismic Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 48 63 00-0020 EA Seismic Solid Brace Swivel Anchor; Mason SSB-4 Note: To be used with angle or channel.	45.51	
13 48 63 00-0021 EA 1/8" Cable Diameter Seismic Cable Brace Hook Anchor; Mason SCBH-1 Note: To be used with 7x19 stranded cable.	25.77	
13 48 63 00-0022 EA 3/16" Cable Diameter Seismic Cable Brace Hook Anchor; Mason SCBH-2 Note: To be used with 7x19 stranded cable.	32.22	
13 48 63 00-0023 EA 1/4" Cable Diameter Seismic Cable Brace Hook Anchor; Mason SCBH-3 Note: To be used with 7x19 stranded cable.	42.60	
13 48 63 00-0024 EA 1/8" Cable Diameter Seismic Cable Brace Vise Anchor; Mason SCBV-1 Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	40.94	
13 48 63 00-0025 EA 3/16" Cable Diameter Seismic Cable Brace Vise Anchor; Mason SCBV-2 Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	55.28	
13 48 63 00-0026 EA 1/4" Cable Diameter Seismic Cable Brace Vise Anchor; Mason SCBV-3 Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	73.36	
13 48 63 00-0027 EA Seismic Rod Clamp; Mason SRC-1 Note: To be used on 3/8" through 5/8" rod. 1" x 1" x 1/4" Angle or Stiffener not included.	18.33	
13 48 63 00-0028 EA Seismic Rod Clamp; Mason SRC-1 1/2 Note: To be used on 3/8" through 1" rod. 1-1/2" x 1-1/2" x 1/4" Angle or Stiffener not included.	21.66	
13 48 63 00-0029 EA Seismic Rod Clamp; Mason SRC-2 Note: To be used on 3/8" through 1-1/4" rod. 2" x 2" x 1/4" Angle or Stiffener not included.	26.23	
13 48 63 00-0030 Seismic Restraints (13 48 63)		
13 48 63 00-0031 EA 1" x 1" Seismic Fastener, Gray, Drilled With 0.187 Diameter Hole Note: Adhesive applied.	3.34	0.90
13 48 63 00-0032 EA 1" x 1" Seismic Fastener, Gray, Adhesive Applied.....	2.43	0.45
13 48 63 00-0033 EA 1" x 2" Seismic Fastener, Gray, Drilled With (2) 0.187 Diameter Hole Note: Adhesive applied.	4.33	1.13
13 48 63 00-0034 EA 1" x 2" Seismic Fastener, Gray, Adhesive Applied.....	3.09	0.56
13 48 63 00-0035 EA 2" x 2" Seismic Fastener, Gray, Adhesive Applied.....	3.90	0.65
13 48 63 00-0036 EA 2" x 3" Seismic Fastener, Gray, Adhesive Applied.....	6.33	0.79
13 48 63 00-0037 LF 3/4" Wide Seismic Strap, Gray.....	2.91	0.67
13 48 63 00-0038 LF 1" Wide Seismic Strap, Gray.....	4.07	0.67
13 48 63 00-0039 EA 3/4" Wide x 4" Long Seismic Strap, Gray.....	1.47	0.45
13 48 63 00-0040 EA 3/4" Wide x 12" Long Seismic Strap, Gray.....	6.25	1.36
13 48 63 00-0041 LF Seismic Chord, Black.....	1.92	0.67
13 48 63 00-0042 LF SAFELOK Seismic Fastener, Black.....	2.40	0.67
13 49 Radiation Protection (13 49)		
13 49 13 Integrated X-Ray Shielding Assemblies (13 49)		
13 49 13 00-0001 Lead Shielding (13 49 13)		
13 49 13 00-0002 SF 1/16" Sheet Lead Shielding.....	18.03	5.42
13 49 13 00-0003 SF 1/8" Sheet Lead Shielding.....	26.11	5.87
13 49 13 00-0004 SF 1/4" Sheet Lead Shielding.....	40.89	6.33
13 49 13 00-0005 SF 1/2" Sheet Lead Shielding.....	72.72	8.14
13 49 16 Modular X-Ray Shielding Rooms (13 49)		
13 49 16 00-0001 X-Ray Barriers, Modular (13 49 16) Note: Panels mounted within framework for attaching to floor, wall or ceiling, upper portion is clear lead plastic window panels 48" high, lower portion is opaque leaded steel panels 36" high. Excludes structural supports.		
13 49 16 00-0002 1-Section Barrier, 36"W x 84"H (13 49 16 00-0001)		
13 49 16 00-0003 EA 0.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	2,551.23	123.71
13 49 16 00-0004 EA 0.8mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	2,698.91	123.71
13 49 16 00-0005 EA 1.0mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	2,807.46	148.45
13 49 16 00-0006 EA 1.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High	2,984.68	148.45
13 49 16 00-0007 2-Section Barrier, 72"W x 84"H (13 49 16 00-0001)		
13 49 16 00-0008 EA 0.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	5,387.48	197.93
13 49 16 00-0009 EA 0.8mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	5,594.23	197.93
13 49 16 00-0010 EA 1.0mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	5,791.44	222.66
13 49 16 00-0011 EA 1.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	6,254.38	247.40
13 49 16 00-0012 3-Section Barrier, 108"W x 84"H (13 49 16 00-0001)		
13 49 16 00-0013 EA 0.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	8,115.17	247.40
13 49 16 00-0014 EA 0.8mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	8,499.14	247.40
13 49 16 00-0015 EA 1.0mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	8,745.79	296.88
13 49 16 00-0016 EA 1.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	9,385.91	321.63
13 49 16 00-0017 X-Ray Barriers, Mobile (13 49 16) Note: Mounted within framework with casters on bottom, clear lead plastic window panels on upper portion, opaque on lower.		
13 49 16 00-0018 30"W x 75"H, Includes Framework (13 49 16 00-0017)		
13 49 16 00-0019 EA 24"H Upper With 0.5mm LE, 48"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	1,669.72	22.60



Special Construction		13
Integrated Construction		13 40
Radiation Protection		13 49

13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 49 16 00-0020 48"W x 75"H, Includes Framework (13 49 16 00-0017)		
13 49 16 00-0021 EA 36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	2,939.77	22.60
13 49 16 00-0022 EA 36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	3,530.50	22.60
13 49 16 00-0023 72"W x 75"H, Includes Framework (13 49 16 00-0017)		
13 49 16 00-0024 EA 36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	3,471.43	22.60
13 49 16 00-0025 EA 36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	4,387.05	22.60
13 49 19 Lead-Lined Materials (13 49)		
13 49 19 16 Lead-Lined Drywall (13 49 19)		
13 49 19 16-0001 Lead Lined Drywall (13 49 19 16)		
13 49 19 16-0002 SF 1/32" Lead Lined 5/8" Fire Rated Drywall	8.35	1.19
13 49 19 16-0003 SF 1/16" Lead Lined 5/8" Fire Rated Drywall	12.94	1.42
13 49 19 16-0004 SF 1/8" Lead Lined 5/8" Fire Rated Drywall	21.77	1.71

END OF SECTION 13

13	13	Special Construction
	13 40	Integrated Construction
	13 49	Radiation Protection



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Conveying Equipment		14
Operation And Maintenance Of Conveying Equipment		14 01
Operation And Maintenance Of Elevators		14 01 20

14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 Conveying Equipment

14 01 Operation And Maintenance Of Conveying Equipment ⁽¹⁴⁾

14 01 20 Operation And Maintenance Of Elevators ^(14 01)

14 01 20 71 Elevator Rehabilitation ^(14 01 20)

14 01 20 71-0001 Elevator Maintenance ^(14 01 20 71)

14 01 20 71-0002	EA	Regular Elevator Inspection, Electric Up To 10 Floors (Sufficient For Issue Of Certificate/Permit)	842.02	
14 01 20 71-0003	EA	Regular Elevator Inspection, Electric Over 10 Floors (Sufficient For Issue Of Certificate/Permit)	1,052.52	
14 01 20 71-0004	EA	Regular Elevator Inspection, Hydraulic (Sufficient For Issue Of Certificate/Permit)	631.52	
14 01 20 71-0005	EA	Regular Elevator Inspection, Roped Hydraulic (Sufficient For Issue Of Certificate/Permit)	684.14	
14 01 20 71-0006	EA	Regular Elevator Inspection, Dumbwaiters/Cart Lifts (Sufficient For Issue Of Certificate/Permit)	184.20	
14 01 20 71-0007	HR	Elevator Servicing, Labor Only	142.62	
14 01 20 71-0008	EA	Full Load Test For Traction And Winding Drum Elevator Up To 10 Floors	736.93	
14 01 20 71-0009	EA	Full Load Test For Traction And Winding Drum Elevator Over 10 Floors	842.18	
14 01 20 71-0010	EA	Full Load Test For Hydraulic Elevator	526.42	
14 01 20 71-0011	EA	Full Load Test For Roped Hydraulic Elevator	657.99	
14 01 20 71-0012	EA	Full Load Test For Dumbwaiters/Cart Lifts	605.37	
14 01 20 71-0013	EA	Acceptance Test Of Traction And Winding Drum Elevator Up To 10 Floors	3,157.58	
14 01 20 71-0014	EA	Acceptance Test Of Traction And Winding Drum Elevator Over 10 Floors	3,473.32	
14 01 20 71-0015	EA	Acceptance Test Of Hydraulic Elevator	2,999.69	
14 01 20 71-0016	EA	Acceptance Test Of Roped Hydraulic Elevator	3,104.94	
14 01 20 71-0017	EA	Acceptance Test Of Dumbwaiters/Cart Lifts	1,841.92	

14 01 20 71-0018 Elevator Modernization ^(14 01 20 71)

14 01 20 71-0019	EA	4" Piston (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	19,204.55	
Note: Includes replacing existing piston, hydraulic pump, motor supply lines, hydraulic valves and ports.				
For Each Additional 50 FPM, Add			3,475.00	
For Each Additional 500 LB, Add			3,475.00	
For Each Additional Stop, Add			3,155.00	
Note: Deduct if <3 stops.				
14 01 20 71-0020	EA	6" Piston (Hydraulic) Unit Up To 3 Stories (2,500 LB x 100 FPM)	23,724.28	
Note: Includes replacing existing piston, hydraulic pump, motor supply lines, hydraulic valves and ports.				
For Each Additional 50 FPM, Add			3,475.00	
For Each Additional 500 LB, Add			3,475.00	
For Each Additional Stop, Add			3,155.00	
Note: Deduct if <3 stops.				
14 01 20 71-0021	EA	8" Piston (Hydraulic) Unit Up To 3 Stories (3,000 LB x 100 FPM)	36,334.28	
Note: Includes replacing existing piston, hydraulic pump, motor supply lines, hydraulic valves and ports.				
For Each Additional 50 FPM, Add			3,475.00	
For Each Additional 500 LB, Add			3,475.00	
For Each Additional Stop, Add			3,155.00	
Note: Deduct if <3 stops.				
14 01 20 71-0022	EA	10" Piston (Hydraulic) Unit Up To 3 Stories (4,000 LB x 100 FPM)	50,177.30	
Note: Includes replacing existing piston, hydraulic pump, motor supply lines, hydraulic valves and ports.				
For Each Additional 50 FPM, Add			3,475.00	
For Each Additional 500 LB, Add			3,475.00	
For Each Additional Stop, Add			3,155.00	
Note: Deduct if <3 stops.				
14 01 20 71-0023	EA	12" Piston (Hydraulic) Unit Up To 3 Stories (6,000 LB x 100 FPM)	59,741.83	
Note: Includes replacing existing piston, hydraulic pump, motor supply lines, hydraulic valves and ports.				
For Each Additional 50 FPM, Add			3,475.00	
For Each Additional 500 LB, Add			3,475.00	
For Each Additional Stop, Add			3,155.00	
Note: Deduct if <3 stops.				
14 01 20 71-0024	EA	Replace Multi-Port Controller Valve System	8,635.62	
14 01 20 71-0025	SET	Car Roller Guide Assembly, Set Of Four	3,840.46	582.67
14 01 20 71-0026	EA	New Door Opening, Excluding Buildback	7,251.16	
14 01 20 71-0027	SF	Cab Flooring, Epoxy Aggregate Flooring	15.53	5.34
14 01 20 71-0028	SF	Cab Flooring, Aluminum Diamond Plate	37.06	7.77
14 01 20 71-0029	EA	Car Stop Electronic Leveling Device (Per Car)	3,836.54	388.45
14 01 20 71-0030	EA	Electronic Leveling Device At Stop (Per Stop)	850.77	145.67
14 01 20 71-0031	EA	Hoistway Door Hangers Set	755.89	145.67
14 01 20 71-0032	EA	Hoistway Door Closer Set	338.88	77.69
14 01 20 71-0033	EA	Hoistway Door Interlock Set	538.40	121.39
14 01 20 71-0034	EA	Fire Service Switch Controller	1,760.99	145.67
14 01 20 71-0035	EA	Car Door Operators With ADA Buzzer	6,818.21	194.22
14 01 20 71-0036	EA	Car Door Safety Edges (Infrared Proximity Type Edge)	4,932.57	194.22
14 01 20 71-0037	EA	Car Operating Panel (ADA, Fire, Position, Chime)	11,150.62	
14 01 20 71-0038	EA	Car Position LED Indicator And Cover Plate, Stainless Steel	469.88	67.98
14 01 20 71-0039	EA	Car Traveling Lanterns With Audible Signal	3,236.93	291.34
14 01 20 71-0040	EA	Hoistway Door Jam Floor Tags (Braille)	111.37	
14 01 20 71-0041	EA	Lobby Vandal Resistant Call Station	639.75	97.11
14 01 20 71-0042	EA	Car Voice Synthesized Floor Announcement Module	3,274.96	
14 01 20 71-0043	LF	Traveling Cable (140 Conductors, #16 AWG Type ETT)	16.74	7.28
14 01 20 71-0044	LF	Governor Cable	7.18	3.40
14 01 20 71-0045	EA	Cab Walls Coverings (3,500 LB, Rigid Stainless Steel)	10,230.29	776.91

14 Conveying Equipment**14 01 Operation And Maintenance Of Conveying Equipment****14 01 20 Operation And Maintenance Of Elevators**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0046 EA Removal And Replacement Of Governor.....	4,936.55	
14 01 20 71-0047 EA Removal And Replacement Of Car Station.....	7,086.04	
14 01 20 71-0048 EA Removal And Replacement Of Telephone.....	2,991.90	
14 01 20 71-0049 EA Removal And Replacement Of Lanterns.....	2,223.27	
14 01 20 71-0050 EA Hall Call Buttons, Vandal Resistant.....	464.50	121.39
14 01 20 71-0051 EA Hall Traveling Lanterns With Audible Signal.....	857.29	169.95
14 01 20 71-0052 EA Add Raised Character (Braille) Signage To Control Panel.....	71.39	
14 01 20 71-0053 EA Reprogram Existing Controller, Signal Fixtures.....	19,113.99	
14 01 20 71-0054 EA New Walls And Platform, Plastic Laminate, For 5' x 7' Cab.....	7,010.68	485.56
14 01 20 71-0055 EA New Walls And Platform, Plastic Laminate With Shell, For 5' x 7' Cab.....	9,950.16	582.67
14 01 20 71-0056 EA Replace Elevator Or Hoistway Doors, Baked Enamel.....	8,673.85	679.78
14 01 20 71-0057 EA Reopening Device, Manual.....	3,521.99	339.89
14 01 20 71-0058 EA Reopening Device, Automatic.....	17,669.74	339.89
14 01 20 71-0059 EA Elevator Pit Ladder.....	1,252.02	388.45
14 01 20 71-0060 EA New Walls And Platform, Partial Cab Plastic Laminate, For 5' x 7' Cab.....	9,616.91	485.56
14 01 20 71-0061 LF Replace Lifting Cable, 3/8" - Liftpack; Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 4.5, EHS Traction Steel - 5.5.....	13.57	7.28
14 01 20 71-0062 LF Replace Lifting Cable, 1/2" - Liftpack; Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 8.0, EHS Traction Steel - 9.7.....	15.05	7.28
14 01 20 71-0063 LF Replace Lifting Cable, 5/8" - Liftpack; Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 12.7, EHS Traction Steel - 15.4.....	16.96	7.28
14 01 20 71-0064 EA Hydraulic Leak Detector And Alarm In Elevator Pit (Sensorcomm Inc).....	3,953.13	135.12
14 01 20 71-0065 LF 6" Wide Elevator Door Jamb Wrapped With 0.030" Stainless Steel.....	235.71	22.57
14 01 20 71-0066 LF 8" Wide Elevator Door Jamb Wrapped With 0.030" Stainless Steel.....	132.97	50.77
14 01 20 71-0067 LF 10" Wide Elevator Door Jamb Wrapped With 0.030" Stainless Steel.....	142.27	50.90
14 01 20 71-0068 LF 12" Wide Elevator Door Jamb Wrapped With 0.030" Stainless Steel.....	67.56	50.94
14 01 20 71-0069 EA "RopeGripper" With Pumping Unit For Use On 4-7/8" Maximum Out To Out Of Cable.....	5,142.24	810.72
14 01 20 71-0070 EA "RopeGripper" With Pumping Unit For Use On 6" Maximum Out To Out Of Cable.....	6,781.95	945.83
14 01 20 71-0071 EA "RopeGripper" With Pumping Unit For Use On 10" Maximum Out To Out Of Cable.....	8,932.56	1,080.95
14 01 20 71-0072 EA "RopeGripper" With Pumping Unit For Use On 11-1/2" Maximum Out To Out Of Cable.....	9,970.79	1,148.51
14 01 20 71-0073 EA 60 Amp Bussmann Power Module Switch, 480 - 120 Volt CPT, Firesafety Interface Relay, Mechanical Interlock.....	2,817.45	135.12
14 01 20 71-0074 EA 100 Amp Bussmann Power Module Switch, 480 - 120 Volt CPT, Firesafety Interface Relay, Mechanical Interlock.....	3,233.24	162.14
14 01 20 71-0075 EA 200 Amp Bussmann Power Module Switch, 480 - 120 Volt CPT, Firesafety Interface Relay, Mechanical Interlock.....	4,291.97	189.17
14 01 20 71-0076 EA Aluminum Handrail Spacers With Set Screw.....	23.82	5.27
14 01 20 71-0077 EA Bronze Handrail Spacers With Set Screw.....	38.22	5.27
14 01 20 71-0078 LF 1/2" x 2" Oround Stainless Steel Elevator Handrail.....	50.00	3.94
14 01 20 71-0079 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	68.84	3.94
14 01 20 71-0080 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	92.64	4.21
14 01 20 71-0081 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	107.63	3.94
14 01 20 71-0082 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	130.32	4.21
14 01 20 71-0083 LF 3/8" x 2" Flat Bar Bronze Elevator Handrail, Brushed Finish.....	84.36	3.94
14 01 20 71-0084 LF 3/8" x 3" Flat Bar Bronze Elevator Handrail, Brushed Finish.....	108.16	4.21
14 01 20 71-0085 LF 3/8" x 2" Flat Bar Bronze Elevator Handrail, Mirror Finish.....	115.39	3.94
14 01 20 71-0086 LF 3/8" x 3" Flat Bar Bronze Elevator Handrail, Mirror Finish.....	139.19	4.21
14 01 20 71-0087 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	72.89	3.94
14 01 20 71-0088 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	79.48	3.94
14 01 20 71-0089 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	106.38	4.21
14 01 20 71-0090 LF 3/8" x 3" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	119.57	4.21
14 01 20 71-0091 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	111.51	3.94
14 01 20 71-0092 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	119.04	3.94
14 01 20 71-0093 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	138.41	4.21
14 01 20 71-0094 LF 3/8" x 3" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	151.60	4.21
14 01 20 71-0095 LF 3/8" x 1-1/2" Diameter Tubular Bronze Elevator Handrail, Brushed Finish.....	84.36	3.94
14 01 20 71-0096 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Brushed Finish.....	92.11	3.94
14 01 20 71-0097 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Brushed Finish.....	123.67	4.21
14 01 20 71-0098 LF 3/8" x 3" Diameter Tubular Bronze Elevator Handrail, Brushed Finish.....	139.19	4.21
14 01 20 71-0099 LF 3/8" x 1-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	129.79	3.94
14 01 20 71-0100 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	138.66	3.94
14 01 20 71-0101 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	161.35	4.21
14 01 20 71-0102 LF 3/8" x 3" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	176.87	4.21

14 01 30 Operation And Maintenance Of Escalators And Moving Walks

(14 01)

14 01 30 71 Escalators and Moving Walks Rehabilitation (14 01 30 71)**14 01 30 71-0001 Maintenance (14 01 30 71)**

14 01 30 71-0002 EA Regular Escalator Inspection (Sufficient For Issue Of Certificate/Permit).....	631.52
14 01 30 71-0003 HR Escalator Servicing, Labor Only.....	105.25
14 01 30 71-0004 EA Acceptance Test Of Escalators And Moving Walks.....	3,473.32

14 01 30 71-0005 Modernization (14 01 30 71)

14 01 30 71-0006 EA Replace 28" Wide Escalator Stair Tread.....	1,832.15
14 01 30 71-0007 EA Replace 36" Wide Escalator Stair Tread.....	1,977.71
14 01 30 71-0008 EA Replace 48" Wide Escalator Stair Tread.....	2,088.69
14 01 30 71-0009 EA Replace 54" Wide Escalator Stair Tread.....	2,260.51
14 01 30 71-0010 LF Replace Sliding Handrail.....	167.40



Conveying Equipment		14
Elevators		14 20
Operation And Maintenance Of Escalators And Moving Walks		14 01 30

14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 20 Elevators ⁽¹⁴⁾

Note: Excludes final electrical work or shaft walls.

14 24 Hydraulic Elevators ^(14 20)

Note: Prices are for a complete operating elevator including all standard controls, hydraulic motor and devices based on unit with cab sized 5' by 8' with galvanized primed shaft door with cab allowances as listed below.

14 24 13 Hydraulic Freight Elevators ^(14 24)

14 24 13 00-0001 Hydraulic Freight Elevators ^(14 24 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices are based on a shaft of 3 stops and 3 openings with power doors. See CSI section 14 24 13 00-0011 for drilling piston hole.

14 24 13 00-0002	EA Hydraulic Freight Elevator, 3,000 LB x 50 FPM	127,498.90	8,183.70
	For Each Additional Stop, Add	5,262.00	
	Note: Deduct if <3 stops.		
	For Each Opening With Bonderized Steel Door, Add	148.00	
	For Each Opening With Stainless Steel Doors, Add	1,610.00	
	For Each Opening With Two Speed Doors, Add	536.00	
	For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
	For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
	For Stainless Steel Cab Interior, Add	12,887.00	
	For Each Additional 50 FPM, Add	3,475.00	
	For Each Additional 500 LB, Add	3,475.00	
	For Each Additional Stop, Add	5,263.00	
	Note: Deduct if <3 stops.		
	For Elevator With Manual Door, Deduct	-11,113.16	
	For Class "B" Loading, Add	1,235.00	
	For Class "C-1" Loading, Add	2,935.00	
	For Class "C-2" Loading, Add	3,530.00	
	For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0003	EA Hydraulic Freight Elevator, 4,000 LB x 50 FPM	139,095.99	8,740.15
	For Each Additional Stop, Add	5,262.00	
	Note: Deduct if <3 stops.		
	For Each Opening With Bonderized Steel Door, Add	148.00	
	For Each Opening With Stainless Steel Doors, Add	1,610.00	
	For Each Opening With Two Speed Doors, Add	536.00	
	For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
	For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
	For Stainless Steel Cab Interior, Add	12,887.00	
	For Each Additional 50 FPM, Add	3,475.00	
	For Each Additional 500 LB, Add	3,475.00	
	For Each Additional Stop, Add	5,263.00	
	Note: Deduct if <3 stops.		
	For Elevator With Manual Door, Deduct	-12,161.57	
	For Class "B" Loading, Add	1,235.00	
	For Class "C-1" Loading, Add	2,935.00	
	For Class "C-2" Loading, Add	3,530.00	
	For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0004	EA Hydraulic Freight Elevator, 6,000 LB x 50 FPM	160,868.74	9,142.39
	For Each Additional Stop, Add	5,262.00	
	Note: Deduct if <3 stops.		
	For Each Opening With Bonderized Steel Door, Add	148.00	
	For Each Opening With Stainless Steel Doors, Add	1,610.00	
	For Each Opening With Two Speed Doors, Add	536.00	
	For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
	For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
	For Stainless Steel Cab Interior, Add	12,887.00	
	For Each Additional 50 FPM, Add	3,475.00	
	For Each Additional 500 LB, Add	3,475.00	
	For Each Additional Stop, Add	5,263.00	
	Note: Deduct if <3 stops.		
	For Elevator With Manual Door, Deduct	-14,258.39	
	For Class "B" Loading, Add	1,235.00	
	For Class "C-1" Loading, Add	2,935.00	
	For Class "C-2" Loading, Add	3,530.00	
	For Class "C-3" Loading, Add	4,800.00	

14 Conveying Equipment**14 20 Elevators****14 24 Hydraulic Elevators**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0005	EA		Hydraulic Freight Elevator, 3,000 LB x 100 FPM	142,362.64	8,276.63
			For Each Additional Stop, Add	5,262.00	
			Note: Deduct if <3 stops.		
			For Each Opening With Bonderized Steel Door, Add	148.00	
			For Each Opening With Stainless Steel Doors, Add	1,610.00	
			For Each Opening With Two Speed Doors, Add	536.00	
			For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
			For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
			For Stainless Steel Cab Interior, Add	12,887.00	
			For Each Additional 50 FPM, Add	3,475.00	
			For Each Additional 500 LB, Add	3,475.00	
			For Each Additional Stop, Add	5,263.00	
			Note: Deduct if <3 stops.		
			For Elevator With Manual Door, Deduct	-12,580.93	
			For Class "B" Loading, Add	1,235.00	
			For Class "C-1" Loading, Add	2,935.00	
			For Class "C-2" Loading, Add	3,530.00	
			For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0006	EA		Hydraulic Freight Elevator, 4,000 LB x 100 FPM	151,889.23	8,846.29
			For Each Additional Stop, Add	5,262.00	
			Note: Deduct if <3 stops.		
			For Each Opening With Bonderized Steel Door, Add	148.00	
			For Each Opening With Stainless Steel Doors, Add	1,610.00	
			For Each Opening With Two Speed Doors, Add	536.00	
			For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
			For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
			For Stainless Steel Cab Interior, Add	12,887.00	
			For Each Additional 50 FPM, Add	3,475.00	
			For Each Additional 500 LB, Add	3,475.00	
			For Each Additional Stop, Add	5,263.00	
			Note: Deduct if <3 stops.		
			For Elevator With Manual Door, Deduct	-13,419.66	
			For Class "B" Loading, Add	1,235.00	
			For Class "C-1" Loading, Add	2,935.00	
			For Class "C-2" Loading, Add	3,530.00	
			For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0007	EA		Hydraulic Freight Elevator, 6,000 LB x 100 FPM	176,017.34	9,377.89
			For Each Additional Stop, Add	5,262.00	
			Note: Deduct if <3 stops.		
			For Each Opening With Bonderized Steel Door, Add	148.00	
			For Each Opening With Stainless Steel Doors, Add	1,610.00	
			For Each Opening With Two Speed Doors, Add	536.00	
			For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
			For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
			For Stainless Steel Cab Interior, Add	12,887.00	
			For Each Additional 50 FPM, Add	3,475.00	
			For Each Additional 500 LB, Add	3,475.00	
			For Each Additional Stop, Add	5,263.00	
			Note: Deduct if <3 stops.		
			For Elevator With Manual Door, Deduct	-15,726.17	
			For Class "B" Loading, Add	1,235.00	
			For Class "C-1" Loading, Add	2,935.00	
			For Class "C-2" Loading, Add	3,530.00	
			For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0008	EA		Hydraulic Freight Elevator, 3,000 LB x 150 FPM	154,943.57	8,276.63
			For Each Additional Stop, Add	5,262.00	
			Note: Deduct if <3 stops.		
			For Each Opening With Bonderized Steel Door, Add	148.00	
			For Each Opening With Stainless Steel Doors, Add	1,610.00	
			For Each Opening With Two Speed Doors, Add	536.00	
			For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
			For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
			For Stainless Steel Cab Interior, Add	12,887.00	
			For Each Additional 50 FPM, Add	3,475.00	
			For Each Additional 500 LB, Add	3,475.00	
			For Each Additional Stop, Add	5,263.00	
			Note: Deduct if <3 stops.		
			For Elevator With Manual Door, Deduct	-13,839.03	
			For Class "B" Loading, Add	1,235.00	
			For Class "C-1" Loading, Add	2,935.00	
			For Class "C-2" Loading, Add	3,530.00	
			For Class "C-3" Loading, Add	4,800.00	



Conveying Equipment	14	
Elevators	14 20	14
Hydraulic Elevators	14 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0009 EA Hydraulic Freight Elevator, 4,000 LB x 150 FPM.....	166,895.30	9,010.51
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,263.00	
Note: Deduct if <3 stops.		
For Elevator With Manual Door, Deduct	-14,887.44	
For Class "B" Loading, Add	1,235.00	
For Class "C-1" Loading, Add	2,935.00	
For Class "C-2" Loading, Add	3,530.00	
For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0010 EA Hydraulic Freight Elevator, 6,000 LB x 150 FPM.....	188,967.65	9,562.50
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,263.00	
Note: Deduct if <3 stops.		
For Elevator With Manual Door, Deduct	-16,984.26	
For Class "B" Loading, Add	1,235.00	
For Class "C-1" Loading, Add	2,935.00	
For Class "C-2" Loading, Add	3,530.00	
For Class "C-3" Loading, Add	4,800.00	
14 24 13 00-0011 Hydraulic Elevators Piston Drilling (14 24 13)		
14 24 13 00-0012 VLF Up To 6" Diameter Piston Drilling	60.56	
Note: Includes casing.		
14 24 13 00-0013 VLF 8" To 10" Diameter Piston Drilling.....	71.39	
Note: Includes casing.		
14 24 13 00-0014 VLF 12" To 16" Diameter Piston Drilling.....	79.43	
Note: Includes casing.		
14 24 13 00-0015 VLF 18" Diameter Piston Drilling	89.92	
Note: Includes casing.		
14 24 23 Hydraulic Passenger Elevators (14 24)		
14 24 23 00-0001 Hydraulic Passenger Elevators (14 24 23)		
Note: Baked enamel shaft doors and plastic laminated trimmed cab, allowance of \$4000. Unit prices are based on a shaft of 3 stops and 3 openings. See CSI section 14 24 13 00-0011 for drilling piston hole.		
14 24 23 00-0002 EA Hydraulic Passenger Elevator, 2,000 LB x 50 FPM	105,883.04	7,859.83
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0003 EA Hydraulic Passenger Elevator, 2,500 LB x 50 FPM	110,724.32	8,183.70
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	

14 Conveying Equipment**14 20 Elevators****14 24 Hydraulic Elevators**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 23 00-0004 EA Hydraulic Passenger Elevator, 3,000 LB x 50 FPM	120,294.79	8,775.21
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0005 EA Hydraulic Passenger Elevator, 2,000 LB x 100 FPM	115,965.32	8,183.70
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0006 EA Hydraulic Passenger Elevator, 2,500 LB x 100 FPM	122,641.83	8,900.39
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0007 EA Hydraulic Passenger Elevator, 3,000 LB x 100 FPM	129,002.29	9,459.07
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0008 EA Hydraulic Passenger Elevator, 2,000 LB x 150 FPM	124,540.71	8,276.63
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0009 EA Hydraulic Passenger Elevator, 2,500 LB x 150 FPM	136,057.75	9,317.88
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	
14 24 23 00-0010 EA Hydraulic Passenger Elevator, 3,000 LB x 150 FPM	146,668.88	10,429.81
For Each Additional 50 FPM, Add	3,475.00	
For Each Additional 500 LB, Add	3,475.00	
For Each Additional Stop, Add	5,262.00	
Note: Deduct if <3 stops.		
For Each Opening With Bonderized Steel Door, Add	148.00	
For Each Opening With Stainless Steel Doors, Add	1,610.00	
For Each Opening With Two Speed Doors, Add	536.00	
For Each Opening With Two Speed Bi-Parting Doors, Add	636.00	
For Custom Plastic Laminated Cab Interiors, Add	1,611.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	10,202.00	
For Stainless Steel Cab Interior, Add	12,887.00	



Conveying Equipment			14
Elevators			14 20
Hydraulic Elevators			14 24

14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 23 00-0011 Twin Jack Holeless Hydraulic Passenger Elevator ^(14 24 23) Note: Baked enamel shaft doors and plastic laminated trimmed cab. Excludes flooring, shaft construction/alterations, pit or mechanical room construction. Connect to established utilities.		
14 24 23 00-0012 EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 3 Stops, 3 Openings	85,783.70	8,183.70
14 24 23 00-0013 EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 2 Stops, 2 Openings	64,464.85	6,992.12
14 26 Limited-Use/Limited-Application Elevators ^(14 20)		
14 26 00 00-0001 Small Elevators, 1 Passenger Capacity ^(14 26) Note: 400 lb capacity, 28 FPM rated, 220V, automatic operation. Includes cab interiors.		
14 26 00 00-0002 EA 2 Stop Per Shaft, Electric, Push Small Elevators, 1 Passenger	33,566.29	3,981.90
14 26 00 00-0003 EA 3 Stop Per Shaft, Electric, Push Small Elevators, 1 Passenger	38,761.24	4,977.37
14 26 00 00-0004 EA 4 Stop Per Shaft, Electric, Push Small Elevators, 1 Passenger	43,977.22	5,972.84
14 26 00 00-0005 Small Elevators, 2 To 3 Passenger Capacity ^(14 26) Note: 750 lb capacity, 36 FPM rated, 220V, automatic operation. Includes cab interiors, telephone box and telephone.		
14 26 00 00-0006 EA 2 Stop Per Shaft, Electric, Push Small Elevators, 2 To 3 Passenger Capacity	48,580.31	5,972.84
14 26 00 00-0007 EA 3 Stop Per Shaft, Electric, Push Small Elevators, 2 To 3 Passenger Capacity	55,273.15	6,968.32
14 26 00 00-0008 EA 4 Stop Per Shaft, Electric, Push Small Elevators, 2 To 3 Passenger Capacity	61,941.05	7,963.79
14 26 00 00-0009 EA 5 Stop Per Shaft, Electric, Push Small Elevators, 2 To 3 Passenger Capacity	69,234.61	8,959.27
14 26 00 00-0010 EA 6 Stop Per Shaft, Electric, Push Small Elevators, 2 To 3 Passenger Capacity	78,129.11	10,452.48
14 26 00 00-0011 EA 7 Stop Per Shaft, Electric, Push Small Elevators, 2 To 3 Passenger Capacity	87,546.48	11,945.69
14 26 00 00-0012 Small Elevators, 4 To 6 Passenger Capacity ^(14 26) Note: 1500 lb capacity, 42 FPM rated, 220V, automatic operation. Includes cab interiors, telephone box and telephone.		
14 26 00 00-0013 EA 2 Stop Per Shaft, Electric, Push Small Elevators, 4 To 6 Passenger Capacity	75,442.30	9,744.40
For #4 Brushed Stainless Steel Doors, Add	111.91	
For Wrap Around Front, Add	55.95	
For Metal Hand Rails, Add	279.77	
For Wood Hand Rails, Add	419.65	
For Red Oak Side Panels, Add	1,678.60	
14 26 00 00-0014 EA 3 Stop Per Shaft, Electric, Push Small Elevators, 4 To 6 Passenger Capacity	86,286.00	11,660.49
For #4 Brushed Stainless Steel Doors, Add	125.93	
For Wrap Around Front, Add	62.97	
For Metal Hand Rails, Add	314.83	
For Wood Hand Rails, Add	472.24	
For Red Oak Side Panels, Add	1,888.95	
14 26 00 00-0015 EA 4 Stop Per Shaft, Electric, Push Small Elevators, 4 To 6 Passenger Capacity	97,650.86	13,837.09
For #4 Brushed Stainless Steel Doors, Add	139.95	
For Wrap Around Front, Add	69.98	
For Metal Hand Rails, Add	349.88	
For Wood Hand Rails, Add	524.83	
For Red Oak Side Panels, Add	2,099.30	
14 30 Escalators And Moving Walks ⁽¹⁴⁾		
14 31 Escalators ^(14 30)		
14 31 00 00-0001 Escalators Stainless Steel Construction ^(14 31) Note: Prices are medians and are based on each moving stairway. Complete, includes all standard accessories and single microprocessor controlled electronic display sign packages, LED.		
14 31 00 00-0002 EA Escalators Stainless Steel, 32" Wide x 12' Floor To Floor Height	204,014.40	10,682.40
14 31 00 00-0003 EA Escalators Stainless Steel, 32" Wide x 15' Floor To Floor Height	224,224.69	12,624.66
14 31 00 00-0004 EA Escalators Stainless Steel, 32" Wide x 18' Floor To Floor Height	243,779.98	14,566.92
14 31 00 00-0005 EA Escalators Stainless Steel, 32" Wide x 22' Floor To Floor Height	267,865.25	17,480.30
14 31 00 00-0006 EA Escalators Stainless Steel, 32" Wide x 25' Floor To Floor Height	296,240.65	19,422.55
14 31 00 00-0007 EA Escalators Stainless Steel, 36" Wide x 12' Floor To Floor Height	216,056.31	11,362.20
14 31 00 00-0008 EA Escalators Stainless Steel, 36" Wide x 15' Floor To Floor Height	237,723.51	13,595.78
14 31 00 00-0009 EA Escalators Stainless Steel, 36" Wide x 18' Floor To Floor Height	257,174.82	15,538.05
14 31 00 00-0010 EA Escalators Stainless Steel, 36" Wide x 22' Floor To Floor Height	287,632.65	19,519.66
14 31 00 00-0011 EA Escalators Stainless Steel, 36" Wide x 25' Floor To Floor Height	310,879.95	20,976.35
14 31 00 00-0012 EA Escalators Stainless Steel, 48" Wide x 12' Floor To Floor Height	228,347.03	12,041.98
14 31 00 00-0013 EA Escalators Stainless Steel, 48" Wide x 15' Floor To Floor Height	251,794.44	14,566.92
14 31 00 00-0014 EA Escalators Stainless Steel, 48" Wide x 18' Floor To Floor Height	270,335.96	16,509.17
14 31 00 00-0015 EA Escalators Stainless Steel, 48" Wide x 22' Floor To Floor Height	308,467.75	20,587.91
14 31 00 00-0016 EA Escalators Stainless Steel, 48" Wide x 25' Floor To Floor Height	327,764.74	22,530.16
14 31 00 00-0017 EA Escalator Fire Shutter Fusible Link	32,018.21	388.45
14 32 Moving Walks ^(14 30)		
14 32 00 00-0001 Moving Sidewalks ^(14 32) Note: Prices are medians. Includes safety rails.		
14 32 00 00-0002 LF Moving Sidewalks, 28" Wide	1,972.55	233.07
For Each LF Of Ramp Or Sloped Sections, Add	338.57	

14	14	Conveying Equipment
14 30	Escalators And Moving Walks	
14 32	Moving Walks	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 32 00 00-0003	LF	Moving Sidewalks, 36" Wide..... For Each LF Of Ramp Or Sloped Sections, Add	2,748.49 492.60	237.93
14 32 00 00-0004	LF	Moving Sidewalks, 48" Wide..... For Each LF Of Ramp Or Sloped Sections, Add	3,131.40 566.86	247.63
14 32 00 00-0005	LF	Moving Sidewalks, 54" Wide..... For Each LF Of Ramp Or Sloped Sections, Add	3,625.32 660.60	268.61

14 40 Lifts ⁽¹⁴⁾**14 42 Wheelchair Lifts** ^(14 40)**14 42 13 Inclined Wheelchair Lifts** ^(14 42)**14 42 13 00-0001 Chair Lift-Stair Climber** ^(14 42 13)

Note: Includes landing, rails, lifting device and gates.

14 42 13 00-0002	EA	Chair Lift, Stair Climber Per Story, Single Passenger, Indoor, 300 LB Capacity..... Note: Includes top and bottom call button, safety chair, track, and power unit.	3,777.32	473.63
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14 42 16 Vertical Wheelchair Lifts ^(14 42)**14 42 16 00-0001 Shorty Wheelchair Lift** ^(14 42 16)

14 42 16 00-0002	EA	36" Vertical Travel Wheelchair Platform Scissor Lift..... Note: 1000 LB capacity. Includes handrails and manual ramp. For Accordion Safety Skirt, Add For Removable Handrails, Add For Power Operated Ramp, Add	6,011.45 998.00 100.00 885.00	315.76
14 42 16 00-0003	EA	42" Vertical Travel Wheelchair Platform Scissor Lift..... Note: 1000 LB capacity. Includes handrails and manual ramp. For 2,000 LB Capacity, Add For 3,000 LB Capacity, Add For 4,000 LB Capacity, Add For Accordion Safety Skirt, Add For Removable Handrails, Add For Power Operated Ramp, Add	6,011.45 600.00 1,000.00 1,500.00 998.00 100.00 885.00	315.76
14 42 16 00-0004	EA	70" Vertical Travel Wheelchair Platform Scissor Lift..... Note: 1000 LB capacity. Includes handrails and manual ramp. For 2,000 LB Capacity, Add For 3,000 LB Capacity, Add For 4,000 LB Capacity, Add For Accordion Safety Skirt, Add For Removable Handrails, Add For Power Operated Ramp, Add	8,221.86 600.00 1,000.00 1,500.00 998.00 100.00 885.00	421.01
14 42 16 00-0005	EA	84" Vertical Travel Wheelchair Platform Scissor Lift..... Note: 1000 LB capacity. Includes handrails and manual ramp. For 2,000 LB Capacity, Add For 3,000 LB Capacity, Add For 4,000 LB Capacity, Add For Accordion Safety Skirt, Add For Removable Handrails, Add For Power Operated Ramp, Add	9,221.86 600.00 1,000.00 1,500.00 998.00 100.00 885.00	421.01
14 42 16 00-0006	EA	18" Travel Wheelchair Incline Lift..... Note: 500 LB capacity, interior installation.	11,579.04	842.02

14 90 Other Conveying Equipment ⁽¹⁴⁾**14 91 Facility Chutes** ^(14 90)**14 91 82 Trash Chutes** ^(14 91)**14 91 82 00-0001 Trash Chutes** ^(14 91 82)

14 91 82 00-0002	LF	18" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... For Aluminum, Add For Stainless Steel, Add	22.38 1.41 4.95	4.32
14 91 82 00-0003	LF	24" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... For Aluminum, Add For Stainless Steel, Add	28.09 1.91 6.69	4.32
14 91 82 00-0004	LF	30" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... For Aluminum, Add For Stainless Steel, Add	30.91 2.12 7.42	5.39
14 91 82 00-0005	LF	36" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports..... For Aluminum, Add For Stainless Steel, Add	45.43 3.49 12.22	5.39
14 91 82 00-0006	EA	Trash Chutes, Hopper..... For Aluminum, Add For Stainless Steel, Add	414.32 35.35 123.73	30.22
14 91 82 00-0007	EA	Trash Chutes, Skylight..... For Aluminum, Add For Stainless Steel, Add	241.95 12.30 43.04	59.36
14 91 82 00-0008	EA	Trash Chutes, Sprinkler Unit At Top..... For Aluminum, Add For Stainless Steel, Add	190.64 5.38 18.83	64.75



Conveying Equipment		14	14
Other Conveying Equipment		14 90	
Facility Chutes		14 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 91 82 00-0009 EA Trash Chutes, Sprinkler Unit At Intake Hopper For Aluminum, Add 0.92 For Stainless Steel, Add 3.23	54.84	22.66
14 91 82 00-0010 EA Refuse Type Bottom Storage Hopper Unit For Aluminum, Add 22.75 For Stainless Steel, Add 79.61	398.53	80.94
14 91 82 00-0011 EA Hopper Doors	792.11	56.89
14 91 82 00-0012 Aluminized Steel Trash Chutes And Accessories (14 91 82) Note: Includes sprinklers. Includes smoke/shut down dampers per floor, chute opening doors per floor, base chute damper. Complete.		
14 91 82 00-0013 EA Refuse Bottom Hopper, Aluminum , 18" Diameter.....	1,512.96	252.84
14 91 82 00-0014 FLR 18" Diameter Trash Chutes And With Sprinklers Aluminized Steel.....	681.69	302.79
14 91 82 00-0015 FLR 24" Diameter Trash Chutes And With Sprinklers Aluminized Steel.....	793.70	331.19
14 91 82 00-0016 FLR 30" Diameter Trash Chutes And With Sprinklers Aluminized Steel.....	890.63	353.23
14 91 82 00-0017 FLR 36" Diameter Trash Chutes And With Sprinklers Aluminized Steel.....	971.78	378.46
14 91 82 00-0018 EA Refuse Bottom Hopper, 36" Aluminized Steel, With Sprinklers	840.31	353.23
14 92 Pneumatic Tube Systems (14 90)		
14 92 00 00-0001 Pneumatic Message Tube Station (14 92) Note: Twin tube, two or more stations, conventional		
14 92 00 00-0002 LF 2-1/2" Tube With Bracketing	43.45	12.89
14 92 00 00-0003 LF 3" Tube With Bracketing	52.26	17.36
14 92 00 00-0004 LF 4" Tube With Bracketing	58.51	15.87
14 92 00 00-0005 LF 6" Tube With Bracketing	72.29	19.84
14 92 00 00-0006 LF 4" x 7" Oval Tube With Bracketing.....	75.27	21.33
14 92 00 00-0007 EA Blower Assembly	7,577.86	396.75
14 92 00 00-0008 EA Receiving Station, Round Or Oval.....	675.82	105.63
14 92 00 00-0009 EA Multi-Sided Dispatching Station, 3 Carrier	1,420.08	148.78
14 92 00 00-0010 EA Laboratory Receiving Station, Round Or Oval.....	1,017.10	133.90
14 92 00 00-0011 EA 2-Way Diverter Station.....	1,750.56	148.78
14 92 00 00-0012 EA 3-Way Diverter Station.....	2,227.50	173.58
14 92 00 00-0013 EA 4-Way Diverter Station.....	2,670.25	198.37

END OF SECTION 14

14	14	Conveying Equipment
	14 90	Other Conveying Equipment
	14 92	Pneumatic Tube Systems



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Fire Suppression	21	
Operation and Maintenance of Fire Suppression	21 01	21
Operation and Maintenance of Water-Based Fire-Suppression Systems	21 01 10	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 Fire Suppression

21 01 Operation and Maintenance of Fire Suppression ⁽²¹⁾

21 01 10 Operation and Maintenance of Water-Based Fire-Suppression Systems ^(21 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

21 01 10 91 Water-Based Fire-Suppression Systems Restoration ^(21 01 10)

21 01 10 91-0001	EA	Relocate Sprinkler Head And Branch Piping ^(21 01 10 91)		
Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.				
21 01 10 91-0002	EA	Relocate Existing Sprinkler Head And Branch Piping.....	62.22	
Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.				
21 01 10 91-0003		Sprinkler Upgrades ^(21 01 10 91)		
21 01 10 91-0004	LF	Bleed Existing Lines Of Water	0.55	
21 01 10 91-0005	LF	Refill Existing Lines With Water	0.65	

21 01 30 Operation and Maintenance of Fire-Suppression Equipment ^(21 01)

21 01 30 91 Fire-Suppression Equipment Restoration ^(21 01 30)

21 01 30 91-0001		Inspection And Recharge ^(21 01 30 91)		
21 01 30 91-0002	EA	Inspection, CO2, Carbon Dioxide	222.93	
21 01 30 91-0003	LB	Refill/Recharge, CO2, Carbon Dioxide	1.46	
21 01 30 91-0004	EA	Inspection, Halon 1301.....	222.93	
21 01 30 91-0005	LB	Refill/Recharge, Halon 1301	34.93	
21 01 30 91-0006	EA	Inspection, WC, Wet Chemical	134.79	
21 01 30 91-0007	GAL	Refill/Recharge, WC, Wet Chemical	32.75	
21 01 30 91-0008	EA	Inspection, DC, Dry Chemical.....	134.79	
21 01 30 91-0009	LB	Refill/Recharge, DC, Dry Chemical.....	2.91	
21 01 30 91-0010	EA	Hydrostatic Testing, All Sizes, All Agents	41.47	
See CSI section 23 05 93 00-0046 for testing existing piping systems.				
21 01 30 91-0011	EA	Disarm/Arm System.....	72.58	

21 05 Common Work Results for Fire Suppression ⁽²¹⁾

21 05 13 Common Motor Requirements For Fire-Suppression Equipment ^(21 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

21 05 16 Expansion Fittings And Loops For Fire-Suppression Piping ^(21 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping ^(21 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

21 05 19 Meters And Gages For Fire-Suppression Systems ^(21 05)

21 05 19 00-0001 Fire Service Meter Cast Iron Housing ^(21 05 19)

21 05 19 00-0002	EA	3" Diameter, 0 - 600 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	3,292.93	476.91
For >10 To 25, Deduct			-164.65	
For >25, Deduct			-420.50	
21 05 19 00-0003	EA	4" Diameter, 0 - 1,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	6,275.07	661.22
For >10 To 25, Deduct			-313.75	
For >25, Deduct			-839.39	
21 05 19 00-0004	EA	6" Diameter, 0 - 2,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	8,558.88	942.59
For >10 To 25, Deduct			-427.94	
For >25, Deduct			-1,138.62	
21 05 19 00-0005	EA	8" Diameter, 0 - 4,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	10,834.63	1,237.65
For >10 To 25, Deduct			-541.73	
For >25, Deduct			-1,469.60	
21 05 19 00-0006	EA	10" Diameter, 0 - 6,200 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	14,962.50	1,457.45
For >10 To 25, Deduct			-748.13	
For >25, Deduct			-2,061.20	

21 05 23 General-Duty Valves For Water-Based Fire-Suppression Piping

^(21 05)
See CSI section 23 05 23 00-0000 for valves.

21 05 29 Hangers And Supports For Fire-Suppression Piping And

21 Fire Suppression**21 05 Common Work Results for Fire Suppression****21 05 29 Hangers And Supports For Fire-Suppression Piping And Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

Equipment ^(21 05)

See CSI section 23 05 29 00-0000 for hangers and supports.

21 05 48 Vibration And Seismic Controls for Fire-Suppression Piping and Equipment ^(21 05)

21 05 48 13 Vibration Controls For Fire-Suppression Piping And Equipment ^(21 05 48)

See CSI section 23 05 48 00-0000 for vibration and seismic control.

21 05 53 Identification For Fire-Suppression Piping And Equipment ^(21 05)

See CSI section 23 05 53 00-0000 for identification.

21 07 Fire-Suppression Systems Insulation ⁽²¹⁾

21 07 19 Fire-Suppression Piping Insulation ^(21 07)

See CSI section 22 07 19 00-0000 for fire-suppression piping insulation.

21 10 Water-Based Fire-Suppression Systems ⁽²¹⁾

See CSI section 22 11 16 00-0345 for copper pipe, 22 11 16 00-0769 for CPVC pipe, 23 05 23 00-0037 for OS&Y gate valves, 23 21 13 23-0000 for black steel piping.

21 11 Facility Fire-Suppression Water-Service Piping ^(21 10)

21 11 19 Fire-Department Connections ^(21 11)

21 11 19 00-0001 Fire Department Connections ^(21 11 19)

21 11 19 00-0002	EA	4" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass	673.58	315.35
		For Polished Chrome, Add	24.48	
21 11 19 00-0003	EA	6" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass	897.23	394.19
		For Polished Chrome, Add	37.47	
21 11 19 00-0004	EA	4" x 3" x 3" Siamese Connection, Polished Brass	857.63	315.35
		For Polished Chrome, Add	47.47	
21 11 19 00-0005	EA	6" x 3" x 3" Siamese Connection, Polished Brass	1,113.06	394.19
		For Polished Chrome, Add	64.45	
21 11 19 00-0006	EA	6" x 2-1/2" x 2-1/2" x 2-1/2" Siamese Connection, Three Way, Polished Brass	1,165.82	394.19
		For Polished Chrome, Add	71.05	
21 11 19 00-0007	EA	Sidewalk Type Connection With Plug And Chain, Polished Brass	1,070.18	417.20
		For Polished Chrome, Add	54.79	
21 11 19 00-0008	EA	Wall Type Connection With Plug And Chain, Polished Brass	729.24	315.35
		For Polished Chrome, Add	31.44	

21 11 19 00-0009 Wall Type Indicator Post, Wheel Operated ^(21 11 19)

See CSI section 33 14 19 00-0152 for adjustable indicator post accessory for ground valves.

21 11 19 00-0010	EA	Wall Type Indicator Post With Wall Flange For Valve (Victaulic 773)	1,048.08	292.30
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21 12 Fire-Suppression Standpipes ^(21 10)

21 12 13 Fire-Suppression Hoses And Nozzles ^(21 12)

21 12 13 00-0001 Fire Hose ^(21 12 13)

21 12 13 00-0002 Fire Hose Without Couplings ^(21 12 13 00-0001)

21 12 13 00-0003	LF	1-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	2.64	2.07
21 12 13 00-0004	LF	2-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	3.07	2.07
21 12 13 00-0005	LF	2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	2.80	2.07
21 12 13 00-0006	LF	3" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings	3.27	2.07
21 12 13 00-0007	LF	1-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings	2.94	2.07
21 12 13 00-0008	LF	2-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings	3.62	2.07
21 12 13 00-0009	LF	1-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings	3.03	2.07
21 12 13 00-0010	LF	2-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings	3.81	2.07

21 12 13 00-0011 Fire Hose With Aluminum Couplings ^(21 12 13 00-0001)

21 12 13 00-0012	LF	1-3/4" Polyester Fire Hose With Rubber Lining With Aluminum Couplings	3.76	1.14
21 12 13 00-0013	LF	2-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings	4.51	1.35
21 12 13 00-0014	LF	3-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings	6.57	1.35

21 12 13 00-0015 Fire Hose Accessories ^(21 12 13 00-0001)

21 12 13 00-0016	EA	Hose Coupling With 1-1/2" Pin Lug	86.18	34.21
21 12 13 00-0017	EA	Hose Coupling With 2-1/2" Pin Lug	116.91	38.36
21 12 13 00-0018	EA	1-1/2" x 10" Brass Straight Nozzle	59.31	26.96
21 12 13 00-0019	EA	2-1/2" x 12" Brass Straight Nozzle	94.87	26.96
21 12 13 00-0020	EA	1-1/2" Brass Fog Type Nozzle	78.81	26.96
21 12 13 00-0021	EA	2-1/2" Brass Fog Type Nozzle	104.41	26.96
21 12 13 00-0022	EA	1-1/2" Brass 100' Hose Rack	222.60	114.06
21 12 13 00-0023	EA	2-1/2" Brass 100' Hose Rack	268.24	114.06



Fire Suppression			21
Water-Based Fire-Suppression Systems			21 10
Fire-Suppression Standpipes			21 12

21

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
21 12 23 Fire-Suppression Hose Valves (21 12)					
21 12 23 00-0001 Standpipe Valves (21 12 23)					
21 12 23 00-0002	EA	2-1/2" Fire Department Valve, Polished Brass With Plug And Chain.....	479.93		208.60
		For Polished Chrome, Add	24.60		
21 12 23 00-0003	EA	2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass.....	674.08		208.51
		For Polished Chrome, Add	53.73		
21 12 23 00-0004	EA	2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass.....	835.82		225.55
		For Polished Chrome, Add	74.10		
21 12 23 00-0005	EA	3" x 3" x 4" Fire Department Valve, Flush, Polished Brass.....	953.87		208.51
		For Polished Chrome, Add	95.69		
21 12 23 00-0006	EA	3" x 3" x 6" Fire Department Valve, Flush, Polished Brass.....	1,105.46		225.55
		For Polished Chrome, Add	114.55		
21 12 23 00-0007	EA	2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass.....	644.35		208.51
		For Polished Chrome, Add	49.27		
21 12 23 00-0008	EA	2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass.....	882.45		225.55
		For Polished Chrome, Add	81.10		
21 12 23 00-0009	EA	2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass.....	1,072.90		215.26
		For Polished Chrome, Add	89.61		
21 12 23 00-0010	EA	2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass.....	1,482.54		239.16
		For Polished Chrome, Add	134.42		
21 12 23 00-0011	EA	2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass	1,139.80		215.26
		For Polished Chrome, Add	97.64		
21 12 23 00-0012	EA	2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass	1,583.34		239.16
		For Polished Chrome, Add	146.51		
21 12 23 00-0013	EA	2-1/2" x 2-1/2" x 2-1/2" x 2-1/2" 6" Fire Department Valve, Square, Flush, Polished Brass.....	2,509.99		286.95
		For Polished Chrome, Add	207.51		
21 12 23 00-0014 Fire Hose Cabinet Angle Valves (21 12 23)					
21 12 23 00-0015	EA	1-1/2" Fire Hose Angle Valve, Cast Brass	146.92		
21 12 23 00-0016	EA	2-1/2" Fire Hose Angle Valve, Cast Brass	247.50		46.66
21 12 29 Fire-Suppression Fire Hose Equipment (21 12)					
21 12 29 00-0001 Standpipe And Fire Hose Equipment (21 12 29)					
21 12 29 00-0002	EA	2-1/2" x 2-1/2" x 2-1/2" x 4" Manifold Roof Type, Vertical, Polished Brass	1,348.08		517.10
21 12 29 00-0003	EA	Water Motor Gong	448.55		148.30
21 12 29 00-0004	EA	Fire Riser Flow Switch (NFPA 13)	267.36		17.26
21 12 29 00-0005	EA	Water Flow Supervisory (Tammer) Switch Mounted On Valve	152.49		29.51
21 12 29 00-0006	EA	Pressure-Type Water Flow Detector For Up To 2-1/2" Pipe	274.07		90.82
21 12 29 00-0007	EA	Pressure-Type Water Flow Detector For >2-1/2" To 4" Pipe	391.89		120.33
21 12 29 00-0008	EA	Pressure-Type Water Flow Detector For >4" To 8" Pipe	562.80		136.22
21 12 29 00-0009	EA	Vane-Type Water Flow Switch For Up To 2-1/2" Pipe	324.08		90.82
21 12 29 00-0010	EA	Vane-Type Water Flow Switch For >2-1/2" To 4" Pipe	453.16		120.33
21 12 29 00-0011	EA	Vane-Type Water Flow Switch For >4" To 8" Pipe	659.91		136.22
21 12 29 00-0012	EA	Lever Type Bleeder Valve (Potter BVL)	113.39		29.51
21 13 Fire-Suppression Sprinkler Systems (21 10)					
21 13 13 Wet-Pipe Sprinkler Systems (21 13)					
21 13 13 00-0001 Complete Wet-Pipe Sprinkler Systems (21 13 13)					
Note: Includes complete design per NFPA 13, 13D or 13R and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc) from riser pipe and mains. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks.					
21 13 13 00-0002 Light Hazard, Complete Wet-Pipe Sprinkler Systems (21 13 13 00-0001)					
21 13 13 00-0003	EA	Exposed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	358.65		
		Note: Includes branch pipe and fittings, supports and sprinkler heads.			
		For Copper Pipe, Add	40.50		
		For Polyvinyl Chloride (PVC) Pipe, Deduct	-58.43		
		For Up To 5, Add	170.06		
		For >5 To 10, Add	111.62		
		For >10 To 20, Add	75.76		
		For >20 To 40, Add	31.23		
		For >100 To 150, Deduct	-35.87		
		For >150, Deduct	-71.73		
21 13 13 00-0004	EA	Concealed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head	491.90		
		Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.			
		For Copper Pipe, Add	54.20		
		For Polyvinyl Chloride (PVC) Pipe, Deduct	-78.80		
		For Up To 5, Add	235.92		
		For >5 To 10, Add	157.12		
		For >10 To 20, Add	107.93		
		For >20 To 40, Add	44.18		
		For >100 To 150, Deduct	-49.19		
		For >150, Deduct	-98.38		

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0005 Ordinary Hazard, Complete Wet-Pipe Sprinkler Systems (21 13 13 00-0001)		
21 13 13 00-0006 EA Exposed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	356.31	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	40.31	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-58.13	
For Up To 5, Add	168.80	
For >5 To 10, Add	110.67	
For >10 To 20, Add	75.04	
For >20 To 40, Add	30.95	
For >100 To 150, Deduct	-35.63	
For >150, Deduct	-71.26	
21 13 13 00-0007 EA Concealed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	486.78	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	53.70	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-78.03	
For Up To 5, Add	233.36	
For >5 To 10, Add	155.32	
For >10 To 20, Add	106.64	
For >20 To 40, Add	43.66	
For >100 To 150, Deduct	-48.68	
For >150, Deduct	-97.36	
21 13 13 00-0008 Extra Hazard, Complete Wet-Pipe Sprinkler Systems (21 13 13 00-0001)		
21 13 13 00-0009 EA Exposed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	330.40	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	37.33	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-53.85	
For Up To 5, Add	156.63	
For >5 To 10, Add	102.79	
For >10 To 20, Add	69.75	
For >20 To 40, Add	28.76	
For >100 To 150, Deduct	-33.04	
For >150, Deduct	-66.08	
21 13 13 00-0010 EA Concealed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	452.05	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	49.81	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-72.41	
For Up To 5, Add	216.82	
For >5 To 10, Add	144.41	
For >10 To 20, Add	99.21	
For >20 To 40, Add	40.60	
For >100 To 150, Deduct	-45.21	
For >150, Deduct	-90.41	
21 13 13 00-0011 Wet-Pipe Sprinkler Components (21 13 13)		
Note: Excludes hydraulic calculations.		
21 13 13 00-0012 Wet-Pipe Alarm Valves (21 13 13 00-0011)		
21 13 13 00-0013 EA 2" Wet-Pipe Alarm Valve.....	1,583.71	772.19
21 13 13 00-0014 EA 3" Wet-Pipe Alarm Valve.....	2,136.13	1,054.09
21 13 13 00-0015 EA 4" Wet-Pipe Alarm Valve.....	3,273.61	1,475.73
21 13 13 00-0016 EA 6" Wet-Pipe Alarm Valve.....	3,772.65	1,743.63
21 13 13 00-0017 EA 8" Wet-Pipe Alarm Valve.....	5,108.53	1,918.00
21 13 13 00-0018 Wet-Pipe Sprinkler Heads (21 13 13 00-0011)		
21 13 13 00-0019 Upright Wet-Pipe Sprinkler Heads (21 13 13 00-0018)		
21 13 13 00-0020 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Upright Bronze Wet Pipe Sprinkler Head (Reliable F1FR 56 Upright).....	60.02	28.00
21 13 13 00-0021 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Upright Chrome Wet Pipe Sprinkler Head (Reliable F1FR 56 Upright).....	61.39	28.00
21 13 13 00-0022 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Upright White Wet Pipe Sprinkler Head (Reliable F1FR 56 Upright).....	62.26	28.00
21 13 13 00-0023 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Upright Bronze Wet Pipe Sprinkler Head (Reliable F1FR56-300 Upright).....	60.71	28.00
21 13 13 00-0024 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head (Reliable F1FR56-300 Upright).....	62.12	28.00
21 13 13 00-0025 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Upright White Wet Pipe Sprinkler Head (Reliable F1FR56-300 Upright).....	63.03	28.00
21 13 13 00-0026 EA 17/32" Orifice, 3/4" NPT Thread, Quick Response, Upright Bronze Wet Pipe Sprinkler Head (Reliable F1FR Upright).....	68.10	31.10
21 13 13 00-0027 EA 17/32" Orifice, 3/4" NPT Thread, Quick Response, Upright Chrome Wet Pipe Sprinkler Head (Reliable F1FR Upright).....	70.18	31.10
21 13 13 00-0028 EA 17/32" Orifice, 3/4" NPT Thread, Quick Response, Upright White Wet Pipe Sprinkler Head (Reliable F1FR Upright).....	70.60	31.10
21 13 13 00-0029 EA 17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Upright Bronze Wet Pipe Sprinkler Head (Reliable F1FR-300 Upright).....	68.10	31.10
21 13 13 00-0030 EA 17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head (Reliable F1FR-300 Upright).....	70.18	31.10
21 13 13 00-0031 EA 17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Upright White Wet Pipe Sprinkler Head (Reliable F1FR-300 Upright).....	70.60	31.10
21 13 13 00-0032 EA 3/8" Orifice, 1/2" NPT Thread, K=2.8, Upright Bronze Wet Pipe Sprinkler Head (Reliable F1FR 28 Upright).....	63.96	28.00
21 13 13 00-0033 EA 3/8" Orifice, 1/2" NPT Thread, K=2.8, Upright Chrome Wet Pipe Sprinkler Head (Reliable F1FR 28 Upright).....	65.32	28.00



Fire Suppression			21	21
Water-Based Fire-Suppression Systems			21 10	
Fire-Suppression Sprinkler Systems			21 13	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0034	EA	3/8" Orifice, 1/2" NPT Thread, K=2.8, Upright White Wet Pipe Sprinkler Head (Reliable F1FR 28 Upright).....	65.58	28.00	
21 13 13 00-0035	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Upright Bronze Wet Pipe Sprinkler Head (Reliable F1FR 42 Upright)	63.96	28.00	
21 13 13 00-0036	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Upright Chrome Wet Pipe Sprinkler Head (Reliable F1FR 42 Upright)	65.32	28.00	
21 13 13 00-0037	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Upright White Wet Pipe Sprinkler Head (Reliable F1FR 42 Upright).....	65.58	28.00	
21 13 13 00-0038	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Upright Bronze Wet Pipe Sprinkler Head (Reliable KFR 56 Upright)	60.02	28.00	
21 13 13 00-0039	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Upright Chrome Wet Pipe Sprinkler Head (Reliable KFR 56 Upright).....	61.39	28.00	
21 13 13 00-0040	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Upright White Wet Pipe Sprinkler Head (Reliable KFR 56 Upright)	62.26	28.00	
21 13 13 00-0041	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Upright Bronze Wet Pipe Sprinkler Head (Reliable KFR56-300)	60.71	28.00	
21 13 13 00-0042	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head (Reliable KFR56-300)	62.12	28.00	
21 13 13 00-0043	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Upright White Wet Pipe Sprinkler Head (Reliable KFR56-300)	63.03	28.00	
21 13 13 00-0044	EA	1/2" Orifice, 1/2" NPT Thread, Quick Response, Upright Bronze Wet Pipe Sprinkler Head (Reliable GFR Upright)	64.90	28.00	
21 13 13 00-0045	EA	1/2" Orifice, 1/2" NPT Thread, Quick Response, Upright Chrome Wet Pipe Sprinkler Head (Reliable GFR Upright).....	66.68	28.00	
21 13 13 00-0046	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Upright Bronze Wet Pipe Sprinkler Head (Reliable GFR Upright).....	74.53	31.10	
21 13 13 00-0047	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Upright Chrome Wet Pipe Sprinkler Head (Reliable GFR Upright).....	77.45	31.10	
21 13 13 00-0048	EA	3/8" Orifice, 1/2" NPT Thread, Quick Response, Upright Bronze Wet Pipe Sprinkler Head (Reliable GFR Upright).....	69.62	28.00	
21 13 13 00-0049	EA	3/8" Orifice, 1/2" NPT Thread, Quick Response, Upright Chrome Wet Pipe Sprinkler Head (Reliable GFR Upright).....	73.27	28.00	
21 13 13 00-0050	EA	7/16" Orifice, 1/2" NPT Thread, Quick Response, Upright Bronze Wet Pipe Sprinkler Head (Reliable GFR Upright).....	69.62	28.00	
21 13 13 00-0051	EA	7/16" Orifice, 1/2" NPT Thread, Quick Response, Upright Chrome Wet Pipe Sprinkler Head (Reliable GFR Upright).....	73.27	28.00	
21 13 13 00-0052	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Combustible Concealed Space, Upright Bronze Wet Pipe Sprinkler Head (Reliable KFR-CCS)	65.58	28.00	
21 13 13 00-0053 Conventional Wet-Pipe Sprinkler Heads (21 13 13 00-0018)					
21 13 13 00-0054	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Conventional Bronze Wet Pipe Sprinkler Head (Reliable F1FR 56 Conventional)	60.02	28.00	
21 13 13 00-0055	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Conventional Chrome Wet Pipe Sprinkler Head (Reliable F1FR 56 Conventional)	61.39	28.00	
21 13 13 00-0056	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Conventional White Wet Pipe Sprinkler Head (Reliable F1FR 56 Conventional)	62.26	28.00	
21 13 13 00-0057	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Conventional Bronze Wet Pipe Sprinkler Head (Reliable F1FR Conventional)	68.58	31.10	
21 13 13 00-0058	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Conventional Chrome Wet Pipe Sprinkler Head (Reliable F1FR Conventional)	70.18	31.10	
21 13 13 00-0059	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Conventional White Wet Pipe Sprinkler Head (Reliable F1FR Conventional)	70.43	31.10	
21 13 13 00-0060 Pendant Wet-Pipe Sprinkler Heads (21 13 13 00-0018)					
21 13 13 00-0061	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant Bronze Wet Pipe Sprinkler Head (Reliable KFR 56 Pendant).....	60.02	28.00	
21 13 13 00-0062	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant Chrome Wet Pipe Sprinkler Head (Reliable KFR 56 Pendant)	60.96	28.00	
21 13 13 00-0063	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant White Wet Pipe Sprinkler Head (Reliable KFR 56 Pendant).....	61.83	28.00	
21 13 13 00-0064	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant Bronze Wet Pipe Sprinkler Head (Reliable F1FR 56 Pendant).....	60.02	28.00	
21 13 13 00-0065	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant Chrome Wet Pipe Sprinkler Head (Reliable F1FR 56 Pendant)	61.39	28.00	
21 13 13 00-0066	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant White Wet Pipe Sprinkler Head (Reliable F1FR 56 Pendant).....	62.26	28.00	
21 13 13 00-0067	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Pendant Bronze Wet Pipe Sprinkler Head (Reliable F1FR Pendant).....	68.10	31.10	
21 13 13 00-0068	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Pendant Chrome Wet Pipe Sprinkler Head (Reliable F1FR Pendant).....	70.18	31.10	
21 13 13 00-0069	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Pendant White Wet Pipe Sprinkler Head (Reliable F1FR Pendant).....	70.60	31.10	
21 13 13 00-0070	EA	3/8" Orifice, 1/2" NPT Thread, K=2.8, Pendant Bronze Wet Pipe Sprinkler Head (Reliable F1FR 28 Pendant).....	63.96	28.00	
21 13 13 00-0071	EA	3/8" Orifice, 1/2" NPT Thread, K=2.8, Pendant Chrome Wet Pipe Sprinkler Head (Reliable F1FR 28 Pendant)	65.32	28.00	
21 13 13 00-0072	EA	3/8" Orifice, 1/2" NPT Thread, K=2.8, Pendant White Wet Pipe Sprinkler Head (Reliable F1FR 28 Pendant)	65.58	28.00	
21 13 13 00-0073	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Pendant Bronze Wet Pipe Sprinkler Head (Reliable F1FR 42 Pendant)	63.96	28.00	
21 13 13 00-0074	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Pendant Chrome Wet Pipe Sprinkler Head (Reliable F1FR 42 Pendant)	65.32	28.00	
21 13 13 00-0075	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Pendant White Wet Pipe Sprinkler Head (Reliable F1FR 42 Pendant)	65.58	28.00	
21 13 13 00-0076	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Pendant Bronze Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 42 LL Pendant).....	63.96	28.00	
21 13 13 00-0077	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Pendant Chrome Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 42 LL Pendant).....	65.32	28.00	
21 13 13 00-0078	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Pendant White Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 42 LL Pendant).....	65.58	28.00	
21 13 13 00-0079	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant Bronze Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 56 LL Pendant).....	60.02	28.00	
21 13 13 00-0080	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant Chrome Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 56 LL Pendant).....	61.39	28.00	
21 13 13 00-0081	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Pendant White Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 56 LL Pendant).....	62.26	28.00	
21 13 13 00-0082	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Pendant Bronze Wet Pipe Sprinkler Head (Reliable F1FR56-300 Pendant).....	60.71	28.00	
21 13 13 00-0083	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Pendant Chrome Wet Pipe Sprinkler Head (Reliable F1FR56-300 Pendant).....	61.68	28.00	
21 13 13 00-0084	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Pendant White Wet Pipe Sprinkler Head (Reliable F1FR56-300 Pendant).....	62.55	28.00	
21 13 13 00-0085	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Pendant Bronze Wet Pipe Sprinkler Head (Reliable F1FR-300 Pendant).....	69.38	31.10	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0086	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head (Reliable F1FR-300 Pendent).....	71.15	31.10
21 13 13 00-0087	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Pendent White Wet Pipe Sprinkler Head (Reliable F1FR-300 Pendent).....	71.15	31.10
21 13 13 00-0088	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Pendent Bronze Wet Pipe Sprinkler Head (Reliable KFR56-300 Pendent).....	60.71	28.00
21 13 13 00-0089	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head (Reliable KFR56-300 Pendent).....	61.68	28.00
21 13 13 00-0090	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Pendent White Wet Pipe Sprinkler Head (Reliable KFR56-300 Pendent).....	62.55	28.00
21 13 13 00-0091	EA	1/2" Orifice, 1/2" NPT Thread, Quick Response, Pendent Bronze Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	64.90	28.00
21 13 13 00-0092	EA	1/2" Orifice, 1/2" NPT Thread, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	66.68	28.00
21 13 13 00-0093	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Pendent Bronze Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	74.53	31.10
21 13 13 00-0094	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	77.45	31.10
21 13 13 00-0095	EA	3/8" Orifice, 1/2" NPT Thread, Quick Response, Pendent Bronze Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	69.35	28.00
21 13 13 00-0096	EA	3/8" Orifice, 1/2" NPT Thread, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	72.27	28.00
21 13 13 00-0097	EA	7/16" Orifice, 1/2" NPT Thread, Quick Response, Pendent Bronze Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	69.35	28.00
21 13 13 00-0098	EA	7/16" Orifice, 1/2" NPT Thread, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head (Reliable GFR Pendent).....	72.27	28.00
21 13 13 00-0099	EA	1/2" Orifice, 1/2" NPT Thread, Decorative Pendent Chrome Wet Pipe Sprinkler Head (Reliable XL Commerical R4514).....	87.33	28.00
21 13 13 00-0100	EA	1/2" Orifice, 1/2" NPT Thread, Decorative Pendent White Wet Pipe Sprinkler Head (Reliable XL Commerical R4514).....	87.33	28.00
21 13 13 00-0101	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable Chrome Coverplate (Reliable F4FR-NF).....	126.23	43.54
21 13 13 00-0102	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable White Coverplate (Reliable F4FR-NF).....	126.23	43.54
21 13 13 00-0103	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR 56 QREC Pendent).....	62.60	28.00
21 13 13 00-0104	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head (Reliable F1FR 56 QREC Pendent).....	64.13	28.00
21 13 13 00-0105	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Pendent White Wet Pipe Sprinkler Head (Reliable F1FR 56 QREC Pendent).....	64.93	28.00
21 13 13 00-0106	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Extended Coverage, Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR EC Pendent).....	68.74	31.10
21 13 13 00-0107	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head (Reliable F1FR EC Pendent).....	70.25	31.10
21 13 13 00-0108	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Extended Coverage, Pendent White Wet Pipe Sprinkler Head (Reliable F1FR EC Pendent).....	71.72	31.10
21 13 13 00-0109	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR56-300 QREC Pendent).....	63.46	28.00
21 13 13 00-0110	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head (Reliable F1FR56-300 QREC Pendent).....	64.96	28.00
21 13 13 00-0111	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Extended Coverage, Pendent White Wet Pipe Sprinkler Head (Reliable F1FR56-300 QREC Pendent).....	65.78	28.00
21 13 13 00-0112	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC Pendent).....	69.38	31.10
21 13 13 00-0113	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC Pendent).....	70.96	31.10
21 13 13 00-0114	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Extended Coverage, Pendent White Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC Pendent).....	72.48	31.10
21 13 13 00-0115		Sidewall Wet-Pipe Sprinkler Heads (21 13 13 00-0018)		
21 13 13 00-0116		Horizontal Sidewall Wet-Pipe Sprinkler Heads (21 13 13 00-0115)		
21 13 13 00-0117	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR 56 HSW).....	62.06	28.00
21 13 13 00-0118	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable F1FR 56 HSW).....	63.15	28.00
21 13 13 00-0119	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable F1FR 56 HSW).....	64.88	28.00
21 13 13 00-0120	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable KFR 56 HSW).....	62.06	28.00
21 13 13 00-0121	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable KFR 56 HSW).....	63.15	28.00
21 13 13 00-0122	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable KFR 56 HSW).....	64.88	28.00
21 13 13 00-0123	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR56-300 HSW).....	62.68	28.00
21 13 13 00-0124	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable F1FR56-300 HSW).....	63.79	28.00
21 13 13 00-0125	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable F1FR56-300 HSW).....	65.55	28.00
21 13 13 00-0126	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable KFR56-300 HSW).....	62.68	28.00
21 13 13 00-0127	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable KFR56-300 HSW).....	63.79	28.00



Fire Suppression		21	21
Water-Based Fire-Suppression Systems		21 10	
Fire-Suppression Sprinkler Systems		21 13	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0128	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable KFR56-300 HSW).....	65.55	28.00
21 13 13 00-0129	EA	1/2" Orifice, 1/2" NPT Thread, Quick Response, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable GFR HSW)	66.68	28.00
21 13 13 00-0130	EA	1/2" Orifice, 1/2" NPT Thread, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable GFR HSW)	68.46	28.00
21 13 13 00-0131	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable GFR HSW)	72.76	31.10
21 13 13 00-0132	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable GFR HSW)	75.42	31.10
21 13 13 00-0133	EA	3/8" Orifice, 1/2" NPT Thread, Quick Response, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable GFR HSW)	70.51	28.00
21 13 13 00-0134	EA	3/8" Orifice, 1/2" NPT Thread, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable GFR HSW)	72.27	28.00
21 13 13 00-0135	EA	7/16" Orifice, 1/2" NPT Thread, Quick Response, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable GFR HSW)	70.51	28.00
21 13 13 00-0136	EA	7/16" Orifice, 1/2" NPT Thread, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable GFR HSW)	72.27	28.00
21 13 13 00-0137	EA	1/2" Orifice, 1/2" NPT Thread, Decorative Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable XL Commerical R4534).....	97.15	28.00
21 13 13 00-0138	EA	1/2" Orifice, 1/2" NPT Thread, Decorative Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable XL Commerical R4534).....	97.15	28.00
21 13 13 00-0139	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR56 QREC EC8).....	61.13	28.00
21 13 13 00-0140	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable F1FR56 QREC EC8).....	62.03	28.00
21 13 13 00-0141	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable F1FR56 QREC EC8).....	63.16	28.00
21 13 13 00-0142	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Extended Coverage, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR QREC EC9)	67.37	31.10
21 13 13 00-0143	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable F1FR QREC EC9)	68.34	31.10
21 13 13 00-0144	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable F1FR QREC EC9)	69.38	31.10
21 13 13 00-0145	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC EC9)	68.14	31.10
21 13 13 00-0146	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC EC9).....	69.14	31.10
21 13 13 00-0147	EA	17/32" Orifice, 3/4" NPT Thread, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC EC9).....	70.22	31.10
21 13 13 00-0148	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable DH56 QREC).....	63.76	28.00
21 13 13 00-0149	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable DH56 QREC).....	65.41	28.00
21 13 13 00-0150	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable DH56 QREC).....	65.41	28.00
21 13 13 00-0151	EA	17/32" Orifice, 3/4" NPT Thread, K=8.0, Extended Coverage, Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable DH80)	70.24	31.10
21 13 13 00-0152	EA	17/32" Orifice, 3/4" NPT Thread, K=8.0, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head (Reliable DH80)	71.72	31.10
21 13 13 00-0153	EA	17/32" Orifice, 3/4" NPT Thread, K=8.0, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head (Reliable DH80)	71.72	31.10
21 13 13 00-0154		Vertical Sidewall Wet-Pipe Sprinkler Heads (21 13 13 00-0115)		
21 13 13 00-0155	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Vertical Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR56 VSW)	63.48	28.00
21 13 13 00-0156	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Vertical Sidewall Chrome Wet Pipe Sprinkler Head (Reliable F1FR56 VSW).....	64.84	28.00
21 13 13 00-0157	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Vertical Sidewall White Wet Pipe Sprinkler Head (Reliable F1FR56 VSW)	65.42	28.00
21 13 13 00-0158		Concealed Wet-Pipe Sprinkler Heads (21 13 13 00-0018)		
21 13 13 00-0159		Concealed Pendant Wet-Pipe Sprinkler Heads (21 13 13 00-0158)		
21 13 13 00-0160	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Concealed Pendent Bronze Wet Pipe Sprinkler Head, Low Lead (Reliable F1FR 56 LL CCP).....	88.95	37.33
		Note: Excludes coverplate		
21 13 13 00-0161	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR 56 CCP).....	72.99	37.33
		Note: Excludes coverplate		
21 13 13 00-0162	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR56-300 CCP).....	73.57	37.33
		Note: Excludes coverplate		
21 13 13 00-0163	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable KFR 56 CCP).....	72.99	37.33
		Note: Excludes coverplate		
21 13 13 00-0164	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable KFR56-300 CCP)	73.57	37.33
		Note: Excludes coverplate		
21 13 13 00-0165	EA	17/32" Orifice, 3/4" NPT Thread, K=8.0, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-80)	86.68	40.44
		Note: Excludes coverplate		
21 13 13 00-0166	EA	1/2" Orifice, 1/2" NPT Thread, K=5.6, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-56)	77.75	37.33
		Note: Excludes coverplate		
21 13 13 00-0167	EA	7/16" Orifice, 1/2" NPT Thread, K=4.2, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-42)	81.49	37.33
		Note: Excludes coverplate		

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0168 EA 3/8" Orifice, 1/2" NPT Thread, K=2.8, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-28) Note: Excludes coverplate	81.49	37.33
21 13 13 00-0169 EA 17/32" Orifice, 3/4" NPT Thread, K=8.0, Quick Response, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-80 QR) Note: Excludes coverplate	86.68	40.44
21 13 13 00-0170 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Quick Response, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-56 QR) Note: Excludes coverplate	77.75	37.33
21 13 13 00-0171 EA 7/16" Orifice, 1/2" NPT Thread, K=4.2, Quick Response, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-42 QR) Note: Excludes coverplate	81.49	37.33
21 13 13 00-0172 EA 3/8" Orifice, 1/2" NPT Thread, K=2.8, Quick Response, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-28 QR) Note: Excludes coverplate	81.49	37.33
21 13 13 00-0173 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Quick Response, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G5-56 300 QR) Note: Excludes coverplate	78.64	37.33
21 13 13 00-0174 EA 1/2" Orifice, 1" NPT Thread, K=5.6, Quick Response, Adjustable Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G4A) Note: Excludes coverplate	114.12	43.54
21 13 13 00-0175 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR56 QREC) Note: Excludes coverplate	75.89	37.33
21 13 13 00-0176 EA 17/32" Orifice, 3/4" NPT Thread, K=5.6, Extended Coverage, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR QREC) Note: Excludes coverplate	80.84	40.44
21 13 13 00-0177 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR56-300 QREC) Note: Excludes coverplate	76.42	37.33
21 13 13 00-0178 EA 17/32" Orifice, 3/4" NPT Thread, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable F1FR-300 QREC) Note: Excludes coverplate	81.61	40.44
21 13 13 00-0179 EA 17/32" Orifice, 3/4" NPT Thread, K=8.0, Extended Coverage, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable DH80 CCP) Note: Excludes coverplate	86.92	40.44
21 13 13 00-0180 EA 3/4" NPT Thread, Extended Coverage, Concealed Pendent Bronze Wet Pipe Sprinkler Head (Reliable G4 XLO- QR ECLH/ECOH) Note: Excludes coverplate	88.19	40.44
21 13 13 00-0181 Concealed Horizontal Side Wall Wet-Pipe Sprinkler Heads (21 13 13 00-0158)		
21 13 13 00-0182 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Quick Response, Concealed Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable G6-56 HSW QR) Note: Excludes coverplate	93.39	37.33
21 13 13 00-0183 EA 17/32" Orifice, 3/4" NPT Thread, K=8.0, Quick Response, Concealed Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable G6-80 HSW QR) Note: Excludes coverplate	103.78	40.44
21 13 13 00-0184 EA 1/2" Orifice, 1/2" NPT Thread, K=5.6, Extended Coverage, Concealed Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable DH56 QREC CCP) Note: Excludes coverplate	80.41	37.33
21 13 13 00-0185 EA 17/32" Orifice, 3/4" NPT Thread, K=8.0, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Bronze Wet Pipe Sprinkler Head (Reliable F1FR HSWQREC) Note: Excludes coverplate	83.63	40.44
21 13 13 00-0186 Institutional Tamper Resistant Wet-Pipe Sprinkler Heads (21 13 13 00-0018)		
21 13 13 00-0187 EA Institutional Tamper Resistant Pendant Sprinkler (Tyco TFP PH2) Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.	172.62	
21 13 13 00-0188 EA Institutional Tamper Resistant Horizontal Sidewall Sprinkler (Tyco TFP PH5) Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.	169.13	
21 13 13 00-0189 EA Institutional Tamper Resistant Pendant Sprinkler, Quick Response (Tyco Raven).....	88.77	
21 13 13 00-0190 EA Institutional Tamper Resistant Horizontal Sidewall Sprinkler, Quick Response (Tyco Raven)	96.01	
21 13 13 00-0191 Wet-Pipe Sprinkler Head Accessories (21 13 13 00-0011)		
21 13 13 00-0192 Sprinkler Adjustable Steel Drop Nipple (21 13 13 00-0191)		
21 13 13 00-0193 EA 1" Male NPT x 1/2" Female NPT x 4.125" Minimum Length To 5.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M1.150)	34.82	12.54
21 13 13 00-0194 EA 1" Male NPT x 1/2" Female NPT x 6.125" Minimum Length To 9.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M3.150)	34.82	12.54
21 13 13 00-0195 EA 1" Male NPT x 1/2" Female NPT x 7.875" Minimum Length To 10.875" Maximum Length, Adjustable Steel Drop Nipple (Anvil ME3.150)	35.10	12.54
21 13 13 00-0196 EA 1" Female NPT x 1/2" Female NPT x 3.5" Minimum Length To 4.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F1.150)	32.17	12.54
21 13 13 00-0197 EA 1" Female NPT x 1/2" Female NPT x 4.5" Minimum Length To 6.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F2.150)	32.17	12.54
21 13 13 00-0198 EA 1" Female NPT x 1/2" Female NPT x 5.5" Minimum Length To 8.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.150)	32.17	12.54
21 13 13 00-0199 EA 1" Female NPT x 3/4" Female NPT x 7.35" Minimum Length To 10.35" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.175)	35.64	13.62
21 13 13 00-0200 Sprinkler Head Escutcheon (21 13 13 00-0191)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0201	EA	2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon (Reliable GF1B).....	13.48	4.67
21 13 13 00-0202	EA	2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon (Reliable GF1C).....	10.60	4.67
21 13 13 00-0203	EA	2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon (Reliable GF1W).....	10.60	4.67
21 13 13 00-0204	EA	2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon (Reliable GF1LB).....	13.48	4.67
21 13 13 00-0205	EA	2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon (Reliable GF1LC).....	10.60	4.67
21 13 13 00-0206	EA	2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon (Reliable GF1LW).....	10.60	4.67
21 13 13 00-0207	EA	2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon (Reliable GF2B).....	12.96	4.67
21 13 13 00-0208	EA	2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon (Reliable GF2C).....	10.60	4.67
21 13 13 00-0209	EA	2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon (Reliable GF2W).....	10.60	4.67
21 13 13 00-0210	EA	2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon (Reliable GF2LB).....	12.96	4.67
21 13 13 00-0211	EA	2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon (Reliable GF2LC).....	10.60	4.67
21 13 13 00-0212	EA	2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon (Reliable GF2LW).....	10.60	4.67
21 13 13 00-0213	EA	3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off Chrome Sprinkler Head Recessed Escutcheon (Reliable FPC).....	13.22	4.67
21 13 13 00-0214	EA	3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off White Sprinkler Head Recessed Escutcheon (Reliable FPW).....	13.22	4.67
21 13 13 00-0215	EA	2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Brass Sprinkler Head Escutcheon (Reliable BB).....	6.35	3.42
21 13 13 00-0216	EA	2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon (Reliable BC).....	5.98	3.42
21 13 13 00-0217	EA	2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon (Reliable BW).....	6.08	3.42
21 13 13 00-0218	EA	2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Brass Sprinkler Head Escutcheon (Reliable BLB).....	6.41	3.42
21 13 13 00-0219	EA	2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Chrome Sprinkler Head Escutcheon (Reliable BLC).....	6.05	3.42
21 13 13 00-0220	EA	2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, White Sprinkler Head Escutcheon (Reliable BLW).....	6.05	3.42
21 13 13 00-0221	EA	2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Bright Brass Sprinkler Head Escutcheon (Reliable CBB).....	6.79	3.42
21 13 13 00-0222	EA	2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon (Reliable CC).....	6.04	3.42
21 13 13 00-0223	EA	2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon (Reliable CW).....	6.04	3.42
21 13 13 00-0224	EA	3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Telescoping Escutcheon (Reliable HBB).....	9.27	4.79
21 13 13 00-0225	EA	3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Telescoping Escutcheon (Reliable HBC).....	9.08	4.79
21 13 13 00-0226	EA	3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, White Sprinkler Head Telescoping Escutcheon (Reliable HBW).....	9.14	4.79
21 13 13 00-0227	EA	3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Telescoping Escutcheon (Reliable HBLB).....	9.34	4.79
21 13 13 00-0228	EA	3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Telescoping Escutcheon (Reliable HBLC).....	9.14	4.79
21 13 13 00-0229	EA	3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, White Sprinkler Head Telescoping Escutcheon (Reliable HBLW).....	9.27	4.79
21 13 13 00-0230	EA	Chrome Sprinkler Head Escutcheon For Model XL Flat (Reliable ZXFPC).....	15.60	4.67
21 13 13 00-0231	EA	White Sprinkler Head Escutcheon For Model XL Flat (Reliable ZXFPW).....	15.60	4.67
21 13 13 00-0232	EA	Chrome Sprinkler Head Escutcheon For Model XL Conical (Reliable ZXCPC).....	15.60	4.67
21 13 13 00-0233	EA	White Sprinkler Head Escutcheon For Model XL Conical (Reliable ZXCPCW).....	15.60	4.67
21 13 13 00-0234	EA	Chrome Sprinkler Head Escutcheon For Model XL HSW (Reliable ZXCHC).....	15.60	4.67
21 13 13 00-0235	EA	White Sprinkler Head Escutcheon For Model XL HSW (Reliable ZXCHW).....	15.60	4.67
21 13 13 00-0236	EA	2-Piece Chrome Sprinkler Head Escutcheon For Model XL Pendant (Reliable ZX2PC).....	17.39	4.67
21 13 13 00-0237	EA	2-Piece White Sprinkler Head Escutcheon For Model XL Pendant (Reliable ZX2PW).....	17.80	4.67

21 13 13 00-0238 Coverplate For Sprinkler Heads (21 13 13 00-0191)

21 13 13 00-0239	EA	Chrome Coverplate For Concealed Pendant Sprinkler Head (Reliable CCP0C76, CCP1C76).....	32.08	5.29
21 13 13 00-0240	EA	White Coverplate For Concealed Pendant Sprinkler Head (Reliable CCP0W76, CCP1W76).....	17.88	5.29
21 13 13 00-0241	EA	Specialty Coverplate For Concealed Pendant Sprinkler Head (Reliable CCP0SP76, CCP1SP76).....	24.04	5.29
21 13 13 00-0242	EA	Chrome Coverplate For Concealed Pendant Sprinkler Head (Reliable CCP0C76, CCP1C76).....	32.08	5.29
21 13 13 00-0243	EA	White Coverplate For Concealed Pendant Sprinkler Head (Reliable CCP0W76, CCP1W76).....	17.88	5.29
21 13 13 00-0244	EA	Specialty Coverplate For Concealed Pendant Sprinkler Head (Reliable CCP0SP76, CCP1SP76).....	24.04	5.29
21 13 13 00-0245	EA	White Coverplate For Concealed Sidewall Sprinkler Head (Reliable CHWNS).....	18.19	5.29
21 13 13 00-0246	EA	Specialty Coverplate For Concealed Sidewall Sprinkler Head (Reliable CHSPNS).....	22.87	5.29
21 13 13 00-0247	EA	Brass Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG60B).....	22.64	5.29
21 13 13 00-0248	EA	Chrome Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG60C).....	18.82	5.29
21 13 13 00-0249	EA	White Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG60W).....	18.82	5.29
21 13 13 00-0250	EA	Specialty Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG60SP).....	23.36	5.29
21 13 13 00-0251	EA	Brass Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40B, CG41B).....	22.44	5.29
21 13 13 00-0252	EA	Chrome Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40C, CG41C).....	18.82	5.29
21 13 13 00-0253	EA	White Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40W, CG41W).....	18.82	5.29
21 13 13 00-0254	EA	Off-White Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40OW, CG41OW).....	22.44	5.29
21 13 13 00-0255	EA	Black Painted Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40FB, CG41FB).....	22.44	5.29
21 13 13 00-0256	EA	Black Plated Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40BP, CG41BP).....	25.31	5.29
21 13 13 00-0257	EA	Bright Brass Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40BB, CG41BB).....	25.31	5.29
21 13 13 00-0258	EA	Satin Chrome Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40CD, CG41CD).....	25.31	5.29
21 13 13 00-0259	EA	Specialty Coverplate For Concealed Sidewall Sprinkler Head (Reliable CG40SP, CG41SP).....	22.46	5.29
21 13 13 00-0260	EA	White Coverplate For Quick Release Concealed Sidewall Sprinkler Head (Reliable CG5SOW).....	35.96	6.22

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0261 Sprinkler Escutcheon Extension Tube (21 13 13 00-0191)		
21 13 13 00-0262 EA 2.18" Diameter x 4" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	9.69	3.11
Note: For use with 2 piece escutcheons		
21 13 13 00-0263 EA 2.18" Diameter x 6" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	11.94	3.27
Note: For use with 2 piece escutcheons		
21 13 13 00-0264 EA 2.18" Diameter x 8" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	14.45	3.42
Note: For use with 2 piece escutcheons		
21 13 13 00-0265 EA 2.18" Diameter x 10" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	16.71	3.58
Note: For use with 2 piece escutcheons		
21 13 13 00-0266 Sprinkler Head Guards (21 13 13 00-0191)		
21 13 13 00-0267 EA Universal Sprinkler Head Guard (Reliable C-1)	18.42	9.33
21 13 13 00-0268 EA Dry Pendent Sprinkler Head Guard (Reliable C-2)	19.53	9.33
21 13 13 00-0269 EA Upright Sprinkler Head Guard With Water Shield (Reliable C-3)	21.42	9.33
21 13 13 00-0270 EA Pendent Sprinkler Head Guard With Water Shield (Reliable C-5)	23.76	9.33
21 13 13 00-0271 EA Universal Sprinkler Head Guard (Reliable D-1)	19.49	9.33
21 13 13 00-0272 EA Upright Sprinkler Head Guard With Water Shield (Reliable D-3)	20.21	9.33
21 13 13 00-0273 EA Pendent Sprinkler Head Guard With Large Water Shield (Reliable D-4)	25.56	9.33
21 13 13 00-0274 EA Pendent Sprinkler Head Guard With Small Water Shield (Reliable D-5)	24.49	9.33
21 13 13 00-0275 Flexible Sprinkler Piping (21 13 13 00-0011)		
Note: 1" Diameter stainless steel flexible pipe with either 1/2" or 3/4" outlet.		
21 13 13 00-0276 EA 2' Long Stainless Steel Flexible Sprinkler Piping	59.14	16.07
Note: Includes ceiling mounting bracket.		
21 13 13 00-0277 EA 3' Long Stainless Steel Flexible Sprinkler Piping	64.92	16.59
Note: Includes ceiling mounting bracket.		
21 13 13 00-0278 EA 4' Long Stainless Steel Flexible Sprinkler Piping	70.87	17.63
Note: Includes ceiling mounting bracket.		
21 13 13 00-0279 EA 5' Long Stainless Steel Flexible Sprinkler Piping	77.06	18.66
Note: Includes ceiling mounting bracket.		
21 13 13 00-0280 EA 6' Long Stainless Steel Flexible Sprinkler Piping	83.51	20.74
Note: Includes ceiling mounting bracket.		
21 13 16 Dry-Pipe Sprinkler Systems (21 13)		
21 13 16 00-0001 Complete Dry-Pipe Sprinkler Systems (21 13 16)		
Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks.		
21 13 16 00-0002 Light Hazard, Dry-Pipe Sprinkler Systems (21 13 16 00-0001)		
21 13 16 00-0003 EA Exposed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head.....	390.17	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	185.18	
For >5 To 10, Add	111.80	
For >10 To 20, Add	82.69	
For >20 To 40, Add	34.07	
For >100 To 150, Deduct	-39.02	
For >150, Deduct	-78.03	
For Copper Pipe, Add	43.97	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-63.48	
21 13 16 00-0004 EA Concealed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head.....	502.83	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	240.63	
For >5 To 10, Add	149.02	
For >10 To 20, Add	109.52	
For >20 To 40, Add	44.89	
For >100 To 150, Deduct	-50.28	
For >150, Deduct	-100.57	
For Copper Pipe, Add	55.68	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-80.82	
21 13 16 00-0005 Ordinary Hazard, Dry-Pipe Sprinkler Systems (21 13 16 00-0001)		
21 13 16 00-0006 EA Exposed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head.....	392.34	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	185.69	
For >5 To 10, Add	111.11	
For >10 To 20, Add	82.36	
For >20 To 40, Add	33.99	
For >100 To 150, Deduct	-39.23	
For >150, Deduct	-78.47	
For Copper Pipe, Add	44.48	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-64.09	



Fire Suppression			21
Water-Based Fire-Suppression Systems			21 10
Fire-Suppression Sprinkler Systems			21 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0007	EA		Concealed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon. For Up To 5, Add For >5 To 10, Add For >10 To 20, Add For >20 To 40, Add For >100 To 150, Deduct For >150, Deduct For Copper Pipe, Add For Polyvinyl Chloride (PVC) Pipe, Deduct	502.85 240.16 147.83 108.81 44.65 -50.29 -100.57 55.92 -81.06	
21 13 16 00-0008			Extra Hazard, Dry-Pipe Sprinkler Systems (21 13 16 00-0001)		
21 13 16 00-0009	EA		Exposed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head Note: Includes branch pipe and fittings, supports and sprinkler heads. For Up To 5, Add For >5 To 10, Add For >10 To 20, Add For >20 To 40, Add For >100 To 150, Deduct For >150, Deduct For Copper Pipe, Add For Polyvinyl Chloride (PVC) Pipe, Deduct	367.24 173.69 103.70 76.91 31.76 -36.72 -73.45 41.69 -60.05	
21 13 16 00-0010	EA		Concealed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon. For Up To 5, Add For >5 To 10, Add For >10 To 20, Add For >20 To 40, Add For >100 To 150, Deduct For >150, Deduct For Copper Pipe, Add For Polyvinyl Chloride (PVC) Pipe, Deduct	468.20 223.62 137.68 101.33 41.58 -46.82 -93.64 52.06 -75.47	
21 13 16 00-0011			Dry-Pipe Sprinkler System Equipment (21 13 16 00-0001)		
21 13 16 00-0012	EA		Dry System Air Compressor, 3/4 HP With Alarm Valve Flange With Gauge	1,455.96	300.66
21 13 16 00-0013	EA		Dry System Air Compressor, 1 HP With Alarm Valve Flange With Gauge	1,506.99	300.66
21 13 16 00-0014	EA		Dry System Air Compressor, 1-1/2 HP With Alarm Valve Flange With Gauge	1,550.04	300.66
21 13 16 00-0015	EA		Dry System Air Compressor, 2 HP With Alarm Valve Flange With Gauge	1,717.47	300.66
21 13 16 00-0016			Dry-Pipe Sprinkler System Components (21 13 16)		
			Note: Excludes hydraulic calculations.		
21 13 16 00-0017			Dry Pipe Alarm Valves (21 13 16 00-0016)		
21 13 16 00-0018	EA		2" Dry Pipe Alarm Valve	1,619.48	772.19
21 13 16 00-0019	EA		3" Dry Pipe Alarm Valve	2,181.14	1,054.09
21 13 16 00-0020	EA		4" Dry Pipe Alarm Valve	3,809.12	1,475.73
21 13 16 00-0021	EA		6" Dry Pipe Alarm Valve	4,729.88	1,743.63
21 13 16 00-0022	EA		8" Dry Pipe Alarm Valve	5,743.87	1,918.00
21 13 16 00-0023			Recessed Pendent Dry Pipe Sprinkler Heads, Quick Response (21 13 16 00-0016)		
			Note: (Reliable F3QR H9)		
21 13 16 00-0024	EA		3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	138.01	34.11
21 13 16 00-0025	EA		6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	142.38	34.11
21 13 16 00-0026	EA		9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	146.75	34.11
21 13 16 00-0027	EA		12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	151.13	34.11
21 13 16 00-0028	EA		15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	155.49	34.11
21 13 16 00-0029	EA		18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	159.86	34.11
21 13 16 00-0030	EA		21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	164.23	34.11
21 13 16 00-0031	EA		24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	168.61	34.11
21 13 16 00-0032	EA		27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	172.97	34.11
21 13 16 00-0033	EA		30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	177.34	34.11
21 13 16 00-0034	EA		33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	181.72	34.11
21 13 16 00-0035	EA		36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	186.09	34.11
21 13 16 00-0036	EA		39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	190.47	34.11
21 13 16 00-0037	EA		42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	194.83	34.11
21 13 16 00-0038	EA		45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	199.20	34.11
21 13 16 00-0039			Sidewall Dry Pipe Sprinkler Heads, Quick Response (21 13 16 00-0016)		
			Note: (Reliable F3QR H4)		
21 13 16 00-0040	EA		3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	136.96	34.11
21 13 16 00-0041	EA		6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	141.33	34.11
21 13 16 00-0042	EA		9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	145.71	34.11
21 13 16 00-0043	EA		12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	150.07	34.11
21 13 16 00-0044	EA		15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	154.45	34.11
21 13 16 00-0045	EA		18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	158.81	34.11
21 13 16 00-0046	EA		21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	163.19	34.11
21 13 16 00-0047	EA		24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	167.56	34.11
21 13 16 00-0048	EA		27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	171.92	34.11

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0049 EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	176.29	34.11
21 13 16 00-0050 EA 33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	180.67	34.11
21 13 16 00-0051 EA 36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	185.04	34.11
21 13 16 00-0052 EA 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	198.15	34.11
21 13 16 00-0053 EA 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	202.53	34.11
21 13 16 00-0054 EA 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	204.27	34.11
21 13 19 Preaction Sprinkler Systems (21 13)		
21 13 19 00-0001 Complete Preaction Sprinkler Systems (21 13 19)		
Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks.		
21 13 19 00-0002 Ordinary Hazard, Preaction Sprinkler Systems (21 13 19 00-0001)		
21 13 19 00-0003 EA Exposed Piping, Ordinary Hazard, Preaction Sprinkler System, Per Head.....	377.72	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	179.84	
For >5 To 10, Add	118.67	
For >10 To 20, Add	80.90	
For >20 To 40, Add	33.26	
For >100 To 150, Deduct	-37.77	
For >150, Deduct	-75.54	
21 13 19 00-0004 Extra Hazard, Preaction Sprinkler Systems (21 13 19 00-0001)		
21 13 19 00-0005 EA Exposed Piping, Extra Hazard, Preaction Sprinkler System, Per Head.....	351.79	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	167.51	
For >5 To 10, Add	110.55	
For >10 To 20, Add	75.37	
For >20 To 40, Add	30.99	
For >100 To 150, Deduct	-35.18	
For >150, Deduct	-70.36	
21 13 26 Deluge Fire-Suppression Sprinkler Systems (21 13)		
21 13 26 00-0001 Deluge Fire-Suppression Sprinkler Systems Equipment (21 13 26)		
See CSI section 23 21 13 23-0000 for pipe and fittings.		
21 13 26 00-0002 Deluge Fire-Suppression Sprinkler System Nozzles (21 13 26 00-0001)		
21 13 26 00-0003 EA 3/8" Auto Deluge Sprinkler Nozzle.....	95.49	44.48
21 13 26 00-0004 EA 1/2" Pendant Deluge Spring Nozzle With Open Head	95.49	44.48
21 13 26 00-0005 EA 1/2" Pendant Deluge Spring Nozzle Open Head With Canopy	95.49	44.48
21 13 26 00-0006 Deluge Valves With Required Trim And Release Equipment (21 13 26 00-0001)		
21 13 26 00-0007 EA 3" Deluge Valve With Trim And Release Equipment	4,277.83	576.08
21 13 26 00-0008 EA 4" Deluge Valve With Trim And Release Equipment	4,894.63	648.03
21 13 26 00-0009 EA 6" Deluge Valve With Trim And Release Equipment	6,186.62	942.60
21 13 39 Foam-Water Systems (21 13)		
21 13 39 00-0001 Foam Control Valves And Monitors (21 13 39)		
21 13 39 00-0002 Control Valves (21 13 39 00-0001)		
21 13 39 00-0003 EA 3" Foam Control Valve.....	2,286.19	576.08
21 13 39 00-0004 Supply Valves (21 13 39 00-0001)		
21 13 39 00-0005 EA 2-1/2" Foam Supply Valve	2,178.17	648.03
21 13 39 00-0006 Proportioners (21 13 39 00-0001)		
21 13 39 00-0007 EA 8" Foam Proportioner.....	2,167.19	942.60
21 13 39 00-0008 Monitors (21 13 39 00-0001)		
21 13 39 00-0009 EA Oscillating Foam Monitor	1,948.37	129.61
21 13 41 Fire-Suppression Sprinkler Piping (21 13)		
See CSI section 23 21 13 23-0000 for black steel piping.		
21 13 41 00-0001 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41)		
Note: SDR 13.5		



Fire Suppression			21
Water-Based Fire-Suppression Systems			21 10
Fire-Suppression Sprinkler Systems			21 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0002 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41 00-0001)		
21 13 41 00-0003 LF 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	4.89	1.66
21 13 41 00-0004 LF 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	5.60	1.76
21 13 41 00-0005 LF 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	6.69	1.97
21 13 41 00-0006 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	7.89	2.18
21 13 41 00-0007 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	9.68	2.38
21 13 41 00-0008 LF 2-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	12.55	2.70
21 13 41 00-0009 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	16.80	3.22
21 13 41 00-0010 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0011 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	25.87	9.96
21 13 41 00-0012 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	33.32	12.44
21 13 41 00-0013 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	41.67	15.56
21 13 41 00-0014 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	46.92	17.22
21 13 41 00-0015 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	52.84	19.29
21 13 41 00-0016 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	63.83	21.88
21 13 41 00-0017 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	77.06	25.93
21 13 41 00-0018 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0019 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	26.21	9.96
21 13 41 00-0020 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	32.77	12.44
21 13 41 00-0021 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	41.26	15.56
21 13 41 00-0022 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	46.26	17.22
21 13 41 00-0023 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	52.01	19.29
21 13 41 00-0024 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	61.74	21.88
21 13 41 00-0025 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	74.76	25.93
21 13 41 00-0026 Chlorinated Polyvinyl Chloride (CPVC) Tees, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0027 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	38.65	14.93
21 13 41 00-0028 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	49.47	18.77
21 13 41 00-0029 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	62.41	23.43
21 13 41 00-0030 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	70.48	25.93
21 13 41 00-0031 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	80.72	28.82
21 13 41 00-0032 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	96.03	32.86
21 13 41 00-0033 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	113.47	38.78
21 13 41 00-0034 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0035 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	45.87	17.52
21 13 41 00-0036 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	58.61	21.88
21 13 41 00-0037 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	65.29	24.16
21 13 41 00-0038 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	75.27	26.96
21 13 41 00-0039 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	87.44	30.69
21 13 41 00-0040 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	103.11	36.18
21 13 41 00-0041 Chlorinated Polyvinyl Chloride (CPVC) Crosses, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0042 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	51.86	19.91
21 13 41 00-0043 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	65.03	24.99
21 13 41 00-0044 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	81.59	31.20
21 13 41 00-0045 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	91.20	34.52
21 13 41 00-0046 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	104.36	38.47
21 13 41 00-0047 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	127.23	43.75
21 13 41 00-0048 Chlorinated Polyvinyl Chloride (CPVC) Couplings, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0049 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	17.53	6.64
21 13 41 00-0050 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	23.51	8.92
21 13 41 00-0051 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	31.02	11.72
21 13 41 00-0052 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	34.89	12.96
21 13 41 00-0053 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	39.52	14.41
21 13 41 00-0054 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	46.32	16.38
21 13 41 00-0055 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	55.38	19.39
21 13 41 00-0056 Chlorinated Polyvinyl Chloride (CPVC) Caps, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0057 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	8.86	3.32
21 13 41 00-0058 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	14.17	5.39
21 13 41 00-0059 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	15.91	5.80
21 13 41 00-0060 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	17.95	6.43
21 13 41 00-0061 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	20.72	7.26

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0062 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	24.40	8.20
21 13 41 00-0063 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping.....	30.54	9.74
21 13 41 00-0064 Chlorinated Polyvinyl Chloride (CPVC) Reducer Bushing, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0065 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	25.31	9.85
21 13 41 00-0066 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	33.32	12.85
21 13 41 00-0067 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	36.85	14.21
21 13 41 00-0068 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	41.59	15.87
21 13 41 00-0069 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	48.43	18.04
21 13 41 00-0070 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	58.27	21.36
21 13 41 00-0071 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip x Female Pipe Thread, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0072 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping.....	20.68	7.26
21 13 41 00-0073 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping.....	27.16	9.85
21 13 41 00-0074 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0075 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	20.68	7.26
21 13 41 00-0076 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	27.16	9.85
21 13 41 00-0077 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0078 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	24.67	8.92
21 13 41 00-0079 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	31.27	11.20
21 13 41 00-0080 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 3/4" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	31.97	11.20
21 13 41 00-0081 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0082 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	40.77	14.93
21 13 41 00-0083 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	50.58	18.77
21 13 41 00-0084 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	64.67	23.43
21 13 41 00-0085 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	72.88	25.93
21 13 41 00-0086 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	83.64	28.82
21 20 Fire-Extinguishing Systems (21)		
21 21 Carbon-Dioxide Fire-Extinguishing Systems (21 20)		
21 21 16 Carbon-Dioxide Fire-Extinguishing Equipment (21 21)		
21 21 16 00-0001 Carbon Dioxide Cylinders (21 21 16)		
21 21 16 00-0002 EA Carbon Dioxide Simplex Cylinder, 75 LB.....	1,087.23	225.64
21 21 16 00-0003 EA Carbon Dioxide Duplex Cylinder, 75 LB (Each).....	2,174.46	451.28
21 21 16 00-0004 EA Carbon Dioxide Cylinder, Heat/Ion Detector, With Bracket.....	222.22	110.13
21 21 16 00-0005 EA Carbon Dioxide Cylinder, Dispersion Nozzle.....	93.97	41.24
21 21 16 00-0006 LF Carbon Dioxide Cylinder, 1/2" Rubber Tubing.....	29.71	16.72
21 22 Clean-Agent Fire-Extinguishing Systems (21 20)		
21 22 16 Clean-Agent Fire-Extinguishing Equipment (21 22)		
21 22 16 00-0001 Ansul Fire Control Systems (21 22 16)		
21 22 16 00-0002 Sapphire® Fire Suppression Systems (21 22 16 00-0001) Note: ANSUL® SAPPHIRE® fire suppression systems use 3M™ Novec™ 1230 fire protection fluid for total flooding applications.		
21 22 16 00-0003 Cylinders, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0004 EA 20 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570635).....	1,231.32	76.93
Note: 10 to 21 LB tank capacity. Excludes Sapphire agent.		



Fire Suppression			21
Fire-Extinguishing Systems			21 20
Clean-Agent Fire-Extinguishing Systems			21 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0005 EA 40 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636).....	1,399.30	76.93
Note: 20 to 46 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0006 EA 80 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570637).....	1,421.39	76.93
Note: 41 to 80 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0007 EA 140 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638).....	2,014.77	102.56
Note: 58 to 138 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0008 EA 280 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570639).....	2,125.82	102.56
Note: 116 to 280 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0009 EA 390 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570640).....	2,280.28	128.21
Note: 161 to 388 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0010 EA 450 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641).....	2,415.68	128.21
Note: 194 to 459 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0011 EA 850 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570586).....	3,626.83	153.84
Note: 375 to 851 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0012 LB Sapphire Agent, Fire Protection Fluid, Factory Filled (Novec 1230)	30.00	153.84
Note: Add to empty tank cost.		
21 22 16 00-0013 Nozzles, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0014 EA 1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570515)	120.22	12.82
21 22 16 00-0015 EA 3/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570516)	123.08	12.82
21 22 16 00-0016 EA 1" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570517)	130.25	12.82
21 22 16 00-0017 EA 1-1/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570518)	135.27	12.82
21 22 16 00-0018 EA 1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519)	142.43	12.82
21 22 16 00-0019 EA 2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570520)	163.91	12.82
21 22 16 00-0020 EA 1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570602)	120.22	12.82
21 22 16 00-0021 EA 3/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570603)	123.08	12.82
21 22 16 00-0022 EA 1" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570604)	130.25	12.82
21 22 16 00-0023 EA 1-1/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570605)	135.27	12.82
21 22 16 00-0024 EA 1-1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570606)	142.43	12.82
21 22 16 00-0025 EA 2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570607)	163.91	12.82
21 22 16 00-0026 Actuation Attachments, Sapphire® Fire Suppression System (21 22 16 00-0002)		
21 22 16 00-0027 EA 7/16-20 To 1/4" NPT, Male Actuation Elbow, Sapphire® Fire Suppression System (Ansul 31810).....	12.11	3.85
21 22 16 00-0028 EA 7/16-20 To 1/4" NPT, Male Actuation Tee, Sapphire® Fire Suppression System (Ansul 31811)	13.34	3.85
21 22 16 00-0029 EA 1/4" NPT To 7/16-20, Male Actuation Connector, Sapphire® Fire Suppression System (Ansul 32338).....	19.95	8.98
21 22 16 00-0030 EA 16" Actuation Hose, Sapphire® Fire Suppression System (Ansul 73597)	42.43	11.49
21 22 16 00-0031 EA 32" Actuation Hose, Sapphire® Fire Suppression System (Ansul 415142)	60.22	11.49
21 22 16 00-0032 EA 42" Actuation Hose, Sapphire® Fire Suppression System (Ansul 430815)	71.56	11.49
21 22 16 00-0033 EA 24", Stainless Steel, Swivel, Braided Actuation Hose, Sapphire® Fire Suppression System (Ansul 32336).....	38.34	11.49
21 22 16 00-0034 EA Pneumatic Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537)	277.48	102.56
21 22 16 00-0035 EA Local Manual Actuator, Sapphire® Fire Suppression System (Ansul 570549).....	257.00	76.93
21 22 16 00-0036 EA Electric Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537)	543.99	102.56
21 22 16 00-0037 Nameplates, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0038 EA Warning Plate For Use Outside Room, Sapphire® Fire Suppression Systems (Ansul 570580).....	42.84	12.82
21 22 16 00-0039 EA Warning Plate for Use Inside Room, Sapphire® Fire Suppression Systems (Ansul 570581).....	46.08	12.82
21 22 16 00-0040 Cylinder Bracketing, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0041 EA Tank Bracket Assembly For 20 LB, 40 LB, 50 LB, 80 LB And 90 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)	131.38	38.46
21 22 16 00-0042 EA Tank Bracket Assembly For 140 LB, 280 LB, 390 LB And 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085)	137.83	38.46
21 22 16 00-0043 EA Tank Bracket Assembly For 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570336).....	146.07	38.46
21 22 16 00-0044 Check Valves, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0045 EA 1" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570566).....	318.00	40.82
21 22 16 00-0046 EA 2" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570568).....	450.83	70.05
21 22 16 00-0047 Discharge Hose, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0048 EA 1" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570539).....	107.88	25.65
21 22 16 00-0049 EA 2" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570538).....	371.52	25.65
21 22 16 00-0050 EA 3" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 69990).....	314.92	25.65
21 22 16 00-0051 EA 3" Discharge Hose And Check Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 69841)	1,371.44	102.56
21 22 16 00-0052 Swivel Adaptors, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0053 EA 1" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570557).....	40.41	17.94
21 22 16 00-0054 EA 2" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570558).....	67.20	17.94
21 22 16 00-0055 EA 3" Flare To 3" Grooved, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69471)	176.10	12.82
21 22 16 00-0056 EA 3" Flare To 3" NPT, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69470).....	229.45	12.82
21 22 16 00-0057 Pressure Switches, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0058 EA Cylinder Low Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 570585)	150.20	51.28

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0059 EA Pressure Trip, Sapphire® Fire Suppression Systems (Ansul 5156)	136.93	21.53
21 22 16 00-0060 EA Weather Proof, DPST Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 46250).....	432.38	89.74
21 22 16 00-0061 Level Indicators, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0062 EA Liquid Level Indicator For 280 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570277).....	464.31	17.94
21 22 16 00-0063 EA Liquid Level Indicator For 390 LB And 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570278)	485.81	17.94
21 22 16 00-0064 EA Liquid Level Indicator For 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570589).....	523.39	25.65
21 22 16 00-0065 Inspection/Maintenance Devices, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0066 EA Master Tank Pilot Port Male Adaptor, Sapphire® Fire Suppression Systems (Ansul 570342)	42.23	15.38
21 22 16 00-0067 EA Cylinder Valve Pressure Gauge, Sapphire® Fire Suppression Systems (Ansul 570642).....	52.30	17.94
21 22 16 00-0068 EA Recharge Top Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570579)	182.64	76.93
21 22 16 00-0069 EA 1" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570576).....	207.21	76.93
21 22 16 00-0070 EA 2" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570592).....	227.63	76.93
21 22 16 00-0071 EA 3" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 69891).....	293.54	76.93
21 22 16 00-0072 Replacement Parts, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0073 EA O-Ring Kit, Sapphire® Fire Suppression Systems (Ansul 570559)	51.34	20.51
21 22 16 00-0074 EA Recoil Cap, Sapphire® Fire Suppression Systems (Ansul 570553)	74.72	12.82
21 22 16 00-0075 EA Burst Disc Assembly, Sapphire® Fire Suppression Systems (Ansul 570053)	104.66	25.65
21 22 16 00-0076 EA Bonnet Assembly, Sapphire® Fire Suppression Systems (Ansul 570543)	292.53	102.56
21 22 16 00-0077 EA Piston Assembly, Sapphire® Fire Suppression Systems (Ansul 570551)	417.89	102.56
21 22 16 00-0078 EA 1" Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570535)	1,296.92	102.56
21 22 16 00-0079 Inergen® Fire Suppression System (21 22 16 00-0001)		
21 22 16 00-0080 Actuation Attachments, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0081 EA Flexible Discharge Bend For CV90 And CV98 (200 Bar), Inergen® Fire Suppression System (Ansul 427082).....	146.12	25.41
21 22 16 00-0082 EA Metron Protractor Replacement Cartridges, Inergen® Fire Suppression System (Ansul 423958).....	168.95	27.31
21 22 16 00-0083 EA Electric Actuator, Lever, CV98, Inergen® Fire Suppression System (Ansul 423309).....	302.37	49.44
21 22 16 00-0084 EA Electric Actuator For CV90 Valve, Inergen® Fire Suppression System (Ansul 426876).....	614.27	112.58
21 22 16 00-0085 Check Valves, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0086 EA 2" Bronze Check Valve, Weld Neck Flange, Inergen® Fire Suppression System (Ansul 840794)	1,447.51	178.12
21 22 16 00-0087 Components, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0088 EA 1/2" Manifold Relief Valve, Inergen® Fire Suppression System (Ansul 418378).....	43.52	7.79
21 22 16 00-0089 EA Pressure Operated Siren, Inergen® Fire Suppression System (Ansul 419700)	508.01	83.48
21 22 16 00-0090 EA 30 Second Pneumatic Time Delay, Inergen® Fire Suppression System (Ansul 54169).....	1,582.04	261.22
21 22 16 00-0091 EA 60 Second Time Delay, Inergen® Fire Suppression System (Ansul 426170).....	1,515.88	266.13
21 22 16 00-0092 Cylinders, Inergen® Fire Suppression System (21 22 16 00-0079)		
Note: Includes CV98 valve. Factory filled with Inergen agent.		
21 22 16 00-0093 EA 200 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426147)	1,329.23	239.08
21 22 16 00-0094 EA 250 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426148)	1,507.77	270.86
21 22 16 00-0095 EA 350 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426620)	2,140.24	351.01
21 22 16 00-0096 EA 435 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426150)	2,159.38	428.91
21 22 16 00-0097 EA 250 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426257).....	1,569.82	302.01
21 22 16 00-0098 EA 350 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426621).....	2,202.74	382.27
21 22 16 00-0099 EA 435 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426259).....	2,304.91	460.91
21 22 16 00-0100 Inspection/Maintenance Devices, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0101 EA CV90 Fill Adaptor To CV98 Valve, Conversion Adapter, Inergen® Fire Suppression System (Ansul 423657)	50.06	8.69
21 22 16 00-0102 EA CV98 To CV90 Conversion Adapter, Cylinder Test Gauge, Inergen® Fire Suppression System (Ansul 426181).....	50.06	8.69
21 22 16 00-0103 EA CV90 Pressure Test Assembly Venting Kit, Inergen® Fire Suppression System (Ansul 426954).....	59.98	9.66
21 22 16 00-0104 EA Pressure Test Gauge, Inergen® Fire Suppression System (Ansul 423923).....	953.91	165.89
21 22 16 00-0105 Multiple Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0106 EA 13" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418502).....	15.94	2.54
Note: For single row 435 cubic foot cylinders.		
21 22 16 00-0107 EA 27" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418503).....	22.64	3.63
Note: For double row 435 cubic foot cylinders.		
21 22 16 00-0108 Nameplates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0109 EA Warning Plate, Nameplate, Inside Room With Alarm, Inergen® Fire Suppression System (Ansul 416265).....	17.59	2.84
21 22 16 00-0110 EA Warning Plate, Nameplate, Outside Room Without Alarm, Inergen® Fire Suppression System (Ansul 416266).....	16.36	2.84



Fire Suppression		21
Fire-Extinguishing Systems		21 20
Clean-Agent Fire-Extinguishing Systems		21 22

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0111 Nozzle Deflector Shields, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0112 EA 1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417708)	71.06	12.24
21 22 16 00-0113 EA 3/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417711)	74.60	12.82
21 22 16 00-0114 EA 1" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417714)	86.58	14.81
21 22 16 00-0115 EA 1-1/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417717)	96.64	16.72
21 22 16 00-0116 EA 1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720)	110.84	19.23
21 22 16 00-0117 Nozzles, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0118 EA 1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417908)	108.95	18.95
21 22 16 00-0119 EA 3/8" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417723)	112.97	19.50
21 22 16 00-0120 EA 1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417362)	104.21	18.05
21 22 16 00-0121 EA 3/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417363)	107.24	19.50
21 22 16 00-0122 EA 1" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417364)	123.87	21.46
21 22 16 00-0123 EA 1-1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417365)	132.40	22.85
21 22 16 00-0124 EA 1-1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417366)	142.59	24.52
21 22 16 00-0125 EA 2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426155)	245.60	42.91
21 22 16 00-0126 EA 2-1/2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426156)	324.69	56.29
21 22 16 00-0127 EA 3" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426137)	354.09	61.86
21 22 16 00-0128 EA 1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426138)	126.94	22.28
21 22 16 00-0129 EA 3/8" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426139)	149.67	26.09
21 22 16 00-0130 EA 1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426140)	123.14	21.46
21 22 16 00-0131 EA 3/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426141)	131.47	22.74
21 22 16 00-0132 EA 1" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426142)	132.63	22.85
21 22 16 00-0133 EA 1-1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426143)	160.11	27.75
21 22 16 00-0134 EA 1-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426157)	172.65	30.09
21 22 16 00-0135 EA 2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426144)	265.02	46.18
21 22 16 00-0136 EA 2-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426145)	309.53	54.06
21 22 16 00-0137 EA 3" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426146)	339.15	59.08
21 22 16 00-0138 Pressure Reducers, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0139 EA 1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416677)	142.59	24.52
21 22 16 00-0140 EA 3/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416678)	175.04	30.54
21 22 16 00-0141 EA 1" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416679)	188.28	32.88
21 22 16 00-0142 EA 1-1/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416680)	265.02	46.18
21 22 16 00-0143 EA 1-1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416681)	289.65	50.60
21 22 16 00-0144 EA 2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416682)	340.31	59.08
21 22 16 00-0145 EA 2-1/2" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417057)	395.73	69.27
21 22 16 00-0146 EA 3" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417058)	467.96	81.93
21 22 16 00-0147 EA 2-1/2" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426823)	605.32	106.33
21 22 16 00-0148 EA 3" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426824)	806.85	141.56
21 22 16 00-0149 EA 4" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426825)	920.29	161.40
21 22 16 00-0150 EA 2-1/2" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426847)	583.29	102.16
21 22 16 00-0151 EA 3" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426848)	644.16	112.89
21 22 16 00-0152 EA 4" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426849)	920.29	161.40
21 22 16 00-0153 EA 2-1/2" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426853)	601.29	105.34
21 22 16 00-0154 EA 3" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426854)	669.50	117.32
21 22 16 00-0155 EA 4" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426855)	925.02	172.37
21 22 16 00-0156 Pressure Switches, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0157 EA 3PST, Pressure Switch, Inergen® Fire Suppression System (Ansul 842344)	673.13	123.17
21 22 16 00-0158 Releasing Device Equipment, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0159 EA 12 Or 24 Volt DC, Assembly, Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 17728)	1,099.33	191.09
21 22 16 00-0160 EA 24 Volt DC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 31492)	1,556.45	254.63
21 22 16 00-0161 EA 120 Volt AC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 32525)	1,644.82	259.01
21 22 16 00-0162 EA Cocking Lever For Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 26310)	77.45	13.17
21 22 16 00-0163 EA LT-30-R Nitrogen Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 5373)	93.41	17.44
21 22 16 00-0164 EA Remote Actuator Booster With N2 Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 28939)	879.87	136.32
21 22 16 00-0165 Replacement Orifice Plates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0166 EA 1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418095)	95.27	12.94
21 22 16 00-0167 EA 3/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418096)	99.88	13.63
21 22 16 00-0168 EA 1" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418097)	104.65	13.86
21 22 16 00-0169 EA 1-1/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418098)	112.02	14.32
21 22 16 00-0170 EA 1-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418099)	116.98	15.71
21 22 16 00-0171 EA 2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418100)	118.11	16.98
21 22 16 00-0172 EA 2-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426984)	263.12	45.52
21 22 16 00-0173 EA 3" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426985)	265.49	45.98
21 22 16 00-0174 EA 4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426986)	340.31	58.92

21	Fire Suppression
21 20	Fire-Extinguishing Systems
21 22	Clean-Agent Fire-Extinguishing Systems



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0175	Single Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)			
21 22 16 00-0176	EA	Strap For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427704)	123.87	21.46
21 22 16 00-0177	EA	Channel For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427705).....	179.39	49.05
		Note: Includes saddle, padding and fasteners.		
21 22 16 00-0178	Single Mating Flanges, Flanged Manifold Orifices, Inergen® Fire Suppression System (21 22 16 00-0079)			
21 22 16 00-0179	EA	2 1/2" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426856)	311.01	31.72
		Note: Includes gasket and fasteners.		
21 22 16 00-0180	EA	3" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426857)	271.65	47.35
		Note: Includes gasket and fasteners.		
21 22 16 00-0181	EA	4" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426858)	308.39	53.88
		Note: Includes gasket and fasteners.		
21 22 16 00-0182	EA	2-1/2" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426859)	170.28	29.62
		Note: Includes gasket and fasteners.		
21 22 16 00-0183	EA	3" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426860).....	199.88	34.55
		Note: Includes gasket and fasteners.		
21 22 16 00-0184	EA	4" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426861).....	302.90	52.95
		Note: Includes gasket and fasteners.		
21 22 16 00-0185	EA	2-1/2" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426862)	177.38	31.02
		Note: Includes gasket and fasteners.		
21 22 16 00-0186	EA	3" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426863)	207.72	36.15
		Note: Includes gasket and fasteners.		
21 22 16 00-0187	EA	4" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426864)	330.60	57.84
		Note: Includes gasket and fasteners.		
21 22 16 00-0188	EA	2-1/2" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426828)	32.93	2.35
		Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0189	EA	3" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426829)	33.40	2.59
		Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0190	EA	4" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426830)	36.11	3.07
		Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0191	Upright And Feet, Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)			
21 22 16 00-0192	EA	Center Upright Foot, Inergen® Fire Suppression System (Ansul 418508)	21.71	3.77
21 22 16 00-0193	EA	Double Row, Back-To-Back Rows, Weigh Rail Support, Inergen® Fire Suppression System (Ansul 423027)	177.48	28.65
21 22 16 00-0194	EA	85" High, Cylinder Bracketing For 425 CF And LC100 Cylinders, Inergen® Fire Suppression System (Ansul 426592)	135.94	28.65
		Note: Includes upright, left, right and center.		
21 22 16 00-0195	Autopulse® Fire Detection And Control Equipment (21 22 16 00-0001)			
21 22 16 00-0196	Accessory Switches, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)			
21 22 16 00-0197	EA	Abort, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76495)	140.18	24.72
21 22 16 00-0198	EA	Abort, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76494).....	159.36	28.19
21 22 16 00-0199	EA	Main/Reserve, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76497).....	202.69	35.82
21 22 16 00-0200	EA	Main/Reserve, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76496).....	218.33	38.59
21 22 16 00-0201	EA	Maintenance, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76499).....	273.48	48.52
21 22 16 00-0202	EA	Maintenance, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76498).....	291.01	51.53
21 22 16 00-0203	EA	Explosion Proof, Abort Switch, Autopulse® Fire Detection And Control Equipment (Ansul 65956).....	558.08	99.36
21 22 16 00-0204	EA	Single Gang, Surface Mount Back Box For Accessory Switches, Autopulse® Fire Detection And Control Equipment (Ansul 76490)	44.64	7.40
21 22 16 00-0205	Alarm Devices, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)			
21 22 16 00-0206	EA	Selectable Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429698)	121.48	21.49
21 22 16 00-0207	EA	Sync Module, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429699).....	178.07	31.42
21 22 16 00-0208	EA	Back Box Extender Adapter, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429702).....	16.24	2.86
21 22 16 00-0209	Annunciators, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)			
21 22 16 00-0210	EA	80 Character LCD, Annunciator, LCD-80, Autopulse® Fire Detection And Control Equipment (Ansul 417492).....	1,400.45	249.31
21 22 16 00-0211	EA	16 Zone Alarm/Trouble, Annunciator Control Module, ACM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417496)	1,173.94	208.88
21 22 16 00-0212	EA	16 Zone Alarm/Trouble, Annunciator Expander Module, AEM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417497)	911.34	162.20
21 22 16 00-0213	EA	32 Zone, Alarm Annunciator Expander Module, AEM-32A, Autopulse® Fire Detection And Control Equipment (Ansul 417500)	793.68	141.18



Fire Suppression			21
Fire-Extinguishing Systems			21 20
Clean-Agent Fire-Extinguishing Systems			21 22

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0214	EA	Annunciator Lamp Driver Control Module, LDM-32, Autopulse® Fire Detection And Control Equipment (Ansul 417501).....	793.68	141.18
21 22 16 00-0215	EA	Annunciator Lamp Driver Expander Module, LDM-E32, Autopulse® Fire Detection And Control Equipment (Ansul 417502).....	635.75	112.99
21 22 16 00-0216	EA	Annunciator Lamp Driver Relay Module, LDM-R32, Autopulse® Fire Detection And Control Equipment (Ansul 417650).....	1,173.94	208.88
21 22 16 00-0217	EA	24", Annunciator Lamp Driver Cable, LDM-CBL24, Autopulse® Fire Detection And Control Equipment (Ansul 417651).....	238.67	42.28
21 22 16 00-0218	EA	48", Annunciator Lamp Driver Cable, LDM-CBL48, Autopulse® Fire Detection And Control Equipment (Ansul 417652).....	299.28	53.15
21 22 16 00-0219	EA	8 Relay, Annunciator Control Module, ACM-8R, Autopulse® Fire Detection And Control Equipment (Ansul 417653).....	600.22	106.75
21 22 16 00-0220	EA	Key Switch, AKS-1 Annunciator Accessory, Autopulse® Fire Detection And Control Equipment (Ansul 417660).....	101.35	17.90
21 22 16 00-0221	EA	Low Profile Annunciator Chassis, CHS-4L, Autopulse® Fire Detection And Control Equipment (Ansul 418576)..... Note: For up to 4 LDM modules.	138.02	24.72
21 22 16 00-0222	EA	Flush, Single Annunciator Back Box, ABF-1, Autopulse® Fire Detection And Control Equipment (Ansul 417657).....	238.68	42.28
21 22 16 00-0223 Autopulse IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)				
21 22 16 00-0224	EA	CHS-4 Chassis, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419586).....	186.28	34.43
21 22 16 00-0225	EA	REL 47K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419639).....	11.63	2.35
21 22 16 00-0226	EA	REL 4.7K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419640).....	74.56	2.86
21 22 16 00-0227	EA	REL 2.2K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 407765).....	12.73	2.86
21 22 16 00-0228 Autopulse IQ-396X Modules, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)				
21 22 16 00-0229	EA	Indicating Circuit Expander, IQ-396X Modules, ICE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419564).....	414.42	77.17
21 22 16 00-0230	EA	Control Relay Expander, IQ-396X Modules, CRE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419566).....	248.29	45.98
21 22 16 00-0231 Batteries And Power Supplies, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)				
21 22 16 00-0232	EA	7 Amp Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417692).....	180.83	29.57
21 22 16 00-0233	EA	12 Amp Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417693).....	378.56	62.62
21 22 16 00-0234	EA	18 Amp Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417694).....	427.34	70.93
21 22 16 00-0235	EA	25 Amp Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417695).....	555.35	86.41
21 22 16 00-0236	EA	55 Amp Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417997).....	900.72	149.95
21 22 16 00-0237	EA	BB-17, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 418578).....	135.46	23.79
21 22 16 00-0238	EA	BB-25, Grey Cabinet, Autopulse® Fire Detection And Control Equipment (Ansul 428079)..... Note: Holds six XP5 modules or 25AH battery pack.	242.22	42.97
21 22 16 00-0239	EA	BB-55, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 419410)..... Note: For mounting in BB-55 battery box.	492.74	87.57
21 22 16 00-0240	EA	Battery Charger, CHG-120, Autopulse® Fire Detection And Control Equipment (Ansul 426207)..... Note: For mounting in BB-55 battery box.	1,432.71	255.09
21 22 16 00-0241	EA	120 Volt AC, FCPS-24F, Red Remote Power Supply, Autopulse® Fire Detection And Control Equipment (Ansul 418563).....	1,047.73	186.46
21 22 16 00-0242 Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)				
21 22 16 00-0243	EA	Monitor Module, Intelligent Addressable Devices, FMM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428097).....	110.45	19.75
21 22 16 00-0244	EA	Mini Monitor Module, Intelligent Addressable Devices, FMM-101, Autopulse® Fire Detection And Control Equipment (Ansul 428098).....	103.77	19.64
21 22 16 00-0245	EA	Isolator Module, Intelligent Addressable Devices, ISO-X, Autopulse® Fire Detection And Control Equipment (Ansul 417480).....	141.45	28.19
21 22 16 00-0246	EA	2-Wire Detector Monitor Module, Intelligent Addressable Devices, FZM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428100).....	207.42	36.74
21 22 16 00-0247	EA	NAC Control Module, Intelligent Addressable Devices, FCM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428101).....	161.90	29.81
21 22 16 00-0248	EA	Control Relay Module, Intelligent Addressable Devices, FRM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428102).....	152.41	28.65
21 22 16 00-0249	EA	Flangeless, Analog Addressable Detector Base, Intelligent Addressable Devices, B501, Autopulse® Fire Detection And Control Equipment (Ansul 417487).....	24.29	4.57
21 22 16 00-0250	EA	Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125).....	89.25	16.17
21 22 16 00-0251	EA	Harsh Detector, Analog Addressable Detector Base, Intelligent Addressable Devices, B710HD, Autopulse® Fire Detection And Control Equipment (Ansul 427066).....	89.04	15.71
21 22 16 00-0252	EA	HPX-751 Detector Filter Cover, Intelligent Addressable Devices, FR-FTX, Autopulse® Fire Detection And Control Equipment (Ansul 427067).....	35.38	12.94
21 22 16 00-0253	EA	Low Profile Trim Ring, Intelligent Addressable Devices, F110, Autopulse® Fire Detection And Control Equipment (Ansul 428138)..... Note: Converts BX501 to low profile base.	8.19	1.44

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0254	EA	Relay Base, Intelligent Addressable Devices, B224RB, Autopulse® Fire Detection And Control Equipment (Ansul 423945)	85.71	15.14
21 22 16 00-0255	EA	EOL Power Supervision Relay, Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (Ansul 417699)	50.23	8.92
21 22 16 00-0256	EA	XP5 Modules Cabinet, Intelligent Addressable Devices, BB-XP, Autopulse® Fire Detection And Control Equipment (Ansul 428078)	135.69	23.56
21 22 16 00-0257	EA	BB-25 Chassis, Intelligent Addressable Devices, CHS-6, Autopulse® Fire Detection And Control Equipment (Ansul 428080)	71.04	12.47
21 22 16 00-0258		Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		
21 22 16 00-0259	EA	Break Rod Package For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 428661)	20.33	3.35
21 22 16 00-0260	EA	Key Pull Station For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 418336)	12.49	1.85
21 22 16 00-0261		Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		
21 22 16 00-0262	EA	Transmitter Module, 4XTM, Autopulse® Fire Detection And Control Equipment (Ansul 417470)	178.07	31.42
21 22 16 00-0263	EA	Battery Cabinet, VBC-001, Vesda® Aspiring Smoke Detection System (Ansul 430379)	322.83	90.34
21 22 16 00-0264	EA	Relay/Transmitter Module With 8 Form C Relay Contacts, RTM-8, Autopulse® Fire Detection And Control Equipment (Ansul 417471)	533.43	182.07
21 22 16 00-0265	EA	Universal Digital Alarm COM/XMTR Module, UDACT, Autopulse® Fire Detection And Control Equipment (Ansul 419411)	1,023.11	4.71
21 22 16 00-0265	EA	Ferrite Core For Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (Ansul 419635)	27.22	
21 22 16 00-0266		Vesda® Aspiring Smoke Detection System (21 22 16 00-0001)		
21 22 16 00-0267		Batteries And Power Supplies, Vesda® Aspiring Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0268	EA	Transformer Only, VSP-TRAN-120, Vesda® Aspiring Smoke Detection System (Ansul 430482)	137.44	22.19
21 22 16 00-0269	EA	Battery Cabinet, VBC-001, Vesda® Aspiring Smoke Detection System (Ansul 430379)	322.83	33.44
21 22 16 00-0270	EA	120 Volt AC, Single Zone Power Supply With Housing, VPS-100US-120, Vesda® Aspiring Smoke Detection System (Ansul 430374)	767.38	129.39
21 22 16 00-0271	EA	220 Volt AC, Single Zone Power Supply With Housing, VPS-100US-220, Vesda® Aspiring Smoke Detection System (Ansul 430375)	767.38	129.39
21 22 16 00-0272	EA	120 Volt AC, Multi Zone Power Supply, VPS-300US-120, Vesda® Aspiring Smoke Detection System (Ansul 430376)	1,152.83	194.09
21 22 16 00-0273	EA	Note: Includes housing and battery cab. 220 Volt AC, Multi Zone Power Supply, VPS-300US-220, Vesda® Aspiring Smoke Detection System (Ansul 430377)	1,152.83	194.09
21 22 16 00-0274	EA	Note: Includes housing and battery cab. 48 Volt DC, Multi Zone Power Supply With Housing, VPS-400US-48, Vesda® Aspiring Smoke Detection System (Ansul 430378)	1,666.43	247.23
21 22 16 00-0275		Blank Plates, Vesda® Aspiring Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0276	EA	Blank Plate Without VESDA Logo, VSP-300, Vesda® Aspiring Smoke Detection System (Ansul 430459)	24.74	4.16
21 22 16 00-0277	EA	Blank Plate With VESDA Logo, VSP-000, Vesda® Aspiring Smoke Detection System (Ansul 430458)	36.27	4.16
21 22 16 00-0278	EA	Blank Plate, EMC Painted Without Logo, VSP-200, Vesda® Aspiring Smoke Detection System (Ansul 430484)	53.55	7.85
21 22 16 00-0279	EA	Single Blank Plate, VRE-001, Vesda® Aspiring Smoke Detection System (Ansul 430446)	81.71	8.78
21 22 16 00-0280	EA	Double Blank Plate, VRE-002, Vesda® Aspiring Smoke Detection System (Ansul 430447)	105.93	17.56
21 22 16 00-0281	EA	Blank Plate Without FOK LED's And Logo, VSP-100, Vesda® Aspiring Smoke Detection System (Ansul 430480)	191.18	22.19
21 22 16 00-0282		Detectors, Vesda® Aspiring Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0283	EA	LaserPLUS, Detector Only, Enclosure, VLP-000, Vesda® Aspiring Smoke Detection System (Ansul 430350)	5,848.50	1,085.96
21 22 16 00-0284	EA	Note: Includes 3 blank plates. LaserPLUS Detector, VLP-012, Vesda® Aspiring Smoke Detection System (Ansul 430354)	7,439.88	1,340.12
21 22 16 00-0285	EA	Note: Includes centrally mounted LCD programmer module and standard display. LaserPLUS Detector, VLP-010, Vesda® Aspiring Smoke Detection System (Ansul 430356)	6,733.59	1,224.59
21 22 16 00-0286	EA	Note: Includes centrally mounted LCD programmer. 7-Relay Version, LaserSCANNER Detector Only, VLS-200, Vesda® Aspiring Smoke Detection System (Ansul 430357)	9,321.29	1,617.39
21 22 16 00-0287	EA	12-Relay Version, LaserSCANNER Detector Only, VLS-300, Vesda® Aspiring Smoke Detection System (Ansul 430358)	9,817.15	1,709.81
21 22 16 00-0288	EA	7-Relay Version, LaserSCANNER Detector Only, VLS-600, Vesda® Aspiring Smoke Detection System (Ansul 430359)	9,426.45	1,640.49
21 22 16 00-0289	EA	Note: Includes 1 fire alarm (any SCT) and OK/FOK LEDs. 12-Relay Version, LaserSCANNER Detector Only, VLS-700, Vesda® Aspiring Smoke Detection System (Ansul 430360)	9,955.67	1,732.92
21 22 16 00-0290	EA	Note: Includes 1 fire alarm (any SCT) and OK/FOK LED. 7-Relay, LaserSCANNER Detector Only, VLS-204, Vesda® Aspiring Smoke Detection System (Ansul 430361)	10,249.81	1,802.23
21 22 16 00-0291	EA	Note: Includes 2 blank plates and scan display module at far right. 12-Relay, LaserSCANNER Detector, VLS-304, Vesda® Aspiring Smoke Detection System (Ansul 430363)	10,701.49	1,894.65
21 22 16 00-0292	EA	Note: Includes 2 blank plates and scanner display. 7-Relay, LaserSCANNER Detector, VLS-214, Vesda® Aspiring Smoke Detection System (Ansul 430365)	11,246.08	1,987.07
21 22 16 00-0293	EA	Note: Includes centrally mounted programmer module. 12-Relay, LaserSCANNER Detector, VLS-314, Vesda® Aspiring Smoke Detection System (Ansul 430367)	11,730.00	2,079.49
		Note: Includes centrally mounted LCD programmer module and scanner display module.		



Fire Suppression		21	21
Fire-Extinguishing Systems		21 20	
Clean-Agent Fire-Extinguishing Systems		21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0294 EA 12-Relay, LaserSCANNER Detector, VLS-310, Vesda® Aspirating Smoke Detection System (Ansul 430369).....	10,994.75	1,894.65
Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0295 Displays, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0296 EA VRT-200 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430381).....	1,741.83	254.16
Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0297 EA VRT-400 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430385).....	1,749.72	254.16
Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0298 EA VRT-600 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430383).....	1,577.88	231.05
Note: Includes a remote termination card without relays.		
21 22 16 00-0299 EA VRT-700 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430387).....	1,587.04	231.05
Note: Includes a remote termination card.		
21 22 16 00-0300 EA VRT-800 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430389).....	1,957.59	277.26
Note: Includes a remote termination card and 12 relays.		
21 22 16 00-0301 EA VRT-K00 Display, Compact Version Without Relays, Vesda® Aspirating Smoke Detection System (Ansul 430391).....	1,665.86	240.30
21 22 16 00-0302 EA VRT-J00 Display, Compact Version With 7 Relays, Vesda® Aspirating Smoke Detection System (Ansul 430393).....	1,826.88	269.88
21 22 16 00-0303 Intelligent Addressable Devices, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0304 EA LaserCOMPACT (VN), VESDAnet Version Plus Relay Output, VLC-505, Vesda® Aspirating Smoke Detection System (Ansul 430370).....	4,440.89	762.48
21 22 16 00-0305 EA LaserCOMPACT (RO), Relay Only Version, VLC-500, Vesda® Aspirating Smoke Detection System (Ansul 430372).....	3,648.55	609.99
21 22 16 00-0306 EA Programmer With Remote Termination Card, VRT-100, Vesda® Aspirating Smoke Detection System (Ansul 430380).....	1,297.58	231.05
21 22 16 00-0307 EA VESDAnet Socket, VRT-300, Vesda® Aspirating Smoke Detection System (Ansul 430395).....	926.17	150.18
21 22 16 00-0308 EA System Relay Module, VRT-S07, Vesda® Aspirating Smoke Detection System (Ansul 430399).....	1,287.02	202.40
21 22 16 00-0309 EA PC-Link High-Level Interface, VHX-0200, Vesda® Aspirating Smoke Detection System (Ansul 430442).....	1,562.64	249.54
Note: Interface connects PC and LaserPLUS system.		
21 22 16 00-0310 EA Modem Cable, PC-HLI To Modem Connection, VHX-00090, Vesda® Aspirating Smoke Detection System (Ansul 430443).....	242.40	37.44
21 22 16 00-0311 EA Hand-Held Programmer, VHH-1000, Vesda® Aspirating Smoke Detection System (Ansul 430444).....	1,611.39	231.05
21 22 16 00-0312 EA Programmer Module, VSP-001, Vesda® Aspirating Smoke Detection System (Ansul 430460).....	1,164.16	191.78
21 22 16 00-0313 EA VESDAnet Socket Kit, VSP-003, Vesda® Aspirating Smoke Detection System (Ansul 430463).....	912.95	147.87
21 22 16 00-0314 EA Standard Display Module, VSP-002, Vesda® Aspirating Smoke Detection System (Ansul 430461).....	1,165.88	191.78
21 22 16 00-0315 EA Scanner Display Module, VSP-004, Vesda® Aspirating Smoke Detection System (Ansul 430464).....	1,164.16	191.78
21 22 16 00-0316 EA Remote Display Module, Compact (VN), VSP-502, Vesda® Aspirating Smoke Detection System (Ansul 430487).....	1,146.47	180.22
21 22 16 00-0317 EA Filter Cartridge, VSP-005, Vesda® Aspirating Smoke Detection System (Ansul 430466).....	135.64	16.17
21 22 16 00-0318 EA Detector Chassis Assembly, VSP-006, Vesda® Aspirating Smoke Detection System (Ansul 430467).....	5,547.48	887.25
21 22 16 00-0319 EA Scanner Chassis Assembly, VSP-009, Vesda® Aspirating Smoke Detection System (Ansul 430470).....	9,669.81	1,552.69
21 22 16 00-0320 EA Detector Cover Assembly With EMC Shields, VSP-013, Vesda® Aspirating Smoke Detection System (Ansul 430473).....	139.95	69.32
21 22 16 00-0321 EA Aspirator For LaserPLUS And Laser Scanner, VSP-015, Vesda® Aspirating Smoke Detection System (Ansul 430475).....	752.77	115.53
21 22 16 00-0322 EA Filter Cover, VSP-019, Vesda® Aspirating Smoke Detection System (Ansul 430477).....	16.97	2.31
21 22 16 00-0323 EA Cover Screws, 17606, Vesda® Aspirating Smoke Detection System (Ansul 430478).....	9.16	0.46
21 22 16 00-0324 EA US Power Supply Circuit Board Only, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430481).....	416.36	67.01
21 22 16 00-0325 EA Relay Processor Module (DRP), VSP-102, Vesda® Aspirating Smoke Detection System (Ansul 430483).....	504.51	81.33
21 22 16 00-0326 EA Aspirator, LaserCOMPACT, VSP-501, Vesda® Aspirating Smoke Detection System (Ansul 430486).....	728.50	117.83
21 22 16 00-0327 EA RO-Cable For LaserCOMPACT Relay Only, (RO) Version, VSP-509, Vesda® Aspirating Smoke Detection System (Ansul 430488).....	107.43	17.56
21 22 16 00-0328 EA Miniature Sampling Point, E700-SP, Vesda® Aspirating Smoke Detection System (Ansul 430502).....	17.25	3.70
21 22 16 00-0329 Labels And Decals, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0330 EA Sampling Point Labels, Roll Of 35, E700-SP-DCL-PIPE, Vesda® Aspirating Smoke Detection System (Ansul 430509).....	15.39	2.77
21 22 16 00-0331 EA Round Point Label, Roll Of 50, E700-SP-DCL-PNT, Vesda® Aspirating Smoke Detection System (Ansul 430505).....	16.32	3.24
21 22 16 00-0332 EA Red, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLR, Vesda® Aspirating Smoke Detection System (Ansul 430506).....	24.74	4.16
21 22 16 00-0333 EA Grey, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLG, Vesda® Aspirating Smoke Detection System (Ansul 430507).....	24.77	4.16
21 22 16 00-0334 EA Sampling Point Decal, Wrap-Around Style, Roll Of 200, E700-SP-DCL, Vesda® Aspirating Smoke Detection System (Ansul 430508).....	90.13	15.71
21 22 16 00-0335 Mounting Hardware, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0336 EA Remote Mounting Single Box With Escutcheon Only, VKT-000, Vesda® Aspirating Smoke Detection System (Ansul 430456).....	219.79	33.27
21 22 16 00-0337 EA Recessed Mounting Kit For Remote Single Boxes, VSP-012, Vesda® Aspirating Smoke Detection System (Ansul 430472).....	295.92	44.36
21 22 16 00-0338 EA Recessed Mounting Kit For VLP Or VLS Detector, VSP-011, Vesda® Aspirating Smoke Detection System (Ansul 430471).....	304.31	48.52
21 22 16 00-0339 EA Remote 19 Sub Rack With 4 Blank Plates, VSR-0000, Vesda® Aspirating Smoke Detection System (Ansul 430457).....	715.83	69.32
21 22 16 00-0340 EA Sub Rack Enclosure, VRE-100, Vesda® Aspirating Smoke Detection System (Ansul 430445).....	1,078.79	152.49
21 22 16 00-0341 Pipe And Fittings, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0342	LF	3/4", Orange Chlorinated Polyvinyl Chloride (CPVC) Pipe, Vesda® Aspirating Smoke Detection System (Ansul 430491)	5.20	1.66
21 22 16 00-0343	EA	3/4", End Cap, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430497)	9.18	3.32
21 22 16 00-0344	EA	3/4", 45 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430494)	25.76	9.96
21 22 16 00-0345	EA	3/4", 90 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430493)	26.41	9.96
21 22 16 00-0346	EA	3/4", Coupling, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430495)	18.06	6.64
21 22 16 00-0347	EA	3/4", Union, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430496)	28.66	9.96
21 22 16 00-0348	EA	3/4", Tee, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430498)	39.35	14.93
21 22 16 00-0349	EA	3/4" x 1/2" FPT, Tee, Chlorinated Polyvinyl Chloride (CPVC), Vesda® Aspirating Smoke Detection System (Ansul 430499)	48.48	17.52
21 22 16 00-0350	LF	1/2" OD x 3/8" ID, Black Polyethylene Tubing, Vesda® Aspirating Smoke Detection System (Ansul 430500).....	4.54	1.67
21 22 16 00-0351	EA	Pipe Adapters, Metric-To-Imperial, VSP-021, Vesda® Aspirating Smoke Detection System (Ansul 430479)	17.23	5.09
21 22 16 00-0352	EA	Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Plastic, E700-CAP KIT, Vesda® Aspirating Smoke Detection System (Ansul 430503)	19.77	3.70
21 22 16 00-0353	EA	Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Brass, Vesda® Aspirating Smoke Detection System (Ansul 430504)	28.24	5.09
21 22 16 00-0354		Remote Termination And Relay Cards, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0355	EA	VRT-500, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430396)	1,261.56	177.45
		Note: Remote box includes 7 relays for VLP/VLC.		
21 22 16 00-0356	EA	VN, Compact Termination Card, VSP-515, Vesda® Aspirating Smoke Detection System (Ansul 430490).....	1,297.76	204.25
21 22 16 00-0357	EA	12-Relay, Remote Termination Card, VSP-208, Vesda® Aspirating Smoke Detection System (Ansul 430485)	786.09	124.77
21 22 16 00-0358	EA	RO, Compact Termination Card, VSP-510, Vesda® Aspirating Smoke Detection System (Ansul 430489)	897.39	140.94
21 22 16 00-0359	EA	VRT-501, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430397)	1,261.56	177.45
		Note: Remote box includes 7 relays for VLS.		
21 22 16 00-0360	EA	VRT-900 Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430398)	1,517.36	204.25
		Note: Remote box includes 12 relays for VLS.		
21 22 16 00-0361	EA	Remote Termination Card Without Relay, VSP-007, Vesda® Aspirating Smoke Detection System (Ansul 430468)	432.91	62.85
21 22 16 00-0362	EA	Remote Termination Card (RTC7), VSP-008, Vesda® Aspirating Smoke Detection System (Ansul 430469)	651.95	96.12
21 22 16 00-0363	EA	7-Relay, Head Termination Card, VSP-014, Vesda® Aspirating Smoke Detection System (Ansul 430474)	1,236.81	198.71
21 22 16 00-0364	EA	12-Relay, Head Termination Card, VSP-016, Vesda® Aspirating Smoke Detection System (Ansul 430476)	1,814.24	291.13
21 22 16 00-0365		Preferred® Low Pressure CO2 System (21 22 16 00-0001)		
21 22 16 00-0366		Manual Pull Stations, Preferred® Low Pressure CO2 System (21 22 16 00-0365)		
21 22 16 00-0367	EA	Addressable, DPST, Dual Action Pull Station, Preferred® Low Pressure CO2 System (Ansul 428658)	98.17	16.17
		Note: Excludes FMM-101.		
21 22 16 00-0368	EA	Weatherproof Backbox For Manual Pull Stations, Preferred® Low Pressure CO2 System (Ansul 428659).....	73.40	12.01
21 22 16 00-0369		Industrial Fire Control System (21 22 16 00-0001)		
21 22 16 00-0370		Alarm Devices, Industrial Fire Control System (21 22 16 00-0369)		
21 22 16 00-0371	EA	Explosion Proof Alarm Horn, Alarm Devices, Industrial Fire Control System (Ansul 65947)	2,393.77	426.30
21 22 16 00-0372	EA	6", 115 Volt AC Alarm Bell For Release Systems, Alarm Devices, Industrial Fire Control System (Ansul 24751).....	71.58	9.80
21 22 16 00-0373	EA	24 Volt AC, Multitone Horn, Alarm Devices, Industrial Fire Control System (Ansul 429697)	72.22	12.71
21 22 16 00-0374	EA	Weatherproof Surface Back Box For Horn And Strobe, Alarm Devices, Industrial Fire Control System (Ansul 429700)	43.04	7.63
21 22 16 00-0375	EA	Semi-Flush Plate, Alarm Devices, Industrial Fire Control System (Ansul 429701)	17.58	3.10
21 22 16 00-0376		Manual Pull Stations, Industrial Fire Control System (21 22 16 00-0369)		
21 22 16 00-0377	EA	SPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428655).....	81.15	13.40
21 22 16 00-0378	EA	DPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428656).....	114.43	18.95
21 22 16 00-0379	EA	Explosion Proof, DPDT, Dual Action Pull Station, Industrial Fire Control System (Ansul 428657)	893.82	148.80
21 22 16 00-0380	EA	Surface Mounted Backbox For Manual Pull Stations, Industrial Fire Control System (Ansul 428660).....	25.97	4.30
21 22 16 00-0381	EA	Extra Pull Station Labels For Manual Pull Stations, Industrial Fire Control System (Ansul 428654).....	11.64	1.92
21 22 16 00-0382		Marine Fire Control System (21 22 16 00-0001)		
21 22 16 00-0383		Alarm Devices, Marine Fire Control System (21 22 16 00-0382)		
21 22 16 00-0384	EA	Weatherproof Surface Mount Back Box For Alarm Accessories, Alarm Devices, Marine Fire Control System (Ansul 24747)	47.05	7.76
21 22 16 00-0385	EA	6", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805)	87.07	15.02
21 22 16 00-0386	EA	10", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417806)	87.07	15.02
21 22 16 00-0387		FM200 System Equipment (21 22 16)		
21 22 16 00-0388	EA	26 LB Cylinder, Filled, For FM200 Fire Protection system.....	2,341.69	111.46



Fire Suppression		21	21
Fire-Extinguishing Systems		21 20	
Clean-Agent Fire-Extinguishing Systems		21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0389 EA 44 LB Cylinder, Filled, For FM200 Fire Protection system.....	3,337.07	127.62
21 22 16 00-0390 EA 63 LB Cylinder, Filled, For FM200 Fire Protection system.....	3,960.61	150.47
21 22 16 00-0391 EA 101 LB Cylinder, Filled, For FM200 Fire Protection system.....	5,236.25	178.35
21 22 16 00-0392 EA 196 LB Cylinder, Filled, For FM200 Fire Protection system.....	8,150.46	222.93
21 22 16 00-0393 EA Electro/Mechanical Release, For FM200 Fire Protection system	599.95	222.93
21 22 16 00-0394 EA Manual Pull Station, For FM200 Fire Protection system	206.00	74.13
21 22 16 00-0395 EA Pneumatic Damper Release, For FM200 Fire Protection system	220.61	55.73
21 22 16 00-0396 LB FM200 Gas	15.75	
21 22 16 00-0397 EA Master Cylinder, For FM200 Fire Protection system.....	3,746.09	59.97
21 22 16 00-0398 EA Shuttle Check Valve, For FM200 Fire Protection system	500.98	83.83
21 22 16 00-0399 EA Flex Head Cylinder, For FM200 Fire Protection system	504.98	89.84
21 22 16 00-0400 EA Nozzles, For FM200 Fire Protection system	134.18	31.77
21 22 16 00-0401 EA Cylinder Support, For FM200 Fire Protection system	177.48	59.97
21 22 16 00-0402 EA Solenoid Valve, For FM200 Fire Protection system	630.52	89.84
21 22 16 00-0403 EA Battery Back-Up, For FM200 Fire Protection system.....	626.22	236.97
21 22 16 00-0404 EA Control Panel, Single Zone, For FM200 Fire Protection system	2,976.96	445.19
21 22 16 00-0405 EA Control Panel, Multi Zone, For FM200 Fire Protection system	4,928.92	891.39
21 22 16 00-0406 EA Smoke Or Heat Detector, For FM200 Fire Protection system.....	254.07	89.84
21 22 16 00-0407 EA Annunciator, For FM200 Fire Protection system.....	2,396.59	337.41
21 22 16 00-0408 EA Pressure Switch, For FM200 Fire Protection system.....	268.88	89.84
21 22 16 00-0409 EA Alarm Horn, For FM200 Fire Protection system.....	252.64	89.84
21 22 16 00-0410 EA Testing, For FM200 Fire Protection system.....	1,136.17	
21 22 16 00-0411 EA Abort Switch, For FM200 Fire Protection system.....	156.45	41.80

21 23 Wet-Chemical Fire-Extinguishing Systems ^(21 20)

21 23 16 Wet-Chemical Fire-Extinguishing Equipment ^(21 23)

21 23 16 00-0001 Kidde Fire Systems ^(21 23 16)

Note: Kidde or equal.

21 23 16 00-0002 Cylinders And Hardware ^(21 23 16 00-0001)

21 23 16 00-0003 EA 125 Cylinder And Valve Assembly With 1.25 Gallon of Wet Agent.....	556.44	92.31
21 23 16 00-0004 EA 260 Cylinder And Valve Assembly With 2.6 Gallon Of Wet Agent	647.87	114.98
21 23 16 00-0005 EA 400S And M Cylinder And Valve Assembly With 4 Gallon Of Wet Agent	794.88	141.85
21 23 16 00-0006 EA 600 And L Cylinder And Valve Assembly With 6 Gallon Of Wet Agent.....	939.39	168.31
21 23 16 00-0007 EA Discharge Adapter Kit (One Required Per Cylinder).....	30.85	4.83
21 23 16 00-0008 EA System Valve Actuator	112.64	19.18
21 23 16 00-0009 EA Vent Plug	21.40	3.90
21 23 16 00-0010 EA Gauge Shield.....	56.79	10.25
21 23 16 00-0011 EA 125 Cylinder Wall Mounting Bracket.....	58.40	10.25
21 23 16 00-0012 EA 260 Cylinder Wall Mounting Bracket.....	61.90	10.87
21 23 16 00-0013 EA 400S And M Cylinder Wall Mounting Bracket	117.51	20.51
21 23 16 00-0014 EA 600 And 400M Cylinder Shelf Bracket	118.49	23.28
21 23 16 00-0015 EA 600 And 400M Cylinder Floor Mounting Kit.....	161.73	23.33
21 23 16 00-0016 EA 125 And 260 Cylinder Replacement Bracket Strap.....	23.73	
21 23 16 00-0017 EA 400 And 600 Cylinder Replacement Bracket Strap.....	24.76	

21 23 16 00-0018 Nozzles And Accessories ^(21 23 16 00-0001)

21 23 16 00-0019 EA ADP, F, GRW Or R Nozzle.....	52.55	9.44
21 23 16 00-0020 EA LPF Or DM Nozzle.....	56.34	9.44
21 23 16 00-0021 EA LPR Nozzle.....	64.14	9.44
21 23 16 00-0022 EA 3/8" Swivel Adapter For Nozzles.....	39.04	6.67
21 23 16 00-0023 EA Replacement Nozzle Seals.....	6.19	
21 23 16 00-0024 EA Chrome Nozzle Disc Cap.....	3.80	0.61
21 23 16 00-0025 EA LPR Nozzle Disc Cap	27.06	9.39

21 23 16 00-0026 Control Systems ^(21 23 16 00-0001)

21 23 16 00-0027 EA XV Control System	652.78	61.53
Note: Includes (1) SVA, (1) system cartridge, (1) test cartridge, (1) EMT connector kit, (1) SPDT microswitch kit, and (1) SPDT microswitch kit.		
21 23 16 00-0028 EA 7-1/2" High Pressure Hose (Required for cylinder mounted XV Control System).....	59.90	10.25
21 23 16 00-0029 EA 24" High Pressure Hose	69.23	10.25
21 23 16 00-0030 EA 60" High Pressure Hose	89.96	10.25
21 23 16 00-0031 EA XV Solenoid Kit (Electric Actuator), 24 VDC.....	135.36	20.51
21 23 16 00-0032 EA XV Microswitch Kit, SPDT.....	47.27	9.64
21 23 16 00-0033 EA XV Microswitch Kit, SPDT, Terminal Type, For Alarm/Release	50.38	9.64
21 23 16 00-0034 EA EMT Connector Kit (EMT Connector & O-Ring)	23.67	7.69
21 23 16 00-0035 EA KRS-50 Control Box Assembly	371.81	39.74
Note: Includes (1) SVA, (2) CO2 cartridges, (2) set screws, (1) grommet, (1) cover label, and (1) exhaust fan caution label.		
21 23 16 00-0036 EA SPDT Microswitch For KRS-50.....	54.85	9.64
21 23 16 00-0037 EA DPDT Microswitch For KRS-50	98.58	16.72
21 23 16 00-0038 EA SPDT Pressure Switch (Fire Department Tie-In).....	304.84	53.64

21 23 16 00-0039 Mechanical Actuation Components ^(21 23 16 00-0001)

21 23 16 00-0040 EA Universal Detector Link Housing Kit, Mechanical Actuation Systems.....	43.64	15.38
Note: Includes (1) bracket (11-3/4"), (2) "S" hook, and (2) cable crimp sleeves.		

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0041 EA XV Low Profile Link Detector Housing Kit Note: Includes (1) bracket, (2) 1/2" EMT connectors, (4) cable crimp sleeves, and (1) S hook.	57.72	15.38
21 23 16 00-0042 EA XV Or KRS-50 Remote Manual Release, Combination Pull-To-Trip/Release-To-Trip	128.32	10.25
21 23 16 00-0043 EA XV Remote Manual Release, Pull-To-Trip	100.33	10.25
21 23 16 00-0044 EA Corner Pulley, Mechanical Actuation Systems	15.37	2.76
21 23 16 00-0045 EA Double Tee Pulley, Mechanical Actuation Systems	192.03	16.92
21 23 16 00-0046 EA In-Line Tee Pulley, Mechanical Actuation Systems	25.62	4.51
21 23 16 00-0047 EA Corner Pulley / Quik-Seal Adapter Combination	52.75	5.13
21 23 16 00-0048 LF 1/16" Cable, Mechanical Actuation Systems	2.28	1.03
21 23 16 00-0049 EA Cable Clamp	7.25	0.51
21 23 16 00-0050 EA Cable Crimp Sleeve, Mechanical Actuation Systems	1.24	0.41
21 23 16 00-0051 EA "S" Hook, Mechanical Actuation Systems	1.21	0.41
21 23 16 00-0052 EA 1/2" EMT x 3/8" NPT Adapter, Mechanical Actuation Systems	54.62	9.54
21 23 16 00-0053 Mechanical Detection Links (21 23 16 00-0001)		
21 23 16 00-0054 EA KGS Standard Response Link	14.64	5.13
21 23 16 00-0055 EA KGS Rapid Response Link	19.03	5.13
21 23 16 00-0056 EA KFA Type "A" Fusible Link	17.06	5.13
21 23 16 00-0057 EA KML Type "ML" Fusible Link	17.51	5.13
21 23 16 00-0058 EA 500 Degree, KML Type "ML" Fusible Link	23.73	5.13
21 23 16 00-0059 Gas Valves (21 23 16 00-0001)		
21 23 16 00-0060 EA 3/4" NPT Mechanical Cable Operated Gas Shut-off Valve	226.77	22.16
21 23 16 00-0061 EA 1" NPT Mechanical Cable Operated Gas Shut-off Valve	249.94	27.28
21 23 16 00-0062 EA 1-1/4" NPT Mechanical Cable Operated Gas Shut-off Valve	290.10	34.46
21 23 16 00-0063 EA 1-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve	320.09	39.69
21 23 16 00-0064 EA 2" NPT Mechanical Cable Operated Gas Shut-off Valve	349.64	46.87
21 23 16 00-0065 EA 2-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve	570.85	68.51
21 23 16 00-0066 EA 3" NPT Mechanical Cable Operated Gas Shut-off Valve	640.18	79.28
21 23 16 00-0067 EA Pneumatic Release (Single Unit)	257.42	25.02
21 23 16 00-0068 EA Replacement Cable Block And Set Screw Assembly For Gas Valve	33.06	5.13
21 23 16 00-0069 EA 1/2" Electric Solenoid Gas Shut-off Valve	234.29	20.62
21 23 16 00-0070 EA 3/4" Electric Solenoid Gas Shut-off Valve	237.37	22.16
21 23 16 00-0071 EA 1" Electric Solenoid Gas Shut-off Valve	359.73	27.28
21 23 16 00-0072 EA 1-1/4" Electric Solenoid Gas Shut-off Valve	386.27	34.46
21 23 16 00-0073 EA 1-1/2" Electric Solenoid Gas Shut-off Valve	443.51	39.69
21 23 16 00-0074 EA 2" Electric Solenoid Gas Shut-off Valve	566.20	46.87
21 23 16 00-0075 EA 2-1/2" Electric Solenoid Gas Shut-off Valve	927.49	68.51
21 23 16 00-0076 EA 3" Electric Solenoid Gas Shut-off Valve	1,158.86	79.28
21 23 16 00-0077 EA Manual Reset Relay	391.69	103.07
21 23 16 00-0078 Liquid Tight Sealing Adapters (21 23 16 00-0001)		
21 23 16 00-0079 EA Compression Seal Adapter - 3/8" Tubing	27.54	4.30
21 23 16 00-0080 EA Compression Seal Adapter - 1/2" Tubing / 1/4" Pipe	27.54	4.71
21 23 16 00-0081 EA Compression Seal Adapter - 5/8" Tubing / 3/8" Pipe	32.45	5.64
21 23 16 00-0082 EA Compression Seal Adapter - 3/4" Tubing / 1/2" Pipe	37.00	6.05
21 23 16 00-0083 EA Compression Seal Adapter - 1/2" Electrical Metallic Tubing (EMT)	32.45	5.64
21 23 16 00-0084 EA Quik-Seal Adapter - 3/8" NPT Female	27.54	4.71
21 23 16 00-0085 EA Quik-Seal Adapter - 1/2" NPT Female	27.54	4.71
21 23 16 00-0086 EA Quik-Seal Adapter - 3/4" NPT Female	45.49	8.00
21 23 16 00-0087 EA Quik-Seal Adapter - 1" NPT Female	60.52	10.57
21 23 16 00-0088 EA Quik-Patch For Hole Patching Up To 1-1/8" Diameter	27.54	4.71
21 23 16 00-0089 Pressure Operated Releasing Systems (21 23 16 00-0001)		
21 23 16 00-0090 EA KRS-100 Nitrogen Cylinder	197.46	30.97
21 23 16 00-0091 EA KRS-100 Actuator Assembly	180.52	31.59
21 23 16 00-0092 EA KRS-100 Mounting Bracket	126.04	7.79
21 23 16 00-0093 EA KRS-700S Nitrogen Cylinder	517.09	89.33
21 23 16 00-0094 EA KRS-700 Mounting Bracket	110.16	19.08
21 23 16 00-0095 EA KRS-700S Discharge Adapter Kit	157.70	19.08
21 23 16 00-0096 EA Check Valve, Pressure Operated Releasing Systems	151.22	13.54
21 23 16 00-0097 EA Vent Check, Pressure Operated Releasing Systems	50.64	8.62
21 23 16 00-0098 EA Replacement Receiver Gasket For KRS-100 Actuator Assembly	6.54	
21 23 16 00-0099 EA 3 Pole, Double Throw Pressure Switch	414.67	71.80
21 23 16 00-0100 Pyro-Chem Kitchen Fire Suppression Systems (21 23 16)		
21 23 16 00-0101 Cylinders, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0102 EA 3.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551194)	518.42	72.82
21 23 16 00-0103 EA 4.6 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551193)	746.81	104.92
21 23 16 00-0104 EA 6.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551196)	985.81	143.49
21 23 16 00-0105 EA Cylinder Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550053)	108.17	17.13
21 23 16 00-0106 EA Enclosure With Mechanical Control Unit, Kitchen Fire Suppression Systems (Pyro-Chem 551208)	711.71	112.00
21 23 16 00-0107 EA Enclosure For Secondary Cylinders, Kitchen Fire Suppression Systems (Pyro-Chem 550966)	434.53	68.31



Fire Suppression		21	21
Fire-Extinguishing Systems		21 20	
Wet-Chemical Fire-Extinguishing Systems		21 23	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
21 23 16 00-0108 Fusible Links, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0109	EA	165 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551522)	14.04		2.25	
21 23 16 00-0110	EA	212 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551523)	14.04		2.25	
21 23 16 00-0111	EA	280 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551524)	14.33		2.25	
21 23 16 00-0112	EA	360 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551525)	14.04		2.25	
21 23 16 00-0113	EA	450 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551526)	14.04		2.25	
21 23 16 00-0114	EA	500 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551527)	15.09		2.25	
21 23 16 00-0115	EA	Fusible Link Kit With 10" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550131)	24.31		3.79	
21 23 16 00-0116	EA	Fusible Link Kit With 8" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550132)	31.58		5.03	
21 23 16 00-0117	EA	Fusible Link Hanger, Kitchen Fire Suppression Systems (Pyro-Chem 550876)	56.35		25.95	
21 23 16 00-0118	EA	225 To 600 Fahrenheit, Electrical Thermal Detector, Kitchen Fire Suppression Systems (Pyro-Chem 13970-6)	312.48		57.74	
21 23 16 00-0119 Gas Valves, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0120	EA	3/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550593)	237.70		22.16	
21 23 16 00-0121	EA	1" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550594)	272.60		27.28	
21 23 16 00-0122	EA	1-1/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550595)	298.72		34.46	
21 23 16 00-0123	EA	1-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550596)	330.11		39.59	
21 23 16 00-0124	EA	2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 551049)	380.85		46.77	
21 23 16 00-0125	EA	2-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550185)	850.87		68.41	
21 23 16 00-0126	EA	3" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550186)	913.49		79.18	
21 23 16 00-0127	EA	3/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550358)	190.78		22.16	
21 23 16 00-0128	EA	1" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550359)	315.99		27.28	
21 23 16 00-0129	EA	1-1/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550360)	335.07		34.46	
21 23 16 00-0130	EA	1-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550361)	381.70		39.59	
21 23 16 00-0131	EA	2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550362)	521.57		46.77	
21 23 16 00-0132	EA	2-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550363)	989.23		68.41	
21 23 16 00-0133	EA	3" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 17643)	1,049.52		79.18	
21 23 16 00-0134 Nozzles, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0135	EA	Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem)	50.03		7.59	
21 23 16 00-0136	EA	Swivel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem)	70.02		9.64	
21 23 16 00-0137	EA	Stainless Steel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem)	245.86		9.64	
21 23 16 00-0138 Actuating Cylinders/Cartridges, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0139	EA	Carbon Dioxide Actuation Cartridge, Kitchen Fire Suppression Systems (Pyro-Chem 551059)	18.59		2.98	
21 23 16 00-0140	EA	PAC-10, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550104)	608.96		96.31	
21 23 16 00-0141	EA	PAC-200, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550690)	776.33		123.18	
21 23 16 00-0142 Circuit Monitors, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0143	EA	24 Volt DC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550303)	398.14		63.07	
21 23 16 00-0144	EA	120 Volt AC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550302)	480.34		76.00	
21 23 16 00-0145 Control Heads, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0146	EA	Mechanical Control Head, No Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551203)	439.24		69.54	
21 23 16 00-0147	EA	Mechanical Control Head With Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551200)	458.61		72.71	
21 23 16 00-0148	EA	24 Volt DC, Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551201)	597.20		94.56	
21 23 16 00-0149	EA	120 Volt AC Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551202)	685.29		108.71	
21 23 16 00-0150	EA	Control Head Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550853)	55.66		8.82	
21 23 16 00-0151 Corner Pulleys/Tees, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0152	EA	Set Screw Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 415670)	13.27		1.44	
21 23 16 00-0153	EA	Compression Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 423250)	13.92		1.85	
21 23 16 00-0154	EA	Tee Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550166)	44.62		7.08	
21 23 16 00-0155	EA	Replacement Screw For Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550272)	0.63			
21 23 16 00-0156 Switches, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0157	EA	SPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550227)	48.50		7.69	
21 23 16 00-0158	EA	DPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550237)	97.13		15.28	
21 23 16 00-0159	EA	Four Pole Double Throw Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550978)	205.54		32.41	
21 23 16 00-0160 Wire Rope/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)						
21 23 16 00-0161	LF	1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 15821)	1.08		0.31	
21 23 16 00-0162	EA	Crimps For 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 550122)	0.76		0.31	
21 23 16 00-0163	EA	High Temperature Stainless Steel Crimps, Kitchen Fire Suppression Systems (Pyro-Chem 551551)	2.40		0.41	
21 23 16 00-0164	EA	"S" Hooks, Kitchen Fire Suppression Systems (Pyro-Chem 550121)	0.51			

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0165 Replacement Parts, Kitchen Fire Suppression Systems (21 23 16 00-0100)				
21 23 16 00-0166	EA	Wet Valve Rebuilding Kit, Kitchen Fire Suppression Systems (Pyro-Chem 550698).....	46.17	7.39
21 23 16 00-0167	EA	Wet Valve Cap With Schrader Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550831)	48.16	7.69
21 23 16 00-0168	EA	Wet Spring, Kitchen Fire Suppression Systems (Pyro-Chem 550705)	5.63	0.92
21 23 16 00-0169	EA	225 psi, Wet Gage, Kitchen Fire Suppression Systems (Pyro-Chem 551236)	65.78	10.05
21 23 16 00-0170	EA	Wet Valve O-ring, Kitchen Fire Suppression Systems (Pyro-Chem 550716).....	9.28	1.44
21 23 16 00-0171	EA	Wet Piston, Kitchen Fire Suppression Systems (Pyro-Chem 550707).....	12.92	2.05
21 23 16 00-0172	EA	Wet Piston O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 550715)	5.63	0.92
21 23 16 00-0173	EA	Wet Nozzle Cap, Kitchen Fire Suppression Systems (Pyro-Chem 551528)	7.95	1.23
21 23 16 00-0174	EA	Wet Nozzle Strainer, Kitchen Fire Suppression Systems (Pyro-Chem 551529)	7.77	1.23
21 23 16 00-0175	EA	Wet Nozzle Cap O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 551530)	2.21	0.31
21 23 16 00-0176	EA	Replacement Teflon Washer For Control Head Actuator, Kitchen Fire Suppression Systems (Pyro-Chem 550257)	3.76	
21 23 16 00-0177	EA	O-Ring Lubrication, Kitchen Fire Suppression Systems (Pyro-Chem 550063)	72.00	
21 23 16 00-0178	EA	3.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 551024).....	480.90	
21 23 16 00-0179	EA	4.6 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550902).....	628.92	
21 23 16 00-0180	EA	6.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550901).....	728.76	
21 23 16 00-0181 Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)				
21 23 16 00-0182	EA	3/8" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550857)	22.54	3.49
21 23 16 00-0183	EA	1/2" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550859)	23.37	3.69
21 23 16 00-0184	EA	Wet Valve Tool, Kitchen Fire Suppression Systems (Pyro-Chem 550788).....	44.98	7.08
21 23 16 00-0185	EA	Recharge Adapter Kit, Kitchen Fire Suppression Systems (Pyro-Chem 551240).....	63.67	
21 23 16 00-0186	EA	3.0 Gallon Of Wet Chemical For Recharge, Kitchen Fire Suppression Systems (Pyro-Chem 551188).....	136.81	
21 23 16 00-0187 Pull Stations/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)				
21 23 16 00-0188	EA	Mechanical, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551074)	91.01	14.47
21 23 16 00-0189	EA	Electric, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551166).....	101.63	20.31
21 23 16 00-0190	EA	Trim Ring For Flush Mounting Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 550088)	24.31	3.79
21 23 16 00-0191	EA	Glass Rods For Pull Stations, Kitchen Fire Suppression Systems (Pyro-Chem 428661)	3.93	1.34
21 23 16 00-0192 Asco Gas Valve Control Panels (21 23 16)				
21 23 16 00-0193	EA	Relay Control Panel For AC Solenoid Valves (Asco 108D90C).....	1,476.71	225.64
21 23 16 00-0194	EA	Relay Control Panel For DC Solenoid Valves (Asco 108D10C)	1,519.28	225.64
21 23 16 00-0195	EA	Master Control Station For Relay Control Panel For DC Solenoid Valves (Asco 216C89)	474.95	51.28
21 23 16 00-0196	EA	Emergency Stop Station For Relay Control Panel (Asco 173A19).....	447.14	51.28
21 24 Dry-Chemical Fire-Extinguishing Systems (21 20)				
21 24 16 Dry-Chemical Fire-Extinguishing Equipment (21 24)				
21 24 16 00-0001 Amerex KP Restaurant Fire Suppression Systems (21 24 16)				
Note: Amerex or equal.				
21 24 16 00-0002	EA	Agent Cylinder Assembly 3.75 Gallon (With Discharge Valve) Charged	368.83	79.59
21 24 16 00-0003	EA	Agent Cylinder Assembly 6 Gallon (With Discharge Valve) Charged	503.59	100.40
21 24 16 00-0004	EA	Recharge - KP Liquid Agent (3.75 Gallon).....	119.59	
21 24 16 00-0005	EA	Recharge - KP Liquid Agent (6 Gallon).....	210.24	
21 24 16 00-0006	EA	Bracket Assembly Agent Cylinder 3.75 Gallon (With Distribution Hose Assembly And Distribution Outlet).....	83.71	16.71
21 24 16 00-0007	EA	Bracket Assembly Agent Cylinder 6 Gallon	48.76	9.70
21 24 16 00-0008	EA	Discharge Adapter Kit 3/4 NPT - Agent Cylinder 6 Gallon	21.15	
21 24 16 00-0009	EA	Pneumatic Actuator - Agent Cylinder 6 Gallon	83.71	16.71
21 24 16 00-0010	EA	Actuator - MRM (Less N2 Cylinder And Enclosure)	210.24	41.90
21 24 16 00-0011	EA	Enclosure - MRM, Painted Steel	112.05	22.29
21 24 16 00-0012	EA	Enclosure - MRM, Stainless Steel.....	131.74	22.29
21 24 16 00-0013	EA	Cabinet, Stainless Steel (Single Cylinder System).....	333.63	66.53
21 24 16 00-0014	EA	Actuation Hose - (N2 - 1/4" x 16").....	25.18	5.01
21 24 16 00-0015	EA	Cylinder, Nitrogen - 10 CU. In. (Use For 1-10 Agent Cylinders)	112.05	22.29
21 24 16 00-0016	EA	Vent Check	20.15	4.01
21 24 16 00-0017	EA	Detector	15.11	3.00
Note: Includes bracket, linkage and conduit fittings.				
21 24 16 00-0018	EA	Fusible Link - 280 To 450 Degree F.....	5.67	1.12
21 24 16 00-0019	EA	Test Link	2.60	
21 24 16 00-0020	EA	Corner Pulley	7.81	1.56
21 24 16 00-0021	EA	Cable, 1/16" - 500 Foot Spool.....	125.89	25.07
21 24 16 00-0022	EA	Pulley Tee.....	56.64	11.26
21 24 16 00-0023	EA	Manual Pull Station (Standard)	50.36	10.03
21 24 16 00-0024	EA	Adapter Kit - Manual Pull Station (Recess Standard Pull Station)	23.64	4.68
21 24 16 00-0025	EA	Manual Pull Station (Oversized).....	56.14	11.14
21 24 16 00-0026	EA	Conduit Offset.....	11.20	2.23
21 24 16 00-0027	EA	Seal - 3/8" Pipe Thread (Quick-Seal)	15.45	3.12
21 24 16 00-0028	EA	Seal - 1/2" Pipe Thread (Quick-Seal)	12.58	2.56
21 24 16 00-0029	EA	3/8" Pipe Compression Seal	21.03	4.23
21 24 16 00-0030	EA	1/2" Pipe Compression Seal	21.03	4.23
21 24 16 00-0031	EA	Cap, Nozzle Blow-Off (Standard).....	7.66	2.89
21 24 16 00-0032	EA	Cap, Nozzle Blow-Off (High Temperature)	14.10	2.89
21 24 16 00-0033	EA	Nozzle - Fryer, Griddle - 2 Flow Points Each	25.17	5.01
21 24 16 00-0034	EA	Nozzle - Appliance, Plenum - 1 Flow Points Each	25.17	5.01



Fire Suppression		21	21
Fire-Extinguishing Systems		21 20	
Dry-Chemical Fire-Extinguishing Systems		21 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0035 EA Nozzle - Solid Fuel Charbroiler - 1 To 1-1/2 Flow Points Each.....	25.17	5.01
21 24 16 00-0036 EA Nozzle - Upright Charbroiler - 1/2 Flow Points Each.....	25.17	5.01
21 24 16 00-0037 EA Nozzle - Duct (Only) - 2 Flow Points Each.....	25.17	5.01
21 24 16 00-0038 EA Nozzle - Four Burner Range - 2 Flow Points Each.....	36.22	7.25
21 24 16 00-0039 EA Gas Valve - Mechanical - 3/4" Or 1".....	190.06	29.53
21 24 16 00-0040 EA Gas Valve - Mechanical - 1-1/4" Or 1-1/2".....	231.95	42.90
21 24 16 00-0041 EA Gas Valve - Mechanical - 2".....	286.17	50.70
21 24 16 00-0042 EA Manual Reset Relay (Required With Every Electric Gas Valve).....	317.24	63.18
21 24 16 00-0043 EA SPDT Microswitch With 18" Leads.....	16.70	3.35
21 24 16 00-0044 EA Kit Gas Valve Actuator For Use With ASCO Mechanical Gas Valve.....	26.93	5.35
21 24 16 00-0045 EA Gas Valve Trip Assembly.....	56.65	11.26
21 24 16 00-0046 Range Guard Fire Suppression Systems (21 24 16)		
Note: Range Guard or equal.		
21 24 16 00-0047 EA 1-1/4 Gallon Charged Cylinder With Valve.....	393.15	86.05
21 24 16 00-0048 EA 2-1/2 Gallon Charged Cylinder With Valve.....	490.76	107.39
21 24 16 00-0049 EA 4 Gallon Charged Cylinder With Valve.....	605.87	132.61
21 24 16 00-0050 EA 6 Gallon Charged Cylinder With Valve.....	719.64	157.43
21 24 16 00-0051 EA Vent Plug.....	16.53	3.59
21 24 16 00-0052 EA Discharge Adapter Kit.....	21.27	
21 24 16 00-0053 EA 1-1/4 Gallon Wall Bracket.....	43.76	9.54
21 24 16 00-0054 EA 2-1/2 Gallon Wall Bracket.....	46.32	10.15
21 24 16 00-0055 EA 4 Gallon Wall Bracket.....	87.48	19.18
21 24 16 00-0056 EA 6 Gallon Wall Bracket.....	96.94	21.23
21 24 16 00-0057 EA Mechanical Control Head, No Microswitch.....	341.99	74.87
21 24 16 00-0058 EA Mechanical Control Head, 1 Microswitch.....	356.79	78.05
21 24 16 00-0059 EA Mechanical Control Head, 2 Microswitches.....	409.30	89.54
21 24 16 00-0060 EA Tandem Control Head.....	311.02	68.10
21 24 16 00-0061 EA Electric Control Head, 120 Volt AC / 24 Volt DC.....	526.44	115.18
21 24 16 00-0062 EA Mechanical Control Box.....	234.27	51.28
21 24 16 00-0063 EA Tandem Control Box.....	234.27	51.28
21 24 16 00-0064 EA Mechanical Control Box Adapter.....	68.67	15.08
21 24 16 00-0065 EA A+ Control head With 1 Pressure Operated Actuator.....	206.37	45.13
21 24 16 00-0066 EA Pressure Operated Actuator.....	84.82	18.57
21 24 16 00-0067 EA BMCS-1 Nitrogen Cylinder.....	137.33	30.05
21 24 16 00-0068 EA BMCS-1 Actuator Assembly.....	140.02	30.66
21 24 16 00-0069 EA BMCS-1 Mounting Bracket.....	34.33	7.49
21 24 16 00-0070 EA BMCS-7 Nitrogen Cylinder.....	396.26	86.67
21 24 16 00-0071 EA BMCS-7 Mounting Bracket.....	84.82	18.57
21 24 16 00-0072 EA BMCS-7 Discharge Adapter Kit.....	84.82	18.57
21 24 16 00-0073 EA Check Valve.....	77.73	22.05
21 24 16 00-0074 EA Vent Check For Use With BMCS Systems.....	38.37	8.41
21 24 16 00-0075 EA Check Valve, (Schrader Flare Fitting) For Pressure Operated Actuator.....	16.70	3.65
21 24 16 00-0076 EA Replacement Receiver Gasket For BMCS-Actuator Assembly.....	4.40	
21 24 16 00-0077 EA Pneumatic Control Head For Slave Cylinders.....	87.52	19.18
21 24 16 00-0078 EA Nozzles; ADP, F, R And GRW.....	40.12	8.82
21 24 16 00-0079 EA Nozzles; DM And LPF.....	44.70	9.74
21 24 16 00-0080 EA Swivel Adapter.....	28.28	6.15
21 24 16 00-0081 EA Corner Pulley.....	12.11	2.66
21 24 16 00-0082 LF 1/16" Stainless Steel Cable.....	0.68	0.31
21 24 16 00-0083 EA Cable Crimp Sleeve.....	0.80	0.31
21 24 16 00-0084 EA "S" Hook.....	0.57	0.20
21 24 16 00-0085 EA Electrical Metallic Tubing (EMT) Adapter, 1/2" Electrical Metallic Tubing (EMT) x 3/8" NPT.....	41.71	9.13
21 24 16 00-0086 EA Cable Clamp.....	3.73	0.82
21 24 16 00-0087 EA Nico Sleeves - 1/16" Cable.....	0.56	0.20
21 24 16 00-0088 EA 3/8" Cable Anchor.....	44.09	9.64
21 24 16 00-0089 EA 1/2" Cable Anchor.....	44.09	9.64
21 24 16 00-0090 EA Mechanical Remote Manual Release (Pull Cable).....	71.29	15.59
21 24 16 00-0091 EA Tee Pulley, Use For Mechanical Pull And Gas Valve.....	76.11	16.62
21 24 16 00-0092 EA Surface Remote Manual Release, End-of-line.....	89.15	19.48
21 24 16 00-0093 EA Surface Remote Manual Release, In line Conservation Kit.....	27.94	6.15
21 24 16 00-0094 EA Surface Remote Manual Release, In line And End Of Line.....	117.04	25.53
21 24 16 00-0095 EA Recessed Remote Manual Release, End-of-line.....	89.15	19.48
21 24 16 00-0096 EA Recessed Remote Manual Release, In Line Kit.....	106.27	23.28
21 24 16 00-0097 EA Pulley Tee, Remote In Line Only.....	19.10	4.20
21 24 16 00-0098 EA Fusible Link Housing Kit With 1 - Bracket, 2 - 1/2" Electrical Metallic Tubing (EMT) Connector, 1 - "S" Hook, 8 - Cable Crimp Sleeve.....	21.22	4.61
21 24 16 00-0099 EA Fusible Link 165F To 360F.....	6.96	1.54
21 24 16 00-0100 EA Fusible Link 500F.....	10.10	1.54
21 24 16 00-0101 EA Standard Detector With 1 - 360F link, 2 - "S" Hooks, 2 - Crimp Sleeves.....	21.22	4.61
21 24 16 00-0102 EA Standard Detector Kit With 1 - Large Bracket, 2 - "S" Hooks, 2 - Cable Crimp Sleeve.....	16.86	4.61
21 24 16 00-0103 EA Quartzoid Link 400 F.....	114.34	25.02
21 24 16 00-0104 EA Quartzoid Link 500 F.....	114.34	25.02
21 24 16 00-0105 EA SPDT Micro Switch For Use With A Plus Control Box.....	40.99	8.93
21 24 16 00-0106 EA DPDT Micro Switch For Use With A Plus Control Box.....	71.29	15.59
21 24 16 00-0107 EA SPDT Micro Switch For Use With A Mechanical Control Box.....	42.38	9.23
21 24 16 00-0108 EA DPDT Micro Switch For Use With A Mechanical Control Box.....	73.45	16.10
21 24 16 00-0109 EA SPDT Micro Switch For Use With PRCB.....	53.81	11.79
21 24 16 00-0110 EA DPDT Micro Switch For Use With PRCB.....	77.62	16.92
21 24 16 00-0111 EA Pressure Switch, SPDT (Fire Dept. Tie In).....	227.35	49.74

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 24 Dry-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0112 EA Circuit Monitor 12 Or 24 Volt DC.....	102.25	22.36
21 24 16 00-0113 EA Circuit Monitor 120 Volt AC.....	102.25	22.36
21 24 16 00-0114 EA Electric Manual Pull Station	74.66	16.31
21 24 16 00-0115 EA 6", 24 Volt DC, Motor Bell	41.70	9.13
21 24 16 00-0116 EA 10", 115 Volt AC Motor Bell	59.20	12.92
21 24 16 00-0117 EA Fuse, 1.2 For ECH	4.81	1.03
21 24 16 00-0118 EA Indicator Lamp 12 Or 24 Volt DC	21.22	4.61
21 24 16 00-0119 EA Indicator Lamp 120 Volt AC	21.22	4.61
21 24 16 00-0120 EA B-10 Manual Station Dual Action, SPDT	78.03	17.03
21 24 16 00-0121 EA B-11 Manual Station Dual Action, DPDT	86.10	18.87
21 24 16 00-0122 EA Break Rods For B10/B11 Manual Pull Station	3.07	1.34
21 24 16 00-0123 EA Spare Key For B10/B11 Manual Stations	10.76	2.36
21 24 16 00-0124 EA MT-24-LSM-VAR Multitone Signal With 15/75cd Strobe, 24 Volt, Flush Grill	115.70	25.33
21 24 16 00-0125 EA Suppression Abort Station	122.42	26.77
21 24 16 00-0126 EA Suppression Abort Station With Surface Mount Back Box	142.60	31.17
21 24 16 00-0127 EA Surface Mount Back Box	47.08	10.25
21 24 16 00-0128 EA Single Hazard Control Unit, 120 Volt AC IP	874.42	191.08
21 24 16 00-0129 EA Single Hazard Control Unit, 240 Volt AC IP	874.42	191.08
21 24 16 00-0130 EA 1 Lead Acid Battery; 24 Volt DC, 1.2 A.H.	72.65	15.89
21 24 16 00-0131 EA Accessory Kit - End-of-line Resistors (10K Ohms, 1/2 W)	2.92	0.71
21 24 16 00-0132 EA Spare Scorpio Circuit Board	632.21	
21 24 16 00-0133 EA Extra Scorpio Key	10.76	
21 24 16 00-0134 EA Extra Scorpio Manual.....	6.73	
21 24 16 00-0135 EA Compression Seal Adapter 3/8" Pipe.....	18.29	4.00
21 24 16 00-0136 EA Compression Seal Adapter 1/2" Tubing/ 1/4" Pipe.....	19.88	4.30
21 24 16 00-0137 EA Compression Seal Adapter 5/8" Tubing/ 3/8" Pipe.....	23.91	5.23
21 24 16 00-0138 EA Compression Seal Adapter 3/4" Tubing/ 1/2" Pipe.....	25.56	5.54
21 24 16 00-0139 EA Quik Seal Adapter 3/8" NPT Female	19.88	4.30
21 24 16 00-0140 EA Quik Seal Adapter 1/2" NPT Female	19.88	4.30
21 24 16 00-0141 EA Quik Seal Adapter 3/4" NPT Female	34.00	7.49
21 24 16 00-0142 EA Quik Seal Adapter 1" NPT Female	45.06	9.84
21 24 16 00-0143 EA Quik Patch (Up To 1-1/8" Diameter)	19.88	4.30
21 24 16 00-0144 EA 1-1/4 Gallon Karbaloy Charge	44.21	
21 24 16 00-0145 EA 2-1/2 Gallon Karbaloy Charge	76.00	
21 24 16 00-0146 EA 4 Gallon Karbaloy Charge.....	114.87	
21 24 16 00-0147 EA 6 Gallon Karbaloy Charge.....	168.10	
21 24 16 00-0148 EA Inlet Flushing Adapter.....	32.96	7.18
21 24 16 00-0149 EA 1/2" Flushing Adapter (Outlet).....	32.96	7.18
21 24 16 00-0150 EA 1/8" Flushing Adapter (Outlet).....	32.96	7.18
21 24 16 00-0151 EA 1/4" Flushing Adapter (Outlet).....	32.96	7.18
21 24 16 00-0152 EA 3/8" Flushing Adapter (Outlet).....	32.96	7.18
21 24 16 00-0153 EA Recharge Adapter (Old Style Cylinder Valve Assembly Only).....	45.73	
21 24 16 00-0154 EA Instruction Label (In Case Of Fire) - MCB	3.83	
21 24 16 00-0155 EA Caution Sign (Turn On Fan).....	4.40	
21 24 16 00-0156 EA Inspection Label (Authorized installers only).....	3.38	
21 24 16 00-0157 EA Label, Warning, A+ Control Box.....	2.70	
21 24 16 00-0158 EA Wet Chemical System Kits, RG-1.25G Kit; #23315	578.41	126.46
21 24 16 00-0159 EA Wet Chemical System Kits, RG-2.5G Kit; #23316	675.28	147.59
21 24 16 00-0160 EA Wet Chemical System Kits, RG-4GS Kit; #23317	840.76	183.79
21 24 16 00-0161 EA Wet Chemical System Kits, RG-4GT Kit; #23318	840.76	183.79
21 24 16 00-0162 EA Wet Chemical System Kits, RG-6G Kit; #23319	1,057.31	231.08
21 24 16 00-0163 EA Wet Chemical System Kits, RG Mechanical Control HD (MCH) Kit; #23320	501.08	109.54
21 24 16 00-0164 EA Wet Chemical System Kits, RG Mechanical Control Box (MCB) Kit; #23321	470.80	102.87
21 24 16 00-0165 EA Wet Chemical System Kits, A Plus Control Box Kit; #23322	380.68	83.18
21 24 16 00-0166 EA Wet Chemical System Kits, Valve Rebuild Kit; #23210	659.13	144.10
21 24 16 00-0167 EA Wet Chemical System Kits, BMCS-1 Package; #23208	603.96	132.00

21 30 Fire Pumps ⁽²¹⁾**21 31 Centrifugal Fire Pumps ^(21 30)****21 31 13 Electric-Drive, Centrifugal Fire Pumps ^(21 31)****21 31 13 00-0001 Electric-Drive Fire Pumps ^(21 31 13)**

Note: Includes fire pump, motor, motor starter, alarm panel, automatic transfer switch, and controller.

21 31 13 00-0002 EA 20 HP Electric Fire Pump.....	31,910.85	1,958.69
For Duplex Pumping System, Add	29,952.16	
21 31 13 00-0003 EA 30 HP Electric Fire Pump.....	37,029.85	2,203.53
For Duplex Pumping System, Add	34,989.55	
21 31 13 00-0004 EA 40 HP Electric Fire Pump.....	50,073.60	2,448.37
For Duplex Pumping System, Add	47,806.60	
21 31 13 00-0005 EA 50 HP Electric Fire Pump.....	61,635.66	2,690.44
For Duplex Pumping System, Add	58,945.23	
21 31 13 00-0006 EA 75 HP Electric Fire Pump.....	68,754.86	2,935.02
For Duplex Pumping System, Add	65,819.85	

21 31 16 Diesel-Drive, Centrifugal Fire Pumps ^(21 31)



Fire Suppression		21
Fire Pumps		21 30
Centrifugal Fire Pumps		21 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 31 16 00-0001			Diesel-Drive Fire Pumps (21 31 16) Note: Pumps shall be stand alone units meeting NFPA-20 specs. Includes fire pump, motor, motor starter, alarm panel, and controller.		
21 31 16 00-0002	EA		30 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	46,402.33	2,201.26
21 31 16 00-0003	EA		40 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	52,459.57	2,445.85
21 31 16 00-0004	EA		50 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	55,206.36	2,690.44
21 31 16 00-0005	EA		75 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	62,733.03	2,935.02
21 31 16 00-0006	EA		150 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	66,807.95	3,424.18
21 31 16 00-0007	EA		175 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	72,424.05	4,402.53
21 31 16 00-0008	EA		200 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	78,694.60	4,891.70
21 31 16 00-0009	EA		250 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	89,973.17	5,576.53
21 31 16 00-0010	EA		300 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	107,293.29	6,016.78
21 31 16 00-0011	EA		350 HP Diesel Driven Fire Pump , NFPA-20 Specific.....	125,733.55	6,848.38
21 31 16 00-0012	EA		400 HP Diesel Driven Fire Pump , NFPA-20 Specific.....	148,669.09	7,337.55
21 31 16 00-0013	EA		500 HP Diesel Driven Fire Pump , NFPA-20 Specific.....	167,100.43	7,826.71
21 31 16 00-0014			Electric Controllers For Fire Pumps (21 31 16)		
21 31 16 00-0015			Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller (21 31 16 00-0014)		
21 31 16 00-0016	EA		30 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	17,240.17	220.12
21 31 16 00-0017	EA		40 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	19,516.32	244.59
21 31 16 00-0018	EA		50 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	20,468.29	269.05
21 31 16 00-0019	EA		75 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	23,332.21	293.50
21 31 16 00-0020	EA		150 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	24,668.63	342.42
21 31 16 00-0021	EA		175 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	26,328.11	440.25
21 31 16 00-0022	EA		200 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	28,542.82	489.17
21 31 16 00-0023	EA		250 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	32,643.31	557.66
21 31 16 00-0024	EA		300 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	39,307.20	601.68
21 31 16 00-0025	EA		350 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	46,184.48	684.83
21 31 16 00-0026	EA		400 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	55,065.11	733.76
21 31 16 00-0027	EA		500 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	62,144.14	782.67

END OF SECTION 21

21	21	Fire Suppression
	21 30	Fire Pumps
	21 31	Centrifugal Fire Pumps



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Plumbing		22
Operation and Maintenance of Plumbing		22 01
Operation And Maintenance Of Plumbing Piping And Pumps		22 01 10

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing⁽²²⁾

22 01 10 Operation And Maintenance Of Plumbing Piping And Pumps^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	28.89
Note: Includes neoprene gasket			
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	30.56
Note: Includes neoprene gasket			
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	33.68
Note: Includes neoprene gasket			
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	36.19
Note: Includes neoprene gasket			
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	39.62
Note: Includes neoprene gasket			
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	50.94
Note: Includes neoprene gasket			
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	67.03
Note: Includes neoprene gasket			
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	79.42
Note: Includes neoprene gasket			
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	91.48
Note: Includes neoprene gasket			
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	44.64
Note: Includes neoprene gasket			
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	47.13
Note: Includes neoprene gasket			
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	52.21
Note: Includes neoprene gasket			
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	57.38
Note: Includes neoprene gasket			
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	63.63
Note: Includes neoprene gasket			
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	82.53
Note: Includes neoprene gasket			
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	104.07
Note: Includes neoprene gasket			
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	121.16
Note: Includes neoprene gasket			
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	138.37
Note: Includes neoprene gasket			
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	61.44
Note: Includes Buna rubber gasket			
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	64.76
Note: Includes Buna rubber gasket			
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	71.63
Note: Includes Buna rubber gasket			
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	78.60
Note: Includes Buna rubber gasket			
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	88.85
Note: Includes Buna rubber gasket			
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	110.15
Note: Includes Buna rubber gasket			
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	135.07
Note: Includes Buna rubber gasket			
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	164.08
Note: Includes Buna rubber gasket			
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	199.71
Note: Includes Buna rubber gasket			
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	206.20
Note: Includes Buna rubber gasket			
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	220.44
Note: Includes Buna rubber gasket			

22 01 40 Operation and Maintenance of Plumbing Fixtures^(22 01)

22 01 40 81 Plumbing Fixtures Replacement^(22 01 40)

22 01 40 81-0001 Fixture And/Or Trim Replacement^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s). See CSI section 22 42 00 00-0000 for faucet replacement installation and demolition prices.

22 01 40 81-0002	EA	3/8" To 1/2" Compression Shut-off Valve Replacement With 15" Polybutylene Supply Tube	57.25
22 01 40 81-0003	EA	3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory Replacement	18.72
22 01 40 81-0004	EA	Chrome Supply Lines To Sink/Lavatory Replacement, Pair	27.69

22 Plumbing**22 01 Operation and Maintenance of Plumbing****22 01 40 Operation and Maintenance of Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 40 81-0005 EA Single Bowl Sink/Lavatory Drain Line Replacement	38.83	
22 01 40 81-0006 EA Double Bowl Sink/Lavatory Drain Line Replacement	60.21	
22 01 40 81-0007 EA Shower Head, Polished Chrome, Replacement	38.13	
22 01 40 81-0008 EA Shower Arm Replacement	33.49	
22 01 40 81-0009 EA Shower Head Replacement	36.88	
22 01 40 81-0010 EA Shower Knob Replacement	31.68	
22 01 40 81-0011 EA Shower and Tub Control Trim Replacement	85.31	
Note: Excludes balancing valve.		
22 01 40 81-0012 EA Sink Basket Strainer Replacement	18.82	
22 01 40 81-0013 EA Sink Drain Without Stopper, 1-1/2" Replacement	11.64	
22 01 40 81-0014 EA Sink Drain Without Stopper, 4-1/2" Replacement	12.06	
22 01 40 81-0015 EA Sink Drain With Stopper, 1-1/2" Replacement	11.64	
22 01 40 81-0016 EA 1" Sink Rubber Stopper Replacement	8.82	
22 01 40 81-0017 EA Sink Tailpiece Extension 1-1/2" x 8" Replacement	24.04	
22 01 40 81-0018 EA Sink Trap, Adjustable, 1-1/2" Replacement	35.57	
22 01 40 81-0019 EA Lavatory Pop-Up Rod Replacement	23.48	
22 01 40 81-0020 EA Lavatory Pop-up Drain Stopper Replacement	28.77	
22 01 40 81-0021 EA Faucet Handle Replacement	30.04	
22 01 40 81-0022 EA Faucet O-Ring Replacement	24.61	
22 01 40 81-0023 EA 1-1/2" Faucet Hole Cover	15.68	
22 01 40 81-0024 EA Toilet Ballcock Replacement	36.36	
22 01 40 81-0025 EA Toilet Bowl Ring, Flat Wax, Replacement	6.96	
Note: Excludes removal of toilet.		
22 01 40 81-0026 EA Toilet Tank Replacement	142.82	
22 01 40 81-0027 EA Toilet Bowl, 10" Replacement	181.32	
22 01 40 81-0028 EA Toilet Bowl, 10", Low-Flush Watersaver, Replacement	194.27	
22 01 40 81-0029 EA Toilet Bowl, 12", Replacement	206.77	
22 01 40 81-0030 EA Toilet Bowl, Elongated, 18", Replacement	185.68	
22 01 40 81-0031 EA Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers Replacement	22.81	
22 01 40 81-0032 EA Toilet Flapper With Chain Replacement	16.57	
22 01 40 81-0033 EA Toilet Flush Tank Lever Replacement	17.98	
22 01 40 81-0034 EA Elongated Toilet Seat With Lid Replacement	92.48	
22 01 40 81-0035 EA Elongated Toilet Seat Without Lid Replacement	75.93	
22 01 40 81-0036 EA Handicap Toilet Seat Replacement, Complete With Rails	135.95	
22 01 40 81-0037 EA Diverter Tub Spout Replacement	45.40	
22 01 40 81-0038 EA Tub Spout Replacement	34.31	
22 01 40 81-0039 EA 2" Tub Stopper, Replacement	10.26	
22 01 40 81-0040 EA Tub Waste/Overflow Replacement	70.14	
22 01 40 81-0041 EA Tub Stem Bonnet Assembly Replacement	36.51	
22 01 40 81-0042 EA Faucet Bonnet Replacement	40.04	
22 01 40 81-0043 EA Faucet Diverter Stem Replacement	25.22	
22 01 40 81-0044 EA Faucet Diverter Stem And Bonnet Replacement	33.35	
22 01 40 81-0045 EA Faucet Spout Replacement	37.62	
22 01 40 81-0046 EA Faucet Stem Replacement	27.78	
22 01 40 81-0047 EA Chrome Plated Plastic Drinking Fountain Bubbler Valve With Flexible Bubbler Guard Replacement	150.02	
22 01 40 81-0048 EA Chrome Plated Brass Drinking Fountain Bubbler Valve Replacement	183.99	
22 01 40 81-0049 EA Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve Replacement	118.79	

22 05 Common Work Results for Plumbing ⁽²²⁾**22 05 13 Common Motor Requirements For Plumbing Equipment** ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 16 Expansion Fittings And Loops For Plumbing Piping ^(22 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

22 05 17 Sleeves and Sleeve Seals for Plumbing Piping ^(22 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

22 05 19 Meters And Gages For Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages, 33 19 11 00-0000 for water utility service metering.

22 05 23 General-Duty Valves For Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for valves.

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)**22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves** ^(22 05 23 00-0001)

22 05 23 00-0003 EA 3/4" 0.5 PSI Threaded Earthquake Gas Shutoff Valve	172.67	12.26
22 05 23 00-0004 EA 1" 0.5 PSI Threaded Earthquake Gas Shutoff Valve	195.40	13.93

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006 EA 1-1/4" 7 PSI Threaded Earthquake Gas Shutoff Valve	228.14	14.82
22 05 23 00-0007 EA 1-1/2" 7 PSI Threaded Earthquake Gas Shutoff Valve	307.94	17.16

22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0009 EA 3/4" 60 PSI Threaded Earthquake Gas Shutoff Valve	213.69	12.26
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		Plumbing	22
		Common Work Results for Plumbing	22 05
		General-Duty Valves For Plumbing Piping	22 05 23

22

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
22 05 23 00-0010	EA	1" 60 PSI Threaded Earthquake Gas Shutoff Valve	223.89		13.93
22 05 23 00-0011	EA	1-1/4" 60 PSI Threaded Earthquake Gas Shutoff Valve	250.93		14.82
22 05 23 00-0012	EA	1-1/2" 60 PSI Threaded Earthquake Gas Shutoff Valve	342.13		17.16
22 05 23 00-0013	EA	2" 60 PSI Threaded Earthquake Gas Shutoff Valve	785.06		20.28
22 05 23 00-0014	EA	2-1/2" 60 PSI Threaded Earthquake Gas Shutoff Valve	934.06		27.30
22 05 23 00-0015	EA	3" 60 PSI Threaded Earthquake Gas Shutoff Valve	1,211.92		31.80
22 05 23 00-0016	EA	4" 60 PSI Threaded Earthquake Gas Shutoff Valve	1,404.57		35.90
22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0001)					
22 05 23 00-0018	EA	2" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,097.40		148.54
22 05 23 00-0019	EA	3" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,352.12		174.36
22 05 23 00-0020	EA	4" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,904.75		292.30
22 05 23 00-0021	EA	6" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	3,147.97		375.93
22 05 23 00-0022	EA	8" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	8,400.27		432.32
22 05 23 00-0023 Emergency Shut-Off Valve With Fusible Link (22 05 23)					
22 05 23 00-0024 Threaded Brass, Fusible Gate Valves (Morrison Bros. 939) (22 05 23 00-0023)					
Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.					
22 05 23 00-0025	EA	1/4" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series)	60.39		17.94
For Work In Restricted Working Space, Add			9.74		
22 05 23 00-0026	EA	3/8" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series)	62.14		18.94
For Work In Restricted Working Space, Add			10.26		
22 05 23 00-0027	EA	1/2" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series)	93.45		17.94
For Work In Restricted Working Space, Add			10.79		
22 05 23 00-0028	EA	3/4" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series)	176.12		24.18
For Work In Restricted Working Space, Add			14.54		
22 05 23 00-0029	EA	1" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series)	420.60		29.30
For Work In Restricted Working Space, Add			17.60		
22 05 23 00-0030 Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0023)					
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.					
22 05 23 00-0031	EA	1-1/2" Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	335.73		17.16
22 05 23 00-0032	EA	2" Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	365.41		20.28
22 05 23 00-0033	EA	3" Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	609.18		31.80
22 05 23 00-0034 Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0023)					
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.					
22 05 23 00-0035	EA	2" Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	508.22		148.54
22 05 23 00-0036	EA	3" Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	796.18		174.36
22 05 23 00-0037	EA	4" Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	1,771.50		292.30
22 05 23 00-0038 Mud Valves (Drain Plug Valves) (22 05 23)					
Note: For settling basins, waterworks, sewage treatment plants where sedimentateous material must be flushed from system.					
22 05 23 00-0039	EA	4" Flanged End, Non Rising Stem Mud Valve	833.97		219.79
22 05 23 00-0040	EA	6" Flanged End, Non Rising Stem Mud Valve	1,005.31		307.69
22 05 23 00-0041	EA	8" Flanged End, Non Rising Stem Mud Valve	1,214.92		322.27
22 05 23 00-0042	EA	10" Flanged End, Non Rising Stem Mud Valve	1,772.50		394.72
22 05 23 00-0043	EA	12" Flanged End, Non Rising Stem Mud Valve	2,088.94		478.46
22 05 23 00-0044	EA	14" Flanged End, Non Rising Stem Mud Valve	3,779.87		615.37
22 05 23 00-0045	EA	16" Flanged End, Non Rising Stem Mud Valve	4,457.20		676.92
22 05 23 00-0046	EA	18" Flanged End, Non Rising Stem Mud Valve	4,977.33		726.15
22 05 23 00-0047	EA	24" Flanged End, Non Rising Stem Mud Valve	6,975.17		1,005.36
22 05 29 Hangers And Supports For Plumbing Piping And Equipment (22 05)					
See CSI section 23 05 29 00-0000 for hangers and supports.					
22 05 33 Heat Tracing For Plumbing Piping (22 05)					
See CSI section 23 83 13 00-0000 for heat tracing cables.					
22 05 48 Vibration And Seismic Controls For Plumbing Piping And Equipment (22 05)					
22 05 48 13 Vibration Controls For Plumbing Piping And Equipment (22 05 48)					
See CSI section 23 05 48 00-0000 for vibration and seismic control.					
22 05 53 Identification For Plumbing Piping And Equipment (22 05)					
See CSI section 23 05 53 00-0000 for identification.					

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76			Facility Drainage Piping Cleanouts (22 05)		
22 05 76 00-0001			Cast Iron Cleanout With Plug And Cover (22 05 76)		
			Note: For floor installation.		
22 05 76 00-0002			Cast Iron Cleanout With Plug And Round Or Square Cover (22 05 76 00-0001)		
22 05 76 00-0003	EA		2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	320.74	59.28
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004	EA		3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	359.18	74.33
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005	EA		4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	444.93	89.81
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006	EA		5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	603.54	100.51
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007	EA		6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	724.68	108.87
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008			Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)		
22 05 76 00-0009	EA		2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	358.54	59.28
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010	EA		3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	397.50	74.22
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011	EA		4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	483.33	89.81
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012	EA		5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	642.00	100.51
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013	EA		6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	763.04	108.87
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014			Wall Cover For Cleanout (22 05 76)		
			Note: Cover and screw only.		
22 05 76 00-0015			Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
			Note: Cover and screw only.		



Plumbing		22
Common Work Results for Plumbing		22 05
Facility Drainage Piping Cleanouts		22 05 76

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0016	EA		4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	59.94	18.61
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017	EA		5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	67.37	22.29
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018	EA		7" Diameter Wall Cover For Cleanout, Screwed.....	81.95	25.07
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019	EA		9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	121.11	27.86
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020	EA		11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	168.69	30.64
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021			Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
			Note: Cover and screw only.		
22 05 76 00-0022	EA		7" x 7" Bronze Wall Or Floor Access Cover.....	145.14	18.61
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0023	EA		9" x 9" Bronze Wall Or Floor Access Cover.....	198.00	19.50
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0024	EA		10" x 10" Bronze Wall Or Floor Access Cover.....	211.23	20.61
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0025	EA		14" x 14" Bronze Wall Or Floor Access Cover.....	236.80	23.41
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0026			Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
			Note: Cover and screw only.		
22 05 76 00-0027	EA		6" x 6" Bronze Secured Wall Access Panel.....	145.14	18.61
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0028	EA		8" x 8" Bronze Secured Wall Access Panel.....	198.00	19.50
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0029	EA		10" x 10" Bronze Secured Wall Access Panel.....	211.23	20.61
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0030	EA		12" x 12" Bronze Secured Wall Access Panel.....	236.80	23.41
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0031			Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014)		
			Note: Cover and screw only.		
22 05 76 00-0032	EA		6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	141.64	18.61
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0033	EA		8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	186.50	19.50
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0034	EA		10" x 10" Bronze Secured Hinged Access Panel, Scoriated.....	253.73	20.61
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0035	EA		12" x 12" Bronze Secured Hinged Access Panel, Scoriated.....	304.80	23.41
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0036			Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037			Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036)		
			Note: Satin smooth secured cover.		
22 05 76 00-0038	EA		2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	245.14	59.28
			For Vandal Proof Screws, Add	18.00	
			For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0039	EA		3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	288.30	74.22
			For Vandal Proof Screws, Add	18.00	
			For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0040	EA		4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	367.53	89.81
			For Vandal Proof Screws, Add	18.00	
			For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0041	EA		6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	745.04	108.87
			For Vandal Proof Screws, Add	18.00	
			For Galvanized Cast Iron Parts, Add	45.00	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 05 76 00-0042		Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036)			
		Note: Satin smooth secured cover.			
22 05 76 00-0043	EA	2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	371.74		59.28
		For Vandal Proof Screws, Add	18.00		
		For Galvanized Cast Iron Parts, Add	45.00		
22 05 76 00-0044	EA	3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	414.90		74.22
		For Vandal Proof Screws, Add	18.00		
		For Galvanized Cast Iron Parts, Add	45.00		
22 05 76 00-0045	EA	4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	485.73		89.81
		For Vandal Proof Screws, Add	18.00		
		For Galvanized Cast Iron Parts, Add	45.00		
22 05 76 00-0046	EA	6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover	916.04		108.87
		For Vandal Proof Screws, Add	18.00		
		For Galvanized Cast Iron Parts, Add	45.00		
22 05 76 00-0047		Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)			
22 05 76 00-0048	EA	2" Cleanout Tee With Cast Bronze Screw Plug	200.75		48.47
22 05 76 00-0049	EA	3" Cleanout Tee With Cast Bronze Screw Plug	222.86		52.93
22 05 76 00-0050	EA	4" Cleanout Tee With Cast Bronze Screw Plug	295.90		69.64
22 05 76 00-0051	EA	5" Cleanout Tee With Cast Bronze Screw Plug	416.92		82.46
22 05 76 00-0052	EA	6" Cleanout Tee With Cast Bronze Screw Plug	657.01		97.50
22 05 76 00-0053		Removable Cleanout Plug (22 05 76)			
22 05 76 00-0054		Threaded Bronze Plugs (22 05 76 00-0053)			
22 05 76 00-0055	EA	1-1/4", 1-1/2" Or 2" Threaded Bronze Plug	38.96		13.93
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0056	EA	2-1/2" Threaded Bronze Plug	44.20		15.15
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0057	EA	3" Threaded Bronze Plug	61.99		16.71
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0058	EA	3-1/2" Threaded Bronze Plug	70.58		19.50
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0059	EA	4" Threaded Bronze Plug	80.15		22.29
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0060	EA	5" Threaded Bronze Plug	103.24		25.07
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0061	EA	6" Threaded Bronze Plug	138.30		27.86
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0062	EA	8" Threaded Bronze Plug	208.79		30.64
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0063	EA	10" Threaded Bronze Plug	284.36		33.43
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0064		Threaded Brass Plugs (22 05 76 00-0053)			
22 05 76 00-0065	EA	1-1/2" Threaded Brass Plug, Raised Head	31.83		13.93
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0066	EA	2" Threaded Brass Plug, Raised Head	32.52		13.93
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0067	EA	2-1/2" Threaded Brass Plug, Raised Head	35.55		15.15
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0068	EA	3" Threaded Brass Plug, Raised Head	40.39		16.71
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0069	EA	3-1/2" Threaded Brass Plug, Raised Head	47.83		19.50
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0070	EA	4" Threaded Brass Plug, Raised Head	56.53		22.29
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0071	EA	4-1/2" Threaded Brass Plug, Raised Head	60.86		23.47
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0072	EA	5" Threaded Brass Plug, Raised Head	65.63		25.07
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0073	EA	6" Threaded Brass Plug, Raised Head	87.95		27.86
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0074	EA	1-1/2" Threaded Brass Plug, Countersunk Head	31.29		13.93
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0075	EA	2" Threaded Brass Plug, Countersunk Head	32.05		13.93
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0076	EA	2-1/2" Threaded Brass Plug, Countersunk Head	37.05		15.15
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0077	EA	3" Threaded Brass Plug, Countersunk Head	40.61		16.71
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0078	EA	3-1/2" Threaded Brass Plug, Countersunk Head	47.18		19.50
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0079	EA	4" Threaded Brass Plug, Countersunk Head	55.51		22.29
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0080	EA	5" Threaded Brass Plug, Countersunk Head	65.07		25.07
		For Plug Tapped For Center Screw, Add	9.50		
22 05 76 00-0081	EA	6" Threaded Brass Plug, Countersunk Head	78.96		27.86
		For Plug Tapped For Center Screw, Add	9.50		



		Plumbing	22
		Common Work Results for Plumbing	22 05
		Facility Drainage Piping Cleanouts	22 05 76

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 Plumbing Insulation⁽²²⁾

22 07 16 Plumbing Equipment Insulation^(22 07)

22 07 16 00-0001 Lavatory Insulation^(22 07 16)

22 07 16 00-0002	EA	Neoprene Insulation Kit For Under Lavatories.....	195.21	24.45
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22 07 19 Plumbing Piping Insulation^(22 07)

22 07 19 00-0001 Fiberglass Pipe Insulation^(22 07 19)

Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0002 1/2" Thick Fiberglass Pipe Insulation^(22 07 19 00-0001)

22 07 19 00-0003	LF	1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.60	2.39
		For Single Layer Of Felt Finish, Add	0.12	
		For Work In Restricted Working Space, Add	1.94	
22 07 19 00-0004	LF	3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.72	2.39
		For Single Layer Of Felt Finish, Add	0.13	
		For Work In Restricted Working Space, Add	1.94	
22 07 19 00-0005	LF	1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.19	2.50
		For Single Layer Of Felt Finish, Add	0.14	
		For Work In Restricted Working Space, Add	2.06	
22 07 19 00-0006	LF	1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.46	2.61
		For Single Layer Of Felt Finish, Add	0.15	
		For Work In Restricted Working Space, Add	2.10	
22 07 19 00-0007	LF	1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.69	2.61
		For Single Layer Of Felt Finish, Add	0.16	
		For Work In Restricted Working Space, Add	2.14	
22 07 19 00-0008	LF	2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.19	2.71
		For Single Layer Of Felt Finish, Add	0.18	
		For Work In Restricted Working Space, Add	2.25	
22 07 19 00-0009	LF	2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.56	2.82
		For Single Layer Of Felt Finish, Add	0.20	
		For Work In Restricted Working Space, Add	2.29	
22 07 19 00-0010	LF	3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.04	2.93
		For Single Layer Of Felt Finish, Add	0.23	
		For Work In Restricted Working Space, Add	2.37	
22 07 19 00-0011	LF	4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.29	3.16
		For Single Layer Of Felt Finish, Add	0.29	
		For Work In Restricted Working Space, Add	2.56	
22 07 19 00-0012	LF	6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.30	3.70
		For Single Layer Of Felt Finish, Add	0.35	
		For Work In Restricted Working Space, Add	2.99	

22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation^(22 07 19 00-0001)

22 07 19 00-0014	LF	1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.27	3.26
		For Single Layer Of Felt Finish, Add	0.14	
		For Work In Restricted Working Space, Add	2.68	
22 07 19 00-0015	LF	3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.47	3.26
		For Single Layer Of Felt Finish, Add	0.16	
		For Work In Restricted Working Space, Add	2.68	
22 07 19 00-0016	LF	1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.63	3.26
		For Single Layer Of Felt Finish, Add	0.16	
		For Work In Restricted Working Space, Add	2.72	
22 07 19 00-0017	LF	1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.96	3.37
		For Single Layer Of Felt Finish, Add	0.19	
		For Work In Restricted Working Space, Add	2.76	
22 07 19 00-0018	LF	1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.22	3.37
		For Single Layer Of Felt Finish, Add	0.20	
		For Work In Restricted Working Space, Add	2.80	
22 07 19 00-0019	LF	2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.66	3.48
		For Single Layer Of Felt Finish, Add	0.22	
		For Work In Restricted Working Space, Add	2.87	
22 07 19 00-0020	LF	2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.25	3.70
		For Single Layer Of Felt Finish, Add	0.24	
		For Work In Restricted Working Space, Add	2.99	
22 07 19 00-0021	LF	3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.81	3.80
		For Single Layer Of Felt Finish, Add	0.27	
		For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0022	LF	4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.34	4.02
		For Single Layer Of Felt Finish, Add	0.35	
		For Work In Restricted Working Space, Add	3.30	
22 07 19 00-0023	LF	6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.49	4.67
		For Single Layer Of Felt Finish, Add	0.43	
		For Work In Restricted Working Space, Add	3.72	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.07	5.22
For Single Layer Of Felt Finish, Add	0.61	
For Work In Restricted Working Space, Add	4.27	
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.62	6.19
For Single Layer Of Felt Finish, Add	0.72	
For Work In Restricted Working Space, Add	5.04	
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.14	7.07
For Single Layer Of Felt Finish, Add	0.81	
For Work In Restricted Working Space, Add	5.82	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.05	7.72
For Single Layer Of Felt Finish, Add	0.94	
For Work In Restricted Working Space, Add	6.03	
22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.03	3.36
For Single Layer Of Felt Finish, Add	0.29	
For Work In Restricted Working Space, Add	2.79	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.16	3.36
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	2.79	
22 07 19 00-0031 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.85	3.56
For Single Layer Of Felt Finish, Add	0.31	
For Work In Restricted Working Space, Add	2.96	
22 07 19 00-0032 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.26	3.63
For Single Layer Of Felt Finish, Add	0.34	
For Work In Restricted Working Space, Add	3.01	
22 07 19 00-0033 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.62	3.70
For Single Layer Of Felt Finish, Add	0.36	
For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0034 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.49	3.89
For Single Layer Of Felt Finish, Add	0.39	
For Work In Restricted Working Space, Add	3.24	
22 07 19 00-0035 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.04	3.96
For Single Layer Of Felt Finish, Add	0.43	
For Work In Restricted Working Space, Add	3.29	
22 07 19 00-0036 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.54	4.10
For Single Layer Of Felt Finish, Add	0.44	
For Work In Restricted Working Space, Add	3.41	
22 07 19 00-0037 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.07	4.43
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	3.68	
22 07 19 00-0038 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.80	5.18
For Single Layer Of Felt Finish, Add	0.58	
For Work In Restricted Working Space, Add	4.30	
22 07 19 00-0039 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.98	5.46
For Single Layer Of Felt Finish, Add	0.72	
For Work In Restricted Working Space, Add	4.54	
22 07 19 00-0040 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.75	6.53
For Single Layer Of Felt Finish, Add	0.91	
For Work In Restricted Working Space, Add	5.43	
22 07 19 00-0041 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.50	7.61
For Single Layer Of Felt Finish, Add	0.99	
For Work In Restricted Working Space, Add	6.32	
22 07 19 00-0042 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.00	8.33
For Single Layer Of Felt Finish, Add	1.14	
For Work In Restricted Working Space, Add	6.93	
22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.49	3.70
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.63	3.70
For Single Layer Of Felt Finish, Add	0.46	
For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.07	3.80
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	3.11	
22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.47	3.80
For Single Layer Of Felt Finish, Add	0.52	
For Work In Restricted Working Space, Add	3.14	
22 07 19 00-0048 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.88	3.91
For Single Layer Of Felt Finish, Add	0.55	
For Work In Restricted Working Space, Add	3.18	
22 07 19 00-0049 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.48	4.02
For Single Layer Of Felt Finish, Add	0.58	
For Work In Restricted Working Space, Add	3.30	
22 07 19 00-0050 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.28	4.13
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	3.42	
22 07 19 00-0051 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.13	4.35
For Single Layer Of Felt Finish, Add	0.67	
For Work In Restricted Working Space, Add	3.53	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0052	LF		4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.69	4.56
			For Single Layer Of Felt Finish, Add	0.76	
			For Work In Restricted Working Space, Add	3.73	
22 07 19 00-0053	LF		6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.36	5.36
			For Single Layer Of Felt Finish, Add	0.89	
			For Work In Restricted Working Space, Add	4.47	
22 07 19 00-0054	LF		8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.17	5.66
			For Single Layer Of Felt Finish, Add	1.10	
			For Work In Restricted Working Space, Add	4.72	
22 07 19 00-0055	LF		10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.32	6.77
			For Single Layer Of Felt Finish, Add	1.31	
			For Work In Restricted Working Space, Add	5.65	
22 07 19 00-0056	LF		12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.26	8.12
			For Single Layer Of Felt Finish, Add	1.44	
			For Work In Restricted Working Space, Add	6.76	
22 07 19 00-0057	LF		14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	46.97	8.85
			For Single Layer Of Felt Finish, Add	1.63	
			For Work In Restricted Working Space, Add	9.44	
22 07 19 00-0058	LF		16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.12	10.38
			For Single Layer Of Felt Finish, Add	1.85	
			For Work In Restricted Working Space, Add	9.44	
22 07 19 00-0059	LF		18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	54.01	10.91
			For Single Layer Of Felt Finish, Add	2.20	
			For Work In Restricted Working Space, Add	9.91	
22 07 19 00-0060	LF		20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	61.30	12.45
			For Single Layer Of Felt Finish, Add	2.47	
			For Work In Restricted Working Space, Add	11.33	
22 07 19 00-0061	LF		24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	71.72	15.06
			For Single Layer Of Felt Finish, Add	2.74	
			For Work In Restricted Working Space, Add	13.68	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)					
22 07 19 00-0063	LF		1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.73	4.35
			For Single Layer Of Felt Finish, Add	0.62	
			For Work In Restricted Working Space, Add	3.54	
22 07 19 00-0064	LF		3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.93	4.35
			For Single Layer Of Felt Finish, Add	0.64	
			For Work In Restricted Working Space, Add	3.54	
22 07 19 00-0065	LF		1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.57	4.35
			For Single Layer Of Felt Finish, Add	0.69	
			For Work In Restricted Working Space, Add	3.59	
22 07 19 00-0066	LF		1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.03	4.45
			For Single Layer Of Felt Finish, Add	0.73	
			For Work In Restricted Working Space, Add	3.62	
22 07 19 00-0067	LF		1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.50	4.45
			For Single Layer Of Felt Finish, Add	0.77	
			For Work In Restricted Working Space, Add	3.65	
22 07 19 00-0068	LF		2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.31	4.67
			For Single Layer Of Felt Finish, Add	0.80	
			For Work In Restricted Working Space, Add	3.80	
22 07 19 00-0069	LF		2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.38	4.78
			For Single Layer Of Felt Finish, Add	0.87	
			For Work In Restricted Working Space, Add	3.93	
22 07 19 00-0070	LF		3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.37	5.00
			For Single Layer Of Felt Finish, Add	0.93	
			For Work In Restricted Working Space, Add	4.07	
22 07 19 00-0071	LF		4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.54	5.22
			For Single Layer Of Felt Finish, Add	1.08	
			For Work In Restricted Working Space, Add	4.29	
22 07 19 00-0072	LF		6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.11	5.55
			For Single Layer Of Felt Finish, Add	1.25	
			For Work In Restricted Working Space, Add	4.88	
22 07 19 00-0073	LF		8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.56	6.63
			For Single Layer Of Felt Finish, Add	1.94	
			For Work In Restricted Working Space, Add	5.43	
22 07 19 00-0074	LF		10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.46	7.61
			For Single Layer Of Felt Finish, Add	2.37	
			For Work In Restricted Working Space, Add	6.27	
22 07 19 00-0075	LF		12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	50.00	9.46
			For Single Layer Of Felt Finish, Add	2.52	
			For Work In Restricted Working Space, Add	7.79	
22 07 19 00-0076	LF		14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	56.26	10.43
			For Single Layer Of Felt Finish, Add	2.93	
			For Work In Restricted Working Space, Add	8.50	
22 07 19 00-0077	LF		16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.99	13.26
			For Single Layer Of Felt Finish, Add	3.23	
			For Work In Restricted Working Space, Add	10.87	
22 07 19 00-0078	LF		18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	71.79	13.91
			For Single Layer Of Felt Finish, Add	3.54	
			For Work In Restricted Working Space, Add	11.41	
22 07 19 00-0079	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	81.57	15.87
			For Single Layer Of Felt Finish, Add	4.00	
			For Work In Restricted Working Space, Add	13.04	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.33	19.18
For Single Layer Of Felt Finish, Add	4.60	
For Work In Restricted Working Space, Add	15.76	
22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.57	4.80
For Single Layer Of Felt Finish, Add	0.68	
For Work In Restricted Working Space, Add	3.92	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.79	4.80
For Single Layer Of Felt Finish, Add	0.71	
For Work In Restricted Working Space, Add	3.92	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.42	4.84
For Single Layer Of Felt Finish, Add	0.76	
For Work In Restricted Working Space, Add	3.96	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.90	4.88
For Single Layer Of Felt Finish, Add	0.80	
For Work In Restricted Working Space, Add	3.98	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.47	4.93
For Single Layer Of Felt Finish, Add	0.85	
For Work In Restricted Working Space, Add	4.02	
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.30	5.12
For Single Layer Of Felt Finish, Add	0.88	
For Work In Restricted Working Space, Add	4.17	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.48	5.30
For Single Layer Of Felt Finish, Add	0.95	
For Work In Restricted Working Space, Add	4.32	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	24.58	5.49
For Single Layer Of Felt Finish, Add	1.02	
For Work In Restricted Working Space, Add	4.47	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.99	5.79
For Single Layer Of Felt Finish, Add	1.18	
For Work In Restricted Working Space, Add	4.72	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.88	6.57
For Single Layer Of Felt Finish, Add	1.37	
For Work In Restricted Working Space, Add	5.36	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	40.15	7.33
For Single Layer Of Felt Finish, Add	2.13	
For Work In Restricted Working Space, Add	5.97	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	47.76	8.45
For Single Layer Of Felt Finish, Add	2.60	
For Work In Restricted Working Space, Add	6.89	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	54.94	10.51
For Single Layer Of Felt Finish, Add	2.77	
For Work In Restricted Working Space, Add	8.57	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	61.82	11.48
For Single Layer Of Felt Finish, Add	3.22	
For Work In Restricted Working Space, Add	9.35	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	73.61	14.66
For Single Layer Of Felt Finish, Add	3.55	
For Work In Restricted Working Space, Add	11.95	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	78.89	15.40
For Single Layer Of Felt Finish, Add	3.89	
For Work In Restricted Working Space, Add	12.55	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	89.64	17.61
For Single Layer Of Felt Finish, Add	4.39	
For Work In Restricted Working Space, Add	14.35	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	105.85	21.26
For Single Layer Of Felt Finish, Add	5.05	
For Work In Restricted Working Space, Add	17.34	
22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0101 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.16	5.22
For Single Layer Of Felt Finish, Add	0.72	
For Work In Restricted Working Space, Add	4.29	
22 07 19 00-0102 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.42	5.22
For Single Layer Of Felt Finish, Add	0.75	
For Work In Restricted Working Space, Add	4.29	
22 07 19 00-0103 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.30	5.22
For Single Layer Of Felt Finish, Add	0.83	
For Work In Restricted Working Space, Add	4.32	
22 07 19 00-0104 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.82	5.33
For Single Layer Of Felt Finish, Add	0.88	
For Work In Restricted Working Space, Add	4.34	
22 07 19 00-0105 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.47	5.33
For Single Layer Of Felt Finish, Add	0.93	
For Work In Restricted Working Space, Add	4.40	
22 07 19 00-0106 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	24.33	5.55
For Single Layer Of Felt Finish, Add	0.96	
For Work In Restricted Working Space, Add	4.55	
22 07 19 00-0107 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.62	5.76
For Single Layer Of Felt Finish, Add	1.04	
For Work In Restricted Working Space, Add	4.71	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0108	LF	3"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.74	5.98
			For Single Layer Of Felt Finish, Add	1.10	
			For Work In Restricted Working Space, Add	4.88	
22 07 19 00-0109	LF	4"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.48	6.30
			For Single Layer Of Felt Finish, Add	1.29	
			For Work In Restricted Working Space, Add	5.15	
22 07 19 00-0110	LF	6"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.72	7.18
			For Single Layer Of Felt Finish, Add	1.49	
			For Work In Restricted Working Space, Add	5.85	
22 07 19 00-0111	LF	8"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.85	7.93
			For Single Layer Of Felt Finish, Add	2.32	
			For Work In Restricted Working Space, Add	6.52	
22 07 19 00-0112	LF	10"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.16	9.13
			For Single Layer Of Felt Finish, Add	2.84	
			For Work In Restricted Working Space, Add	7.52	
22 07 19 00-0113	LF	12"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.00	11.41
			For Single Layer Of Felt Finish, Add	3.03	
			For Work In Restricted Working Space, Add	9.35	
22 07 19 00-0114	LF	14"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	67.53	12.50
			For Single Layer Of Felt Finish, Add	3.52	
			For Work In Restricted Working Space, Add	10.20	
22 07 19 00-0115	LF	16"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.40	15.87
			For Single Layer Of Felt Finish, Add	3.88	
			For Work In Restricted Working Space, Add	13.04	
22 07 19 00-0116	LF	18"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	86.16	16.73
			For Single Layer Of Felt Finish, Add	4.25	
			For Work In Restricted Working Space, Add	13.70	
22 07 19 00-0117	LF	20"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	97.93	19.13
			For Single Layer Of Felt Finish, Add	4.80	
			For Work In Restricted Working Space, Add	15.66	
22 07 19 00-0118	LF	24"	Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	115.59	23.05
			For Single Layer Of Felt Finish, Add	5.52	
			For Work In Restricted Working Space, Add	18.91	
22 07 19 00-0119 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)					
22 07 19 00-0120	LF	1/2"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.89	5.87
			For Single Layer Of Felt Finish, Add	0.84	
			For Work In Restricted Working Space, Add	4.76	
22 07 19 00-0121	LF	3/4"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.18	5.87
			For Single Layer Of Felt Finish, Add	0.87	
			For Work In Restricted Working Space, Add	4.76	
22 07 19 00-0122	LF	1"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.04	5.87
			For Single Layer Of Felt Finish, Add	0.93	
			For Work In Restricted Working Space, Add	4.85	
22 07 19 00-0123	LF	1-1/4"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.74	5.98
			For Single Layer Of Felt Finish, Add	0.99	
			For Work In Restricted Working Space, Add	4.90	
22 07 19 00-0124	LF	1-1/2"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.76	6.19
			For Single Layer Of Felt Finish, Add	1.04	
			For Work In Restricted Working Space, Add	5.06	
22 07 19 00-0125	LF	2"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.71	6.41
			For Single Layer Of Felt Finish, Add	1.08	
			For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0126	LF	2-1/2"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.82	6.41
			For Single Layer Of Felt Finish, Add	1.17	
			For Work In Restricted Working Space, Add	5.30	
22 07 19 00-0127	LF	3"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.19	6.73
			For Single Layer Of Felt Finish, Add	1.25	
			For Work In Restricted Working Space, Add	5.49	
22 07 19 00-0128	LF	4"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.14	7.07
			For Single Layer Of Felt Finish, Add	1.45	
			For Work In Restricted Working Space, Add	5.79	
22 07 19 00-0129	LF	6"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.92	8.04
			For Single Layer Of Felt Finish, Add	1.68	
			For Work In Restricted Working Space, Add	6.57	
22 07 19 00-0130	LF	8"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.32	8.69
			For Single Layer Of Felt Finish, Add	2.61	
			For Work In Restricted Working Space, Add	7.33	
22 07 19 00-0131	LF	10"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	58.69	10.32
			For Single Layer Of Felt Finish, Add	3.20	
			For Work In Restricted Working Space, Add	8.47	
22 07 19 00-0132	LF	12"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	67.51	12.82
			For Single Layer Of Felt Finish, Add	3.41	
			For Work In Restricted Working Space, Add	10.52	
22 07 19 00-0133	LF	14"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	76.00	14.02
			For Single Layer Of Felt Finish, Add	3.96	
			For Work In Restricted Working Space, Add	11.49	
22 07 19 00-0134	LF	16"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	90.51	17.93
			For Single Layer Of Felt Finish, Add	4.36	
			For Work In Restricted Working Space, Add	14.69	
22 07 19 00-0135	LF	18"	Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.89	18.80
			For Single Layer Of Felt Finish, Add	4.79	
			For Work In Restricted Working Space, Add	15.39	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....108.97		21.52
For Single Layer Of Felt Finish, Add	5.28	
For Work In Restricted Working Space, Add	17.62	
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....130.06		25.98
For Single Layer Of Felt Finish, Add	6.21	
For Work In Restricted Working Space, Add	21.28	
22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....149.20		30.65
For Single Layer Of Felt Finish, Add	6.89	
For Work In Restricted Working Space, Add	25.08	
22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....169.32		36.08
For Single Layer Of Felt Finish, Add	7.44	
For Work In Restricted Working Space, Add	29.54	
22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....192.46		42.61
For Single Layer Of Felt Finish, Add	7.96	
For Work In Restricted Working Space, Add	34.99	
22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....234.44		54.17
For Single Layer Of Felt Finish, Add	9.05	
For Work In Restricted Working Space, Add	44.48	
22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....276.43		65.97
For Single Layer Of Felt Finish, Add	10.13	
For Work In Restricted Working Space, Add	53.99	
22 07 19 00-0143 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....298.53		72.50
For Single Layer Of Felt Finish, Add	10.52	
For Work In Restricted Working Space, Add	59.50	
22 07 19 00-0144 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....318.18		78.03
For Single Layer Of Felt Finish, Add	10.94	
For Work In Restricted Working Space, Add	64.19	
22 07 19 00-0145 4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0146 LF 1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....26.18		6.31
For Single Layer Of Felt Finish, Add	0.96	
For Work In Restricted Working Space, Add	5.12	
22 07 19 00-0147 LF 3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....26.51		6.31
For Single Layer Of Felt Finish, Add	0.99	
For Work In Restricted Working Space, Add	5.12	
22 07 19 00-0148 LF 1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....27.48		6.31
For Single Layer Of Felt Finish, Add	1.06	
For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0149 LF 1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....28.26		6.42
For Single Layer Of Felt Finish, Add	1.12	
For Work In Restricted Working Space, Add	5.27	
22 07 19 00-0150 LF 1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....29.38		6.66
For Single Layer Of Felt Finish, Add	1.18	
For Work In Restricted Working Space, Add	5.44	
22 07 19 00-0151 LF 2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....30.43		6.89
For Single Layer Of Felt Finish, Add	1.23	
For Work In Restricted Working Space, Add	5.60	
22 07 19 00-0152 LF 2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....31.68		6.89
For Single Layer Of Felt Finish, Add	1.33	
For Work In Restricted Working Space, Add	5.69	
22 07 19 00-0153 LF 3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....33.20		7.25
For Single Layer Of Felt Finish, Add	1.42	
For Work In Restricted Working Space, Add	5.90	
22 07 19 00-0154 LF 4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....36.48		7.60
For Single Layer Of Felt Finish, Add	1.65	
For Work In Restricted Working Space, Add	6.23	
22 07 19 00-0155 LF 6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....41.76		8.64
For Single Layer Of Felt Finish, Add	1.91	
For Work In Restricted Working Space, Add	7.07	
22 07 19 00-0156 LF 8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....54.59		9.35
For Single Layer Of Felt Finish, Add	2.97	
For Work In Restricted Working Space, Add	7.88	
22 07 19 00-0157 LF 10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....65.00		11.10
For Single Layer Of Felt Finish, Add	3.64	
For Work In Restricted Working Space, Add	9.10	
22 07 19 00-0158 LF 12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....74.61		13.79
For Single Layer Of Felt Finish, Add	3.88	
For Work In Restricted Working Space, Add	11.30	
22 07 19 00-0159 LF 14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....84.06		15.08
For Single Layer Of Felt Finish, Add	4.50	
For Work In Restricted Working Space, Add	12.35	
22 07 19 00-0160 LF 16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....99.90		19.28
For Single Layer Of Felt Finish, Add	4.96	
For Work In Restricted Working Space, Add	15.79	
22 07 19 00-0161 LF 18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....107.01		20.21
For Single Layer Of Felt Finish, Add	5.45	
For Work In Restricted Working Space, Add	16.55	
22 07 19 00-0162 LF 20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....120.29		23.14
For Single Layer Of Felt Finish, Add	6.00	
For Work In Restricted Working Space, Add	18.94	
22 07 19 00-0163 LF 24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....143.51		27.92
For Single Layer Of Felt Finish, Add	7.06	
For Work In Restricted Working Space, Add	22.88	



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0164	LF		26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	164.50	32.95
			For Single Layer Of Felt Finish, Add	7.84	
			For Work In Restricted Working Space, Add	26.96	
22 07 19 00-0165	LF		28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	186.45	38.79
			For Single Layer Of Felt Finish, Add	8.47	
			For Work In Restricted Working Space, Add	31.75	
22 07 19 00-0166	LF		30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	211.64	45.80
			For Single Layer Of Felt Finish, Add	9.06	
			For Work In Restricted Working Space, Add	37.61	
22 07 19 00-0167	LF		36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	257.42	58.23
			For Single Layer Of Felt Finish, Add	10.29	
			For Work In Restricted Working Space, Add	47.82	
22 07 19 00-0168	LF		42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	303.22	70.92
			For Single Layer Of Felt Finish, Add	11.53	
			For Work In Restricted Working Space, Add	58.04	
22 07 19 00-0169	LF		44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	327.22	77.93
			For Single Layer Of Felt Finish, Add	11.97	
			For Work In Restricted Working Space, Add	63.97	
22 07 19 00-0170	LF		46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	348.57	83.89
			For Single Layer Of Felt Finish, Add	12.45	
			For Work In Restricted Working Space, Add	69.00	
22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)					
22 07 19 00-0172	LF		1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.02	6.95
			For Single Layer Of Felt Finish, Add	1.08	
			For Work In Restricted Working Space, Add	5.63	
22 07 19 00-0173	LF		3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.38	6.95
			For Single Layer Of Felt Finish, Add	1.11	
			For Work In Restricted Working Space, Add	5.63	
22 07 19 00-0174	LF		1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.48	6.95
			For Single Layer Of Felt Finish, Add	1.19	
			For Work In Restricted Working Space, Add	5.73	
22 07 19 00-0175	LF		1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.36	7.07
			For Single Layer Of Felt Finish, Add	1.26	
			For Work In Restricted Working Space, Add	5.80	
22 07 19 00-0176	LF		1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.60	7.33
			For Single Layer Of Felt Finish, Add	1.33	
			For Work In Restricted Working Space, Add	5.98	
22 07 19 00-0177	LF		2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.76	7.58
			For Single Layer Of Felt Finish, Add	1.39	
			For Work In Restricted Working Space, Add	6.16	
22 07 19 00-0178	LF		2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.16	7.58
			For Single Layer Of Felt Finish, Add	1.50	
			For Work In Restricted Working Space, Add	6.26	
22 07 19 00-0179	LF		3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.86	7.97
			For Single Layer Of Felt Finish, Add	1.60	
			For Work In Restricted Working Space, Add	6.49	
22 07 19 00-0180	LF		4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.54	8.35
			For Single Layer Of Felt Finish, Add	1.86	
			For Work In Restricted Working Space, Add	6.85	
22 07 19 00-0181	LF		6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	46.40	9.51
			For Single Layer Of Felt Finish, Add	2.15	
			For Work In Restricted Working Space, Add	7.77	
22 07 19 00-0182	LF		8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.75	10.28
			For Single Layer Of Felt Finish, Add	3.35	
			For Work In Restricted Working Space, Add	8.67	
22 07 19 00-0183	LF		10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.37	12.21
			For Single Layer Of Felt Finish, Add	4.09	
			For Work In Restricted Working Space, Add	10.01	
22 07 19 00-0184	LF		12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	83.00	15.17
			For Single Layer Of Felt Finish, Add	4.36	
			For Work In Restricted Working Space, Add	12.44	
22 07 19 00-0185	LF		14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	93.54	16.58
			For Single Layer Of Felt Finish, Add	5.07	
			For Work In Restricted Working Space, Add	13.58	
22 07 19 00-0186	LF		16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	111.06	21.21
			For Single Layer Of Felt Finish, Add	5.58	
			For Work In Restricted Working Space, Add	17.36	
22 07 19 00-0187	LF		18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.00	22.23
			For Single Layer Of Felt Finish, Add	6.12	
			For Work In Restricted Working Space, Add	18.20	
22 07 19 00-0188	LF		20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	133.74	25.45
			For Single Layer Of Felt Finish, Add	6.75	
			For Work In Restricted Working Space, Add	20.83	
22 07 19 00-0189	LF		24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	159.55	30.72
			For Single Layer Of Felt Finish, Add	7.95	
			For Work In Restricted Working Space, Add	25.16	
22 07 19 00-0190	LF		26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	182.82	36.24
			For Single Layer Of Felt Finish, Add	8.82	
			For Work In Restricted Working Space, Add	29.66	
22 07 19 00-0191	LF		28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	207.13	42.67
			For Single Layer Of Felt Finish, Add	9.52	
			For Work In Restricted Working Space, Add	34.93	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0192	LF	30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.98 10.19 41.37	50.38
22 07 19 00-0193	LF	36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.62 11.58 52.60	64.05
22 07 19 00-0194	LF	42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	336.27 12.97 63.83	78.01
22 07 19 00-0195	LF	44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.77 13.47 70.36	85.72
22 07 19 00-0196	LF	46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	386.41 14.01 75.90	92.28
22 07 19 00-0197 Foamglas Pipe Insulation, Rigid, Closed Cell (22 07 19)				
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.				
22 07 19 00-0198 1" Thick Foamglas Pipe Insulation (22 07 19 00-0197)				
22 07 19 00-0199	LF	1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	18.83 4.82	5.31
22 07 19 00-0200	LF	3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	19.54 4.82	5.31
22 07 19 00-0201	LF	1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	20.48 4.89	5.38
22 07 19 00-0202	LF	1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	20.96 4.96	5.46
22 07 19 00-0203	LF	1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.67 5.03	5.53
22 07 19 00-0204	LF	2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.03 5.17	5.69
22 07 19 00-0205	LF	2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.74 5.38	5.92
22 07 19 00-0206	LF	3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.59 5.52	6.07
22 07 19 00-0207	LF	4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.58 5.94	6.53
22 07 19 00-0208	LF	6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	38.64 6.70	7.37
22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)				
22 07 19 00-0210	LF	1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.93 6.31	6.95
22 07 19 00-0211	LF	3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.37 6.31	6.95
22 07 19 00-0212	LF	1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.82 6.31	6.95
22 07 19 00-0213	LF	1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.85 6.52	7.18
22 07 19 00-0214	LF	1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.86 6.74	7.43
22 07 19 00-0215	LF	2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.05 6.99	7.69
22 07 19 00-0216	LF	2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.53 7.25	7.98
22 07 19 00-0217	LF	3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.83 7.53	8.28
22 07 19 00-0218	LF	4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.71 7.82	8.60
22 07 19 00-0219	LF	6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.91 8.29	9.12
22 07 19 00-0220	LF	8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.98 8.81	9.69
22 07 19 00-0221	LF	10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.16 10.34	11.38
22 07 19 00-0222	LF	12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.35 12.02	13.23
22 07 19 00-0223	LF	14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	77.06 12.44	13.68
22 07 19 00-0224	LF	16" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	84.90 13.89	15.28
22 07 19 00-0225	LF	18" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	96.44 16.43	18.07
22 07 19 00-0226	LF	20" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	107.69 18.20	20.01
22 07 19 00-0227	LF	24" Diameter Pipe, 2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	133.66 20.15	22.17



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Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation	24.80	6.07
For Work In Restricted Working Space, Add	5.52	
22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation	25.49	6.07
For Work In Restricted Working Space, Add	5.52	
22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation	26.39	6.14
For Work In Restricted Working Space, Add	5.59	
22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	27.71	6.23
For Work In Restricted Working Space, Add	5.66	
22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	29.05	6.30
For Work In Restricted Working Space, Add	5.73	
22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation	32.33	6.53
For Work In Restricted Working Space, Add	5.94	
22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	33.88	6.77
For Work In Restricted Working Space, Add	6.15	
22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation	36.29	6.99
For Work In Restricted Working Space, Add	6.36	
22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation	40.72	7.38
For Work In Restricted Working Space, Add	6.71	
22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation	48.59	8.38
For Work In Restricted Working Space, Add	7.62	
22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation	54.09	9.35
For Work In Restricted Working Space, Add	8.49	
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation	65.66	10.77
For Work In Restricted Working Space, Add	9.79	
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation	81.36	13.39
For Work In Restricted Working Space, Add	12.17	
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation	87.01	14.61
For Work In Restricted Working Space, Add	13.29	
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation	103.23	18.68
For Work In Restricted Working Space, Add	16.99	
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation	112.34	19.62
For Work In Restricted Working Space, Add	17.83	
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation	124.47	22.42
For Work In Restricted Working Space, Add	20.38	
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation	155.86	27.09
For Work In Restricted Working Space, Add	24.63	
22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	29.90	6.58
For Work In Restricted Working Space, Add	5.99	
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	31.07	6.57
For Work In Restricted Working Space, Add	5.98	
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	32.59	6.68
For Work In Restricted Working Space, Add	6.08	
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	33.91	6.73
For Work In Restricted Working Space, Add	6.12	
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	35.26	6.79
For Work In Restricted Working Space, Add	6.17	
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	37.74	7.07
For Work In Restricted Working Space, Add	6.43	
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	40.11	7.32
For Work In Restricted Working Space, Add	6.65	
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	43.47	7.57
For Work In Restricted Working Space, Add	6.88	
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	48.58	7.98
For Work In Restricted Working Space, Add	7.25	
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	57.98	9.08
For Work In Restricted Working Space, Add	8.25	
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	64.61	10.12
For Work In Restricted Working Space, Add	9.20	
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	73.75	11.66
For Work In Restricted Working Space, Add	10.61	
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	91.82	14.50
For Work In Restricted Working Space, Add	13.18	
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	95.91	15.82
For Work In Restricted Working Space, Add	14.39	
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	113.47	20.22
For Work In Restricted Working Space, Add	18.39	
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	123.20	21.24
For Work In Restricted Working Space, Add	19.31	
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	141.62	24.27
For Work In Restricted Working Space, Add	22.07	
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	177.11	29.34
For Work In Restricted Working Space, Add	26.66	
22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation	35.92	7.00
For Work In Restricted Working Space, Add	6.37	
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation	36.62	7.00
For Work In Restricted Working Space, Add	6.37	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.67 6.47	7.12
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	38.53 6.52	7.17
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.42 6.57	7.23
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.32 6.84	7.52
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.08 7.07	7.78
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.03 7.32	8.05
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	58.09 7.72	8.49
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	63.69 8.78	9.65
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.89 9.78	10.76
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	85.69 11.28	12.41
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	99.75 14.02	15.42
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	106.87 15.31	16.83
22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	127.88 19.56	21.52
22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	136.82 20.54	22.59
22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	160.19 23.48	25.82
22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	195.76 28.37	31.21
22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.26 7.72	8.49
22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.15 7.72	8.49
22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.21 7.77	8.54
22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.25 7.82	8.59
22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.48 7.92	8.70
22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.12 8.19	9.01
22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.81 8.48	9.33
22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.98 8.78	9.65
22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.20 9.27	10.20
22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.88 10.53	11.59
22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	83.96 11.73	12.91
22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	100.32 13.54	14.90
22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	118.70 16.82	18.51
22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	123.99 18.37	20.20
22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	148.93 23.48	25.82
22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	163.46 24.65	27.12
22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	186.13 28.19	31.01
22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	228.45 34.04	37.44
22 07 19 00-0304 4" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0305 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.70 9.48	10.43
22 07 19 00-0306 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	53.84 9.48	10.43
22 07 19 00-0307 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	55.53 9.65	10.60
22 07 19 00-0308 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.04 9.76	10.73
22 07 19 00-0309 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.21 10.07	11.08



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0310	LF	2"	Diameter Pipe, 4" Thick Foamglas Insulation.....	63.87	11.41
			For Work In Restricted Working Space, Add	10.38	
22 07 19 00-0311	LF	2-1/2"	Diameter Pipe, 4" Thick Foamglas Insulation.....	68.01	11.60
			For Work In Restricted Working Space, Add	10.54	
22 07 19 00-0312	LF	3"	Diameter Pipe, 4" Thick Foamglas Insulation.....	71.37	12.02
			For Work In Restricted Working Space, Add	10.93	
22 07 19 00-0313	LF	4"	Diameter Pipe, 4" Thick Foamglas Insulation.....	78.05	13.40
			For Work In Restricted Working Space, Add	12.18	
22 07 19 00-0314	LF	6"	Diameter Pipe, 4" Thick Foamglas Insulation.....	90.10	14.39
			For Work In Restricted Working Space, Add	13.09	
22 07 19 00-0315	LF	8"	Diameter Pipe, 4" Thick Foamglas Insulation.....	101.62	15.61
			For Work In Restricted Working Space, Add	14.19	
22 07 19 00-0316	LF	10"	Diameter Pipe, 4" Thick Foamglas Insulation.....	116.50	18.54
			For Work In Restricted Working Space, Add	16.86	
22 07 19 00-0317	LF	12"	Diameter Pipe, 4" Thick Foamglas Insulation.....	136.33	23.03
			For Work In Restricted Working Space, Add	20.93	
22 07 19 00-0318	LF	14"	Diameter Pipe, 4" Thick Foamglas Insulation.....	148.26	25.15
			For Work In Restricted Working Space, Add	22.87	
22 07 19 00-0319	LF	16"	Diameter Pipe, 4" Thick Foamglas Insulation.....	176.37	32.16
			For Work In Restricted Working Space, Add	29.24	
22 07 19 00-0320	LF	18"	Diameter Pipe, 4" Thick Foamglas Insulation.....	195.88	33.70
			For Work In Restricted Working Space, Add	30.64	
22 07 19 00-0321	LF	20"	Diameter Pipe, 4" Thick Foamglas Insulation.....	219.70	38.57
			For Work In Restricted Working Space, Add	35.07	
22 07 19 00-0322	LF	24"	Diameter Pipe, 4" Thick Foamglas Insulation.....	278.27	46.61
			For Work In Restricted Working Space, Add	42.36	
22 07 19 00-0323			Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19) Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). No additional linear feet for fittings required.		
22 07 19 00-0324			3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0325	LF	1/8"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.70	3.25
			For Work In Restricted Working Space, Add	1.95	
22 07 19 00-0326	LF	1/4"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.71	3.25
			For Work In Restricted Working Space, Add	1.95	
22 07 19 00-0327	LF	3/8"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.72	3.25
			For Work In Restricted Working Space, Add	1.96	
22 07 19 00-0328	LF	1/2"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	6.97	3.37
			For Work In Restricted Working Space, Add	2.02	
22 07 19 00-0329	LF	3/4"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.24	3.48
			For Work In Restricted Working Space, Add	2.09	
22 07 19 00-0330	LF	1"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.43	3.55
			For Work In Restricted Working Space, Add	2.12	
22 07 19 00-0331	LF	1-1/4"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.64	3.60
			For Work In Restricted Working Space, Add	2.16	
22 07 19 00-0332	LF	1-1/2"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.72	3.60
			For Work In Restricted Working Space, Add	2.17	
22 07 19 00-0333	LF	2"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.90	3.60
			For Work In Restricted Working Space, Add	2.18	
22 07 19 00-0334	LF	2-1/2"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.36	3.71
			For Work In Restricted Working Space, Add	2.24	
22 07 19 00-0335	LF	3"	Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.56	3.77
			For Work In Restricted Working Space, Add	2.28	
22 07 19 00-0336			1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0337	LF	1/8"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.36	3.55
			For Work In Restricted Working Space, Add	2.12	
22 07 19 00-0338	LF	1/4"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.38	3.55
			For Work In Restricted Working Space, Add	2.12	
22 07 19 00-0339	LF	3/8"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.44	3.55
			For Work In Restricted Working Space, Add	2.14	
22 07 19 00-0340	LF	1/2"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.55	3.60
			For Work In Restricted Working Space, Add	2.16	
22 07 19 00-0341	LF	3/4"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.64	3.60
			For Work In Restricted Working Space, Add	2.18	
22 07 19 00-0342	LF	1"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.93	3.71
			For Work In Restricted Working Space, Add	2.23	
22 07 19 00-0343	LF	1-1/4"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	7.56	3.77
			For Work In Restricted Working Space, Add	2.09	
22 07 19 00-0344	LF	1-1/2"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.39	3.83
			For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0345	LF	2"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.67	3.88
			For Work In Restricted Working Space, Add	2.33	
22 07 19 00-0346	LF	2-1/2"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.18	4.00
			For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0347	LF	3"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.65	4.05
			For Work In Restricted Working Space, Add	2.43	
22 07 19 00-0348	LF	3-1/2"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.09	4.11
			For Work In Restricted Working Space, Add	2.47	
22 07 19 00-0349	LF	4"	Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.37	4.16
			For Work In Restricted Working Space, Add	2.50	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0350 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0351 LF 1/8" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.06	3.83
For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0352 LF 1/4" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.09	3.83
For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0353 LF 3/8" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.20	3.88
For Work In Restricted Working Space, Add	2.33	
22 07 19 00-0354 LF 1/2" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.59	4.00
For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0355 LF 3/4" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	8.77	4.05
For Work In Restricted Working Space, Add	2.43	
22 07 19 00-0356 LF 1" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.21	4.16
For Work In Restricted Working Space, Add	2.50	
22 07 19 00-0357 LF 1-1/4" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.60	4.23
For Work In Restricted Working Space, Add	2.53	
22 07 19 00-0358 LF 1-1/2" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.79	4.23
For Work In Restricted Working Space, Add	2.55	
22 07 19 00-0359 LF 2" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.43	4.28
For Work In Restricted Working Space, Add	2.57	
22 07 19 00-0360 LF 2-1/2" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.40	4.39
For Work In Restricted Working Space, Add	2.64	
22 07 19 00-0361 LF 3" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.51	4.45
For Work In Restricted Working Space, Add	2.67	
22 07 19 00-0362 LF 3-1/2" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.19	4.51
For Work In Restricted Working Space, Add	2.71	
22 07 19 00-0363 LF 4" Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.49	4.56
For Work In Restricted Working Space, Add	2.74	
22 07 19 00-0364 1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0365 LF 1/4" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.07	4.23
For Work In Restricted Working Space, Add	2.53	
22 07 19 00-0366 LF 3/8" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.25	4.28
For Work In Restricted Working Space, Add	2.57	
22 07 19 00-0367 LF 1/2" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.75	4.39
For Work In Restricted Working Space, Add	2.64	
22 07 19 00-0368 LF 3/4" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	9.92	4.45
For Work In Restricted Working Space, Add	2.67	
22 07 19 00-0369 LF 1" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	10.61	4.56
For Work In Restricted Working Space, Add	2.74	
22 07 19 00-0370 LF 1-1/4" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.01	4.68
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0371 LF 1-1/2" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.18	4.68
For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0372 LF 2" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	11.79	4.79
For Work In Restricted Working Space, Add	2.88	
22 07 19 00-0373 LF 2-1/2" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.29	4.91
For Work In Restricted Working Space, Add	2.94	
22 07 19 00-0374 LF 3" Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation	12.70	4.97
For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0375 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)		
Note: No additional LF for fittings required.		
22 07 19 00-0376 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0375)		
22 07 19 00-0377 LF 1/4" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	6.75	3.25
For Work In Restricted Working Space, Add	1.95	
22 07 19 00-0378 LF 3/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	6.80	3.25
For Work In Restricted Working Space, Add	1.96	
22 07 19 00-0379 LF 1/2" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.03	3.37
For Work In Restricted Working Space, Add	2.02	
22 07 19 00-0380 LF 5/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.13	3.43
For Work In Restricted Working Space, Add	2.05	
22 07 19 00-0381 LF 3/4" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.32	3.48
For Work In Restricted Working Space, Add	2.09	
22 07 19 00-0382 LF 7/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.38	3.48
For Work In Restricted Working Space, Add	2.11	
22 07 19 00-0383 LF 1" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.47	3.55
For Work In Restricted Working Space, Add	2.12	
22 07 19 00-0384 LF 1-1/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.52	3.55
For Work In Restricted Working Space, Add	2.14	
22 07 19 00-0385 LF 1-1/4" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.68	3.60
For Work In Restricted Working Space, Add	2.16	
22 07 19 00-0386 LF 1-5/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.77	3.60
For Work In Restricted Working Space, Add	2.17	
22 07 19 00-0387 LF 2" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	7.97	3.60
For Work In Restricted Working Space, Add	2.18	
22 07 19 00-0388 LF 2-1/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.10	3.65
For Work In Restricted Working Space, Add	2.19	
22 07 19 00-0389 LF 2-3/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	8.30	3.71
For Work In Restricted Working Space, Add	2.23	



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

22

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0390	LF	2-5/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.44 2.24	3.71
22 07 19 00-0391	LF	2-7/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.54 2.26	3.77
22 07 19 00-0392	LF	3-1/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.69 2.28	3.77
22 07 19 00-0393	LF	3-5/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.97 2.30	3.83
22 07 19 00-0394	LF	4-1/8" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.32 2.33	3.88
22 07 19 00-0395	LF	4-1/2" Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.67 2.35	3.90
22 07 19 00-0396 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0375)				
22 07 19 00-0397	LF	1/4" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.44 2.12	3.55
22 07 19 00-0398	LF	3/8" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.53 2.14	3.55
22 07 19 00-0399	LF	1/2" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.65 2.16	3.60
22 07 19 00-0400	LF	3/4" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.75 2.18	3.60
22 07 19 00-0401	LF	1" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.98 2.23	3.71
22 07 19 00-0402	LF	1-1/4" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.17 2.26	3.77
22 07 19 00-0403	LF	1-1/2" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.43 2.30	3.83
22 07 19 00-0404	LF	2" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.75 2.33	3.88
22 07 19 00-0405	LF	2-1/2" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.25 2.40	4.00
22 07 19 00-0406	LF	3" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.49 2.43	4.05
22 07 19 00-0407	LF	3-1/2" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.13 2.47	4.11
22 07 19 00-0408	LF	4" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.38 2.50	4.16
22 07 19 00-0409	LF	5" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.24 2.53	4.23
22 07 19 00-0410	LF	6" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.87 2.60	4.33
22 07 19 00-0411	LF	8" Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.46 2.67	4.45
22 07 19 00-0412 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0375)				
22 07 19 00-0413	LF	1/4" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.22 2.30	3.83
22 07 19 00-0414	LF	3/8" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.38 2.33	3.88
22 07 19 00-0415	LF	1/2" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.73 2.40	4.00
22 07 19 00-0416	LF	3/4" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.01 2.43	4.05
22 07 19 00-0417	LF	1" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.36 2.50	4.16
22 07 19 00-0418	LF	1-1/4" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.83 2.53	4.23
22 07 19 00-0419	LF	1-1/2" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.13 2.57	4.28
22 07 19 00-0420	LF	2" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.41 2.57	4.28
22 07 19 00-0421	LF	2-1/2" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.25 2.64	4.39
22 07 19 00-0422	LF	3" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.70 2.67	4.45
22 07 19 00-0423	LF	3-1/2" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.33 2.71	4.51
22 07 19 00-0424	LF	4" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.65 2.74	4.56
22 07 19 00-0425	LF	5" Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.85 1.39	5.44
22 07 19 00-0426	LF	6" Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.47 2.81	4.68
22 07 19 00-0427	LF	8" Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.76 2.88	4.79
22 07 19 00-0428 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0375)				
22 07 19 00-0429	LF	3/8" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.91 2.57	4.28

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0430	LF		1/2" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.22	4.39
			<i>For Work In Restricted Working Space, Add</i>	2.64	
22 07 19 00-0431	LF		3/4" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.65	4.45
			<i>For Work In Restricted Working Space, Add</i>	2.67	
22 07 19 00-0432	LF		1" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.16	4.56
			<i>For Work In Restricted Working Space, Add</i>	2.74	
22 07 19 00-0433	LF		1-1/4" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.66	4.68
			<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0434	LF		1-1/2" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.13	4.68
			<i>For Work In Restricted Working Space, Add</i>	2.84	
22 07 19 00-0435	LF		2" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.16	4.79
			<i>For Work In Restricted Working Space, Add</i>	2.88	
22 07 19 00-0436	LF		2-1/2" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.46	4.91
			<i>For Work In Restricted Working Space, Add</i>	2.94	
22 07 19 00-0437	LF		3" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.09	4.97
			<i>For Work In Restricted Working Space, Add</i>	2.98	
22 07 19 00-0438	LF		3-1/2" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.37	5.03
			<i>For Work In Restricted Working Space, Add</i>	3.01	
22 07 19 00-0439	LF		4" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.05	5.15
			<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-0440	LF		5" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.42	5.25
			<i>For Work In Restricted Working Space, Add</i>	3.15	
22 07 19 00-0441	LF		6" Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.83	5.37
			<i>For Work In Restricted Working Space, Add</i>	3.22	
22 07 19 00-0442			Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19) Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. No additional LF for fittings required.		
22 07 19 00-0443			3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0442)		
22 07 19 00-0444	LF		1/8" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	6.77	3.25
			<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-0445	LF		1/4" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	6.79	3.25
			<i>For Work In Restricted Working Space, Add</i>	1.95	
22 07 19 00-0446	LF		3/8" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	6.83	3.25
			<i>For Work In Restricted Working Space, Add</i>	1.96	
22 07 19 00-0447	LF		1/2" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.07	3.37
			<i>For Work In Restricted Working Space, Add</i>	2.02	
22 07 19 00-0448	LF		3/4" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.36	3.48
			<i>For Work In Restricted Working Space, Add</i>	2.09	
22 07 19 00-0449	LF		1" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.52	3.55
			<i>For Work In Restricted Working Space, Add</i>	2.12	
22 07 19 00-0450	LF		1-1/4" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.77	3.60
			<i>For Work In Restricted Working Space, Add</i>	2.16	
22 07 19 00-0451	LF		1-1/2" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.92	3.60
			<i>For Work In Restricted Working Space, Add</i>	2.17	
22 07 19 00-0452	LF		2" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.04	3.71
			<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-0453	LF		2-1/2" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.61	3.71
			<i>For Work In Restricted Working Space, Add</i>	2.24	
22 07 19 00-0454	LF		3" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.07	3.77
			<i>For Work In Restricted Working Space, Add</i>	2.28	
22 07 19 00-0455	LF		4" Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.21	3.88
			<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-0456			1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0442)		
22 07 19 00-0457	LF		1/8" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.48	3.55
			<i>For Work In Restricted Working Space, Add</i>	2.12	
22 07 19 00-0458	LF		1/4" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.51	3.55
			<i>For Work In Restricted Working Space, Add</i>	2.12	
22 07 19 00-0459	LF		3/8" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.57	3.55
			<i>For Work In Restricted Working Space, Add</i>	2.14	
22 07 19 00-0460	LF		1/2" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.69	3.60
			<i>For Work In Restricted Working Space, Add</i>	2.16	
22 07 19 00-0461	LF		3/4" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	7.83	3.60
			<i>For Work In Restricted Working Space, Add</i>	2.18	
22 07 19 00-0462	LF		1" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.06	3.71
			<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-0463	LF		1-1/4" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.31	3.77
			<i>For Work In Restricted Working Space, Add</i>	2.26	
22 07 19 00-0464	LF		1-1/2" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.59	3.83
			<i>For Work In Restricted Working Space, Add</i>	2.30	
22 07 19 00-0465	LF		2" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.86	3.88
			<i>For Work In Restricted Working Space, Add</i>	2.33	
22 07 19 00-0466	LF		2-1/2" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.47	4.00
			<i>For Work In Restricted Working Space, Add</i>	2.40	
22 07 19 00-0467	LF		3" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.97	4.05
			<i>For Work In Restricted Working Space, Add</i>	2.43	
22 07 19 00-0468	LF		4" Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.90	4.16
			<i>For Work In Restricted Working Space, Add</i>	2.50	



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

22

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 07 19 00-0469	3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0442)			
22 07 19 00-0470	LF 1/8" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.25		3.83
	For Work In Restricted Working Space, Add	2.30		
22 07 19 00-0471	LF 1/4" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.29		3.83
	For Work In Restricted Working Space, Add	2.30		
22 07 19 00-0472	LF 3/8" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.50		3.88
	For Work In Restricted Working Space, Add	2.33		
22 07 19 00-0473	LF 1/2" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.81		4.00
	For Work In Restricted Working Space, Add	2.40		
22 07 19 00-0474	LF 3/4" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.16		4.05
	For Work In Restricted Working Space, Add	2.43		
22 07 19 00-0475	LF 1" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.55		4.16
	For Work In Restricted Working Space, Add	2.50		
22 07 19 00-0476	LF 1-1/4" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.08		4.23
	For Work In Restricted Working Space, Add	2.53		
22 07 19 00-0477	LF 1-1/2" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.43		4.23
	For Work In Restricted Working Space, Add	2.55		
22 07 19 00-0478	LF 2" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.82		4.28
	For Work In Restricted Working Space, Add	2.57		
22 07 19 00-0479	LF 2-1/2" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.63		4.39
	For Work In Restricted Working Space, Add	2.64		
22 07 19 00-0480	LF 3" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.32		4.45
	For Work In Restricted Working Space, Add	2.67		
22 07 19 00-0481	LF 4" Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.64		4.56
	For Work In Restricted Working Space, Add	2.74		
22 07 19 00-0482	1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0442)			
22 07 19 00-0483	LF 1/8" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.53		4.23
	For Work In Restricted Working Space, Add	2.53		
22 07 19 00-0484	LF 1/4" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.56		4.23
	For Work In Restricted Working Space, Add	2.53		
22 07 19 00-0485	LF 3/8" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.70		4.28
	For Work In Restricted Working Space, Add	2.57		
22 07 19 00-0486	LF 1/2" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.01		4.39
	For Work In Restricted Working Space, Add	2.64		
22 07 19 00-0487	LF 3/4" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.49		4.45
	For Work In Restricted Working Space, Add	2.67		
22 07 19 00-0488	LF 1" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.96		4.56
	For Work In Restricted Working Space, Add	2.74		
22 07 19 00-0489	LF 1-1/4" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.44		4.68
	For Work In Restricted Working Space, Add	2.81		
22 07 19 00-0490	LF 1-1/2" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.86		4.68
	For Work In Restricted Working Space, Add	2.84		
22 07 19 00-0491	LF 2" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.72		4.79
	For Work In Restricted Working Space, Add	2.88		
22 07 19 00-0492	LF 2-1/2" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.89		4.91
	For Work In Restricted Working Space, Add	2.94		
22 07 19 00-0493	LF 3" Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	14.71		4.97
	For Work In Restricted Working Space, Add	2.98		
22 07 19 00-0494	Flexible Elastomeric Unicellular Insulation (22 07 19)			
	Note: 1/2" thick, for refrigeration piping.			
22 07 19 00-0495	LF 1/2" Pipe, (5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	7.62		3.60
	For Work In Restricted Working Space, Add	2.16		
	For 3/8" Thick Covering, Deduct	-0.61		
	For 3/4" Thick Covering, Add	1.04		
	For 1" Thick Covering, Add	2.01		
22 07 19 00-0496	LF 3/4" Pipe, (7/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	7.74		3.60
	For Work In Restricted Working Space, Add	2.18		
	For 3/8" Thick Covering, Deduct	-0.63		
	For 3/4" Thick Covering, Add	1.09		
	For 1" Thick Covering, Add	2.11		
22 07 19 00-0497	LF 1" Pipe, (1-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	7.96		3.71
	For Work In Restricted Working Space, Add	2.23		
	For 3/8" Thick Covering, Deduct	-0.65		
	For 3/4" Thick Covering, Add	1.14		
	For 1" Thick Covering, Add	2.20		
22 07 19 00-0498	LF 1-1/4" Pipe, (1-3/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	8.19		3.77
	For Work In Restricted Working Space, Add	2.26		
	For 3/8" Thick Covering, Deduct	-0.69		
	For 3/4" Thick Covering, Add	1.25		
	For 1" Thick Covering, Add	2.40		
22 07 19 00-0499	LF 1-1/2" Pipe, (1-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	8.44		3.83
	For Work In Restricted Working Space, Add	2.30		
	For 3/8" Thick Covering, Deduct	-0.73		
	For 3/4" Thick Covering, Add	1.36		
	For 1" Thick Covering, Add	2.60		
22 07 19 00-0500	LF 2" Pipe, (2-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover	8.69		3.88
	For Work In Restricted Working Space, Add	2.33		
	For 3/8" Thick Covering, Deduct	-0.78		
	For 3/4" Thick Covering, Add	1.47		
	For 1" Thick Covering, Add	2.81		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0501	LF		2-1/2" Pipe, (2-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	9.25 2.40 -0.87 1.74 3.30	4.00
22 07 19 00-0502	LF		3" Pipe, (3-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	9.68 2.43 -0.96 1.99 3.74	4.05
22 07 19 00-0503	LF		3-1/2" Pipe, (3-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	10.09 2.47 -1.04 2.22 4.17	4.11
22 07 19 00-0504	LF		4" Pipe, (4-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	10.50 2.50 -1.13 2.46 4.60	4.16
22 07 19 00-0505			Insulation Foam Rubber (22 07 19)		
22 07 19 00-0506			Covering 4x6 Sheet (22 07 19 00-0505)		
22 07 19 00-0507	SF		1" Thick Foam Rubber Sheet Insulation.....	19.12	7.72
22 07 19 00-0508			Insulation Protective Jacketing (22 07 19) Note: Jacketing only and must be added to insulation prices.		
22 07 19 00-0509			Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0508)		
22 07 19 00-0510			Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0508)		
22 07 19 00-0511	SF		0.006" Aluminum Insulation Jacket With Bands.....	16.04	6.96
22 07 19 00-0512	SF		0.010" Aluminum Insulation Jacket With Bands.....	16.21	6.96
22 07 19 00-0513	SF		0.016" Aluminum Insulation Jacket With Bands.....	16.37	6.96
22 07 19 00-0514	SF		0.020" Aluminum Insulation Jacket With Bands.....	16.52	6.96
22 07 19 00-0515	SF		0.024" Aluminum Insulation Jacket With Bands.....	16.66	6.96
22 07 19 00-0516			16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0509)		
22 07 19 00-0517	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.17 0.00 0.01	1.98
22 07 19 00-0518	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.44 0.00 0.01	2.02
22 07 19 00-0519	LF		1" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.71 0.00 0.01	2.07
22 07 19 00-0520	LF		1-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.99 0.01 0.01	2.12
22 07 19 00-0521	LF		1-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.20 0.01 0.01	2.15
22 07 19 00-0522	LF		1-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.40 0.01 0.02	2.18
22 07 19 00-0523	LF		2" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.66 0.01 0.02	2.23
22 07 19 00-0524	LF		2-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.94 0.01 0.02	2.27
22 07 19 00-0525	LF		2-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.22 0.01 0.02	2.32
22 07 19 00-0526	LF		2-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.45 0.01 0.03	2.36
22 07 19 00-0527	LF		3" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.75 0.01 0.03	2.41
22 07 19 00-0528	LF		3-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.05 0.01 0.03	2.47
22 07 19 00-0529	LF		3-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.36 0.01 0.03	2.52
22 07 19 00-0530	LF		3-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.62 0.01 0.03	2.57



	Plumbing	22
	Plumbing Insulation	22 07
	Plumbing Piping Insulation	22 07 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0531 LF 4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	11.95 0.01 0.04	2.63
22 07 19 00-0532 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	12.29 0.01 0.04	2.70
22 07 19 00-0533 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	12.66 0.02 0.04	2.77
22 07 19 00-0534 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	12.96 0.02 0.04	2.82
22 07 19 00-0535 LF 5" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.34 0.02 0.04	2.89
22 07 19 00-0536 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	13.73 0.02 0.05	2.98
22 07 19 00-0537 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.06 0.02 0.05	3.04
22 07 19 00-0538 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.50 0.02 0.05	3.13
22 07 19 00-0539 LF 6" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	14.95 0.02 0.05	3.22
22 07 19 00-0540 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.23 0.02 0.05	3.27
22 07 19 00-0541 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.51 0.02 0.06	3.32
22 07 19 00-0542 LF 7" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	15.97 0.02 0.06	3.40
22 07 19 00-0543 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	16.37 0.02 0.06	3.48
22 07 19 00-0544 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	16.68 0.03 0.06	3.54
22 07 19 00-0545 LF 8" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	17.08 0.03 0.07	3.60
22 07 19 00-0546 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	17.47 0.03 0.07	3.65
22 07 19 00-0547 LF 9" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	18.02 0.03 0.08	3.75
22 07 19 00-0548 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	18.45 0.03 0.08	3.81
22 07 19 00-0549 LF 10" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	18.88 0.03 0.08	3.88
22 07 19 00-0550 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	19.32 0.04 0.09	3.95
22 07 19 00-0551 LF 11" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	19.92 0.04 0.09	4.06
22 07 19 00-0552 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	20.40 0.04 0.10	4.14
22 07 19 00-0553 LF 12" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	20.89 0.04 0.10	4.22
22 07 19 00-0554 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	21.55 0.04 0.10	4.35
22 07 19 00-0555 LF 13" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	21.89 0.04 0.11	4.39
22 07 19 00-0556 LF 14" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	22.40 0.05 0.12	4.43
22 07 19 00-0557 LF 15" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	23.08 0.05 0.12	4.53
22 07 19 00-0558 LF 16" ID, 0.016" Aluminum Insulation Jacketing For Stucco Embossed, Add For Corrugated, Add	23.60 0.05 0.13	4.57

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0559	LF	17" ID, 0.016" Aluminum Insulation Jacketing.....	24.31	4.67	
		For Stucco Embossed, Add	0.06		
		For Corrugated, Add	0.14		
22 07 19 00-0560	LF	18" ID, 0.016" Aluminum Insulation Jacketing.....	24.75	4.72	
		For Stucco Embossed, Add	0.06		
		For Corrugated, Add	0.15		
22 07 19 00-0561	LF	19" ID, 0.016" Aluminum Insulation Jacketing.....	25.59	4.83	
		For Stucco Embossed, Add	0.06		
		For Corrugated, Add	0.16		
22 07 19 00-0562	LF	20" ID, 0.016" Aluminum Insulation Jacketing.....	26.14	4.88	
		For Stucco Embossed, Add	0.07		
		For Corrugated, Add	0.17		
22 07 19 00-0563	LF	21" ID, 0.016" Aluminum Insulation Jacketing.....	26.91	5.00	
		For Stucco Embossed, Add	0.07		
		For Corrugated, Add	0.17		
22 07 19 00-0564	LF	22" ID, 0.016" Aluminum Insulation Jacketing.....	27.46	5.06	
		For Stucco Embossed, Add	0.07		
		For Corrugated, Add	0.18		
22 07 19 00-0565	LF	23" ID, 0.016" Aluminum Insulation Jacketing.....	28.27	5.18	
		For Stucco Embossed, Add	0.08		
		For Corrugated, Add	0.19		
22 07 19 00-0566	LF	24" ID, 0.016" Aluminum Insulation Jacketing.....	28.85	5.24	
		For Stucco Embossed, Add	0.08		
		For Corrugated, Add	0.20		
22 07 19 00-0567 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0509)					
22 07 19 00-0568	LF	1/2" ID, 0.020" Aluminum Insulation Jacketing.....	9.03	2.17	
		For Stucco Embossed, Add	0.00		
		For Corrugated, Add	0.01		
22 07 19 00-0569	LF	3/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.33	2.22	
		For Stucco Embossed, Add	0.00		
		For Corrugated, Add	0.01		
22 07 19 00-0570	LF	1" ID, 0.020" Aluminum Insulation Jacketing.....	9.66	2.28	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.01		
22 07 19 00-0571	LF	1-1/4" ID, 0.020" Aluminum Insulation Jacketing	9.98	2.33	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.02		
22 07 19 00-0572	LF	1-1/2" ID, 0.020" Aluminum Insulation Jacketing	10.22	2.37	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.02		
22 07 19 00-0573	LF	1-3/4" ID, 0.020" Aluminum Insulation Jacketing	10.46	2.40	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.02		
22 07 19 00-0574	LF	2" ID, 0.020" Aluminum Insulation Jacketing.....	10.76	2.45	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.02		
22 07 19 00-0575	LF	2-1/4" ID, 0.020" Aluminum Insulation Jacketing	11.06	2.50	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.03		
22 07 19 00-0576	LF	2-1/2" ID, 0.020" Aluminum Insulation Jacketing	11.40	2.55	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.03		
22 07 19 00-0577	LF	2-3/4" ID, 0.020" Aluminum Insulation Jacketing	11.66	2.60	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.03		
22 07 19 00-0578	LF	3" ID, 0.020" Aluminum Insulation Jacketing.....	12.00	2.65	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.03		
22 07 19 00-0579	LF	3-1/4" ID, 0.020" Aluminum Insulation Jacketing	12.35	2.71	
		For Stucco Embossed, Add	0.01		
		For Corrugated, Add	0.04		
22 07 19 00-0580	LF	3-1/2" ID, 0.020" Aluminum Insulation Jacketing	12.71	2.78	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.04		
22 07 19 00-0581	LF	3-3/4" ID, 0.020" Aluminum Insulation Jacketing	13.01	2.83	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.04		
22 07 19 00-0582	LF	4" ID, 0.020" Aluminum Insulation Jacketing.....	13.38	2.89	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.04		
22 07 19 00-0583	LF	4-1/4" ID, 0.020" Aluminum Insulation Jacketing	13.77	2.98	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.05		
22 07 19 00-0584	LF	4-1/2" ID, 0.020" Aluminum Insulation Jacketing	14.19	3.05	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.05		
22 07 19 00-0585	LF	4-3/4" ID, 0.020" Aluminum Insulation Jacketing	14.53	3.11	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.05		
22 07 19 00-0586	LF	5" ID, 0.020" Aluminum Insulation Jacketing.....	14.96	3.19	
		For Stucco Embossed, Add	0.02		
		For Corrugated, Add	0.06		



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0587	LF	5-1/4" ID, 0.020" Aluminum Insulation Jacketing	.....	15.42	3.28
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0588	LF	5-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	15.79	3.35
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0589	LF	5-3/4" ID, 0.020" Aluminum Insulation Jacketing	.....	16.29	3.44
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0590	LF	6" ID, 0.020" Aluminum Insulation Jacketing	.....	16.80	3.54
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0591	LF	6-1/4" ID, 0.020" Aluminum Insulation Jacketing	.....	17.11	3.60
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0592	LF	6-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	17.43	3.65
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0593	LF	7" ID, 0.020" Aluminum Insulation Jacketing	.....	17.97	3.74
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0594	LF	7-1/4" ID, 0.020" Aluminum Insulation Jacketing	.....	18.43	3.83
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0595	LF	7-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	18.78	3.89
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0596	LF	8" ID, 0.020" Aluminum Insulation Jacketing	.....	19.25	3.96
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0597	LF	8-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	19.70	4.02
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0598	LF	9" ID, 0.020" Aluminum Insulation Jacketing	.....	20.33	4.12
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0599	LF	9-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	20.83	4.19
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0600	LF	10" ID, 0.020" Aluminum Insulation Jacketing	.....	21.33	4.27
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0601	LF	10-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	21.85	4.35
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0602	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	.....	22.54	4.47
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0603	LF	11-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	23.10	4.55
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0604	LF	12" ID, 0.020" Aluminum Insulation Jacketing	.....	23.65	4.64
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0605	LF	12-1/2" ID, 0.020" Aluminum Insulation Jacketing	.....	24.41	4.78
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0606	LF	13" ID, 0.020" Aluminum Insulation Jacketing	.....	24.82	4.83
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0607	LF	14" ID, 0.020" Aluminum Insulation Jacketing	.....	25.43	4.88
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0608	LF	15" ID, 0.020" Aluminum Insulation Jacketing	.....	26.24	4.99
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0609	LF	16" ID, 0.020" Aluminum Insulation Jacketing	.....	26.86	5.04
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0610	LF	17" ID, 0.020" Aluminum Insulation Jacketing	.....	27.70	5.15
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0611	LF	18" ID, 0.020" Aluminum Insulation Jacketing	.....	28.21	5.20
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0612	LF	19" ID, 0.020" Aluminum Insulation Jacketing	.....	29.22	5.32
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0613	LF	20" ID, 0.020" Aluminum Insulation Jacketing	.....	29.88	5.38
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0614	LF	21" ID, 0.020" Aluminum Insulation Jacketing	.....	30.78	5.50
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0615	LF	22" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.43 0.09 0.23	5.56
22 07 19 00-0616	LF	23" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.38 0.10 0.24	5.69
22 07 19 00-0617	LF	24" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.07 0.10 0.25	5.76
22 07 19 00-0618 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0509)				
22 07 19 00-0619	LF	1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.90 0.00 0.01	2.37
22 07 19 00-0620	LF	3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.24 0.01 0.01	2.42
22 07 19 00-0621	LF	1" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.59 0.01 0.02	2.48
22 07 19 00-0622	LF	1-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.96 0.01 0.02	2.54
22 07 19 00-0623	LF	1-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.23 0.01 0.02	2.58
22 07 19 00-0624	LF	1-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.50 0.01 0.03	2.62
22 07 19 00-0625	LF	2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.84 0.01 0.03	2.67
22 07 19 00-0626	LF	2-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.19 0.01 0.03	2.73
22 07 19 00-0627	LF	2-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.56 0.01 0.04	2.79
22 07 19 00-0628	LF	2-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.86 0.02 0.04	2.83
22 07 19 00-0629	LF	3" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.25 0.02 0.04	2.89
22 07 19 00-0630	LF	3-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.64 0.02 0.04	2.97
22 07 19 00-0631	LF	3-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.03 0.02 0.05	3.04
22 07 19 00-0632	LF	3-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.36 0.02 0.05	3.09
22 07 19 00-0633	LF	4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.78 0.02 0.05	3.17
22 07 19 00-0634	LF	4-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.23 0.02 0.06	3.24
22 07 19 00-0635	LF	4-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.69 0.02 0.06	3.33
22 07 19 00-0636	LF	4-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.07 0.03 0.06	3.39
22 07 19 00-0637	LF	5" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.55 0.03 0.07	3.48
22 07 19 00-0638	LF	5-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.06 0.03 0.07	3.58
22 07 19 00-0639	LF	5-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.48 0.03 0.07	3.65
22 07 19 00-0640	LF	5-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.04 0.03 0.08	3.75
22 07 19 00-0641	LF	6" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.61 0.03 0.08	3.86
22 07 19 00-0642	LF	6-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.96 0.03 0.08	3.92



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0643	LF	6-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	19.32	3.98
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0644	LF	7" ID, 0.024" Aluminum Insulation Jacketing	.....	19.92	4.08
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0645	LF	7-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	20.43	4.17
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0646	LF	7-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	20.83	4.24
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0647	LF	8" ID, 0.024" Aluminum Insulation Jacketing	.....	21.36	4.31
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0648	LF	8-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	21.89	4.38
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0649	LF	9" ID, 0.024" Aluminum Insulation Jacketing	.....	22.58	4.49
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0650	LF	9-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	23.15	4.57
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0651	LF	10" ID, 0.024" Aluminum Insulation Jacketing	.....	23.72	4.65
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0652	LF	10-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	24.31	4.74
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0653	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	.....	25.08	4.87
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0654	LF	11-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	25.71	4.97
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0655	LF	12" ID, 0.024" Aluminum Insulation Jacketing	.....	26.34	5.07
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0656	LF	12-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	27.19	5.22
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0657	LF	13" ID, 0.024" Aluminum Insulation Jacketing	.....	27.65	5.27
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0658	LF	14" ID, 0.024" Aluminum Insulation Jacketing	.....	28.37	5.33
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0659	LF	15" ID, 0.024" Aluminum Insulation Jacketing	.....	29.29	5.44
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0660	LF	16" ID, 0.024" Aluminum Insulation Jacketing	.....	30.03	5.49
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0661	LF	17" ID, 0.024" Aluminum Insulation Jacketing	.....	30.97	5.61
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0662	LF	18" ID, 0.024" Aluminum Insulation Jacketing	.....	31.56	5.67
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	
22 07 19 00-0663	LF	19" ID, 0.024" Aluminum Insulation Jacketing	.....	32.72	5.80
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0664	LF	20" ID, 0.024" Aluminum Insulation Jacketing	.....	33.48	5.86
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.25	
22 07 19 00-0665	LF	21" ID, 0.024" Aluminum Insulation Jacketing	.....	34.51	6.00
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.26	
22 07 19 00-0666	LF	22" ID, 0.024" Aluminum Insulation Jacketing	.....	35.26	6.07
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.28	
22 07 19 00-0667	LF	23" ID, 0.024" Aluminum Insulation Jacketing	.....	36.36	6.21
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.29	
22 07 19 00-0668	LF	24" ID, 0.024" Aluminum Insulation Jacketing	.....	37.14	6.28
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.30	
22 07 19 00-0669		32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0509)			
22 07 19 00-0670	LF	1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	11.06	2.63
		For Stucco Embossed, Add	.....	0.01	
		For Corrugated, Add	.....	0.01	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0671	LF	3/4" ID, 0.032" Aluminum Insulation Jacketing.....	11.46	2.69
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.02	
22 07 19 00-0672	LF	1" ID, 0.032" Aluminum Insulation Jacketing.....	11.90	2.75
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.02	
22 07 19 00-0673	LF	1-1/4" ID, 0.032" Aluminum Insulation Jacketing	12.33	2.82
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	
22 07 19 00-0674	LF	1-1/2" ID, 0.032" Aluminum Insulation Jacketing	12.65	2.86
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	
22 07 19 00-0675	LF	1-3/4" ID, 0.032" Aluminum Insulation Jacketing	12.99	2.90
		For Stucco Embossed, Add	0.01	
		For Corrugated, Add	0.03	
22 07 19 00-0676	LF	2" ID, 0.032" Aluminum Insulation Jacketing.....	13.39	2.97
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.04	
22 07 19 00-0677	LF	2-1/4" ID, 0.032" Aluminum Insulation Jacketing	13.80	3.03
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.04	
22 07 19 00-0678	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing	14.25	3.10
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0679	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing	14.61	3.15
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.05	
22 07 19 00-0680	LF	3" ID, 0.032" Aluminum Insulation Jacketing.....	15.06	3.22
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.06	
22 07 19 00-0681	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing	15.54	3.29
		For Stucco Embossed, Add	0.02	
		For Corrugated, Add	0.06	
22 07 19 00-0682	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing	16.00	3.36
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.06	
22 07 19 00-0683	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing	16.40	3.42
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0684	LF	4" ID, 0.032" Aluminum Insulation Jacketing.....	16.90	3.51
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.07	
22 07 19 00-0685	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing	17.40	3.59
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0686	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing	17.95	3.68
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0687	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing	18.41	3.76
		For Stucco Embossed, Add	0.03	
		For Corrugated, Add	0.08	
22 07 19 00-0688	LF	5" ID, 0.032" Aluminum Insulation Jacketing.....	18.97	3.86
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.09	
22 07 19 00-0689	LF	5-1/4" ID, 0.032" Aluminum Insulation Jacketing	19.55	3.96
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.09	
22 07 19 00-0690	LF	5-1/2" ID, 0.032" Aluminum Insulation Jacketing	20.05	4.04
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0691	LF	5-3/4" ID, 0.032" Aluminum Insulation Jacketing	20.70	4.16
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.10	
22 07 19 00-0692	LF	6" ID, 0.032" Aluminum Insulation Jacketing.....	21.36	4.28
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0693	LF	6-1/4" ID, 0.032" Aluminum Insulation Jacketing	21.78	4.35
		For Stucco Embossed, Add	0.04	
		For Corrugated, Add	0.11	
22 07 19 00-0694	LF	6-1/2" ID, 0.032" Aluminum Insulation Jacketing	22.21	4.41
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.11	
22 07 19 00-0695	LF	7" ID, 0.032" Aluminum Insulation Jacketing.....	22.93	4.51
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.12	
22 07 19 00-0696	LF	7-1/4" ID, 0.032" Aluminum Insulation Jacketing	23.52	4.62
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	
22 07 19 00-0697	LF	7-1/2" ID, 0.032" Aluminum Insulation Jacketing	23.98	4.70
		For Stucco Embossed, Add	0.05	
		For Corrugated, Add	0.13	
22 07 19 00-0698	LF	8" ID, 0.032" Aluminum Insulation Jacketing.....	24.64	4.78
		For Stucco Embossed, Add	0.06	
		For Corrugated, Add	0.14	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0699	LF	8-1/2"	0.032" Aluminum Insulation Jacketing	25.27	4.85
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0700	LF	9"	0.032" Aluminum Insulation Jacketing	26.10	4.99
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0701	LF	9-1/2"	0.032" Aluminum Insulation Jacketing	26.80	5.08
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.16	
22 07 19 00-0702	LF	10"	0.032" Aluminum Insulation Jacketing	27.48	5.17
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.17	
22 07 19 00-0703	LF	10-1/2"	0.032" Aluminum Insulation Jacketing	28.19	5.26
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.18	
22 07 19 00-0704	LF	11"	0.0106 Aluminum Insulation Jacketing.....	29.11	5.41
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.19	
22 07 19 00-0705	LF	11-1/2"	0.032" Aluminum Insulation Jacketing	29.86	5.51
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.20	
22 07 19 00-0706	LF	12"	0.032" Aluminum Insulation Jacketing	30.61	5.62
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.20	
22 07 19 00-0707	LF	12-1/2"	0.032" Aluminum Insulation Jacketing	31.62	5.78
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.21	
22 07 19 00-0708	LF	13"	0.032" Aluminum Insulation Jacketing	32.17	5.84
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.22	
22 07 19 00-0709	LF	14"	0.032" Aluminum Insulation Jacketing	33.09	5.90
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.24	
22 07 19 00-0710	LF	15"	0.032" Aluminum Insulation Jacketing	34.23	6.02
			For Stucco Embossed, Add	0.10	
			For Corrugated, Add	0.25	
22 07 19 00-0711	LF	16"	0.032" Aluminum Insulation Jacketing	35.15	6.09
			For Stucco Embossed, Add	0.11	
			For Corrugated, Add	0.27	
22 07 19 00-0712	LF	17"	0.032" Aluminum Insulation Jacketing	36.33	6.22
			For Stucco Embossed, Add	0.11	
			For Corrugated, Add	0.29	
22 07 19 00-0713	LF	18"	0.032" Aluminum Insulation Jacketing	37.05	6.28
			For Stucco Embossed, Add	0.12	
			For Corrugated, Add	0.30	
22 07 19 00-0714	LF	19"	0.032" Aluminum Insulation Jacketing	38.49	6.42
			For Stucco Embossed, Add	0.13	
			For Corrugated, Add	0.32	
22 07 19 00-0715	LF	20"	0.032" Aluminum Insulation Jacketing	39.45	6.49
			For Stucco Embossed, Add	0.13	
			For Corrugated, Add	0.34	
22 07 19 00-0716	LF	21"	0.032" Aluminum Insulation Jacketing	40.70	6.64
			For Stucco Embossed, Add	0.14	
			For Corrugated, Add	0.35	
22 07 19 00-0717	LF	22"	0.032" Aluminum Insulation Jacketing	41.67	6.72
			For Stucco Embossed, Add	0.15	
			For Corrugated, Add	0.37	
22 07 19 00-0718	LF	23"	0.032" Aluminum Insulation Jacketing	42.98	6.88
			For Stucco Embossed, Add	0.15	
			For Corrugated, Add	0.39	
22 07 19 00-0719	LF	24"	0.032" Aluminum Insulation Jacketing	43.96	6.97
			For Stucco Embossed, Add	0.16	
			For Corrugated, Add	0.40	
22 07 19 00-0720			40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0509)		
22 07 19 00-0721	LF	1/2"	0.040" Aluminum Insulation Jacketing	12.78	3.03
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0722	LF	3/4"	0.040" Aluminum Insulation Jacketing	13.27	3.10
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0723	LF	1"	0.040" Aluminum Insulation Jacketing	13.77	3.17
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0724	LF	1-1/4"	0.040" Aluminum Insulation Jacketing	14.29	3.25
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0725	LF	1-1/2"	0.040" Aluminum Insulation Jacketing	14.69	3.30
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0726	LF	1-3/4"	0.040" Aluminum Insulation Jacketing	15.09	3.35
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0727	LF	2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.57 0.02 0.05	3.41
22 07 19 00-0728	LF	2-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.05 0.02 0.05	3.48
22 07 19 00-0729	LF	2-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.59 0.02 0.06	3.56
22 07 19 00-0730	LF	2-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.02 0.03 0.06	3.62
22 07 19 00-0731	LF	3" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.57 0.03 0.07	3.70
22 07 19 00-0732	LF	3-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.12 0.03 0.08	3.78
22 07 19 00-0733	LF	3-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.67 0.03 0.08	3.87
22 07 19 00-0734	LF	3-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.14 0.03 0.09	3.94
22 07 19 00-0735	LF	4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.73 0.04 0.09	4.03
22 07 19 00-0736	LF	4-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.33 0.04 0.10	4.13
22 07 19 00-0737	LF	4-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.99 0.04 0.10	4.24
22 07 19 00-0738	LF	4-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.53 0.04 0.11	4.32
22 07 19 00-0739	LF	5" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.19 0.04 0.11	4.43
22 07 19 00-0740	LF	5-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.88 0.05 0.12	4.55
22 07 19 00-0741	LF	5-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.46 0.05 0.12	4.65
22 07 19 00-0742	LF	5-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.24 0.05 0.13	4.78
22 07 19 00-0743	LF	6" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.01 0.05 0.13	4.92
22 07 19 00-0744	LF	6-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.50 0.06 0.14	5.01
22 07 19 00-0745	LF	6-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.02 0.06 0.14	5.08
22 07 19 00-0746	LF	7" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.87 0.06 0.15	5.20
22 07 19 00-0747	LF	7-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.59 0.06 0.16	5.32
22 07 19 00-0748	LF	7-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.13 0.07 0.16	5.41
22 07 19 00-0749	LF	8" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.91 0.07 0.17	5.50
22 07 19 00-0750	LF	8-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.68 0.07 0.18	5.59
22 07 19 00-0751	LF	9" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.67 0.08 0.19	5.74
22 07 19 00-0752	LF	9-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.51 0.08 0.20	5.84
22 07 19 00-0753	LF	10" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.34 0.09 0.21	5.94
22 07 19 00-0754	LF	10-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.18 0.09 0.22	6.05



Plumbing	22	22
Plumbing Insulation	22 07	
Plumbing Piping Insulation	22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0755	LF	11" ID, 0.0106 Aluminum Insulation Jacketing.....	34.27	6.21	
		For Stucco Embossed, Add	0.09		
		For Corrugated, Add	0.24		
22 07 19 00-0756	LF	11-1/2" ID, 0.040" Aluminum Insulation Jacketing	35.17	6.33	
		For Stucco Embossed, Add	0.10		
		For Corrugated, Add	0.25		
22 07 19 00-0757	LF	12" ID, 0.040" Aluminum Insulation Jacketing	36.07	6.46	
		For Stucco Embossed, Add	0.10		
		For Corrugated, Add	0.26		
22 07 19 00-0758	LF	12-1/2" ID, 0.040" Aluminum Insulation Jacketing	37.25	6.65	
		For Stucco Embossed, Add	0.11		
		For Corrugated, Add	0.27		
22 07 19 00-0759	LF	13" ID, 0.040" Aluminum Insulation Jacketing	37.94	6.72	
		For Stucco Embossed, Add	0.11		
		For Corrugated, Add	0.28		
22 07 19 00-0760	LF	14" ID, 0.040" Aluminum Insulation Jacketing	39.05	6.78	
		For Stucco Embossed, Add	0.12		
		For Corrugated, Add	0.30		
22 07 19 00-0761	LF	15" ID, 0.040" Aluminum Insulation Jacketing	40.44	6.93	
		For Stucco Embossed, Add	0.13		
		For Corrugated, Add	0.32		
22 07 19 00-0762	LF	16" ID, 0.040" Aluminum Insulation Jacketing	41.58	7.01	
		For Stucco Embossed, Add	0.14		
		For Corrugated, Add	0.34		
22 07 19 00-0763	LF	17" ID, 0.040" Aluminum Insulation Jacketing	42.99	7.16	
		For Stucco Embossed, Add	0.14		
		For Corrugated, Add	0.36		
22 07 19 00-0764	LF	18" ID, 0.040" Aluminum Insulation Jacketing	43.87	7.23	
		For Stucco Embossed, Add	0.15		
		For Corrugated, Add	0.37		
22 07 19 00-0765	LF	19" ID, 0.040" Aluminum Insulation Jacketing	45.61	7.39	
		For Stucco Embossed, Add	0.16		
		For Corrugated, Add	0.40		
22 07 19 00-0766	LF	20" ID, 0.040" Aluminum Insulation Jacketing	46.79	7.48	
		For Stucco Embossed, Add	0.17		
		For Corrugated, Add	0.42		
22 07 19 00-0767	LF	21" ID, 0.040" Aluminum Insulation Jacketing	48.30	7.65	
		For Stucco Embossed, Add	0.18		
		For Corrugated, Add	0.44		
22 07 19 00-0768	LF	22" ID, 0.040" Aluminum Insulation Jacketing	49.47	7.74	
		For Stucco Embossed, Add	0.19		
		For Corrugated, Add	0.46		
22 07 19 00-0769	LF	23" ID, 0.040" Aluminum Insulation Jacketing	51.06	7.92	
		For Stucco Embossed, Add	0.19		
		For Corrugated, Add	0.48		
22 07 19 00-0770	LF	24" ID, 0.040" Aluminum Insulation Jacketing	52.25	8.01	
		For Stucco Embossed, Add	0.20		
		For Corrugated, Add	0.51		
22 07 19 00-0771		Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0509)			
22 07 19 00-0772	EA	1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	16.48	3.11	
22 07 19 00-0773	EA	1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	16.94	3.22	
22 07 19 00-0774	EA	2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.49	3.35	
22 07 19 00-0775	EA	2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	18.70	3.40	
22 07 19 00-0776	EA	2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	18.91	3.45	
22 07 19 00-0777	EA	2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	19.25	3.54	
22 07 19 00-0778	EA	3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.03	3.62	
22 07 19 00-0779	EA	3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	20.41	3.72	
22 07 19 00-0780	EA	3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	21.68	3.78	
22 07 19 00-0781	EA	3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	22.11	3.85	
22 07 19 00-0782	EA	4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.84	3.95	
22 07 19 00-0783	EA	4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.33	4.03	
22 07 19 00-0784	EA	4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.63	4.10	
22 07 19 00-0785	EA	4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.95	4.18	
22 07 19 00-0786	EA	5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.20	4.26	
22 07 19 00-0787	EA	5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	26.79	4.35	
22 07 19 00-0788	EA	5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.64	4.48	
22 07 19 00-0789	EA	5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	30.01	4.57	
22 07 19 00-0790	EA	6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.90	4.72	
22 07 19 00-0791	EA	6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.31	4.83	
22 07 19 00-0792	EA	6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.02	5.00	
22 07 19 00-0793	EA	7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.06	5.12	
22 07 19 00-0794	EA	7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	35.30	5.18	
22 07 19 00-0795	EA	7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.43	5.24	
22 07 19 00-0796	EA	8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	37.22	5.31	
22 07 19 00-0797	EA	8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	51.32	5.44	
22 07 19 00-0798	EA	9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	51.87	5.58	
22 07 19 00-0799	EA	9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	44.34	5.65	
22 07 19 00-0800	EA	10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	44.65	5.72	
22 07 19 00-0801	EA	10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	45.42	5.80	
22 07 19 00-0802	EA	11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	45.73	5.88	
22 07 19 00-0803	EA	11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.42	6.04	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0804 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.76	6.12
22 07 19 00-0805 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	70.19	6.30
22 07 19 00-0806 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	70.55	6.39
22 07 19 00-0807 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	86.67	6.58
22 07 19 00-0808 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.23	6.79
22 07 19 00-0809 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	96.39	6.90
22 07 19 00-0810 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.02	3.45
22 07 19 00-0811 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.36	3.54
22 07 19 00-0812 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.26	3.62
22 07 19 00-0813 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.64	3.72
22 07 19 00-0814 EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	20.57	3.78
22 07 19 00-0815 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.83	3.85
22 07 19 00-0816 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.34	3.95
22 07 19 00-0817 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.41	4.03
22 07 19 00-0818 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.71	4.10
22 07 19 00-0819 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.03	4.18
22 07 19 00-0820 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.46	4.26
22 07 19 00-0821 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.80	4.35
22 07 19 00-0822 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.70	4.48
22 07 19 00-0823 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.68	4.72
22 07 19 00-0824 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.72	5.00
22 07 19 00-0825 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.19	5.12
22 07 19 00-0826 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.79	5.24
22 07 19 00-0827 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.04	5.31
22 07 19 00-0828 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.21	5.44
22 07 19 00-0829 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.76	5.58
22 07 19 00-0830 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.28	5.65
22 07 19 00-0831 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.59	5.72
22 07 19 00-0832 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	40.68	5.80
22 07 19 00-0833 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	40.99	5.88
22 07 19 00-0834 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	45.16	6.04
22 07 19 00-0835 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	45.50	6.12
22 07 19 00-0836 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	50.23	6.39
22 07 19 00-0837 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	56.61	6.58
22 07 19 00-0838 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	73.79	6.79
22 07 19 00-0839 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	78.14	6.90
22 07 19 00-0840 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	77.40	7.02
22 07 19 00-0841 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	84.79	7.13
22 07 19 00-0842 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	97.75	7.25
22 07 19 00-0843 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	95.98	7.37
22 07 19 00-0844 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	101.77	7.50
22 07 19 00-0845 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing.....	48.74	4.94
22 07 19 00-0846 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing.....	49.20	5.06
22 07 19 00-0847 EA 3" ID, Aluminum Tee Insulation Jacketing.....	53.44	5.18
22 07 19 00-0848 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing.....	53.95	5.31
22 07 19 00-0849 EA 3-1/2" ID Aluminum Tee Insulation Jacketing.....	56.05	5.44
22 07 19 00-0850 EA 4" ID, Aluminum Tee Insulation Jacketing.....	56.97	5.58
22 07 19 00-0851 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing.....	59.57	5.72
22 07 19 00-0852 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing.....	59.88	5.88
22 07 19 00-0853 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing.....	60.53	6.04
22 07 19 00-0854 EA 5" ID, Aluminum Tee Insulation Jacketing.....	62.59	6.21
22 07 19 00-0855 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing.....	63.31	6.39
22 07 19 00-0856 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing.....	65.76	6.58
22 07 19 00-0857 EA 6" ID, Aluminum Tee Insulation Jacketing.....	66.58	6.79
22 07 19 00-0858 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing.....	72.28	7.25
22 07 19 00-0859 EA 7" ID, Aluminum Tee Insulation Jacketing.....	73.27	7.50
22 07 19 00-0860 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing.....	79.20	7.76
22 07 19 00-0861 EA 8" ID, Aluminum Tee Insulation Jacketing.....	80.34	8.05
22 07 19 00-0862 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing.....	82.85	8.36
22 07 19 00-0863 EA 9" ID, Aluminum Tee Insulation Jacketing.....	84.19	8.69
22 07 19 00-0864 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing.....	72.16	8.87
22 07 19 00-0865 EA 10" ID, Aluminum Tee Insulation Jacketing.....	72.90	9.06
22 07 19 00-0866 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing.....	76.06	9.25
22 07 19 00-0867 EA 11" ID, Aluminum Tee Insulation Jacketing.....	76.86	9.45
22 07 19 00-0868 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing.....	79.84	9.66
22 07 19 00-0869 EA 12" ID, Aluminum Tee Insulation Jacketing.....	80.71	9.88
22 07 19 00-0870 EA 13" ID, Aluminum Tee Insulation Jacketing.....	83.68	10.11
22 07 19 00-0871 EA 14" ID, Aluminum Tee Insulation Jacketing.....	86.77	10.35
22 07 19 00-0872 EA 15" ID, Aluminum Tee Insulation Jacketing.....	91.47	10.60
22 07 19 00-0873 EA 16" ID, Aluminum Tee Insulation Jacketing.....	93.77	10.86
22 07 19 00-0874 EA 17" ID, Aluminum Tee Insulation Jacketing.....	102.40	11.15
22 07 19 00-0875 EA 18" ID, Aluminum Tee Insulation Jacketing.....	105.83	11.44
22 07 19 00-0876 EA 19" ID, Aluminum Tee Insulation Jacketing.....	113.43	11.75
22 07 19 00-0877 EA 20" ID, Aluminum Tee Insulation Jacketing.....	116.18	12.08
22 07 19 00-0878 EA 22" ID, Aluminum Tee Insulation Jacketing.....	136.03	12.42
22 07 19 00-0879 EA 23" ID, Aluminum Tee Insulation Jacketing.....	139.90	12.78
22 07 19 00-0880 EA 24" ID, Aluminum Tee Insulation Jacketing.....	147.15	14.02

22 07 19 00-0881 Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0508)



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

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MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
22 07 19 00-0882 Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands ^(22 07 19 00-0882)						
22 07 19 00-0883	SF	0.010" Stainless Steel Insulation Jacket With Bands	20.01		8.15	
22 07 19 00-0884	SF	0.016" Stainless Steel Insulation Jacket With Bands	24.49		9.78	
22 07 19 00-0885 10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands ^(22 07 19 00-0885)						
22 07 19 00-0886	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	9.79		1.74	
22 07 19 00-0887	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	10.18		1.78	
22 07 19 00-0888	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing	10.58		1.81	
22 07 19 00-0889	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	10.99		1.85	
22 07 19 00-0890	LF	3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	11.40		1.89	
22 07 19 00-0891	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	11.82		1.93	
22 07 19 00-0892	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing	12.24		1.98	
22 07 19 00-0893	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.68		2.02	
22 07 19 00-0894	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	13.12		2.07	
22 07 19 00-0895	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing	14.04		2.17	
22 07 19 00-0896	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.01		2.29	
22 07 19 00-0897	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing	16.01		2.41	
22 07 19 00-0898	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	16.79		2.48	
22 07 19 00-0899	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing	17.59		2.55	
22 07 19 00-0900	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	18.46		2.65	
22 07 19 00-0901	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing	19.16		2.70	
22 07 19 00-0902	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	19.87		2.75	
22 07 19 00-0903	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing	20.59		2.80	
22 07 19 00-0904	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	21.31		2.86	
22 07 19 00-0905	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing	22.04		2.91	
22 07 19 00-0906	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	22.79		2.98	
22 07 19 00-0907	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing	23.54		3.04	
22 07 19 00-0908	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing	25.07		3.18	
22 07 19 00-0909	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing	26.57		3.30	
22 07 19 00-0910	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing	27.77		3.35	
22 07 19 00-0911 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands ^(22 07 19 00-0911)						
22 07 19 00-0912	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	13.35		2.31	
22 07 19 00-0913	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	13.91		2.36	
22 07 19 00-0914	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing	14.47		2.41	
22 07 19 00-0915	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	15.05		2.46	
22 07 19 00-0916	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	15.63		2.51	
22 07 19 00-0917	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.21		2.57	
22 07 19 00-0918	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing	16.80		2.63	
22 07 19 00-0919	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	17.41		2.69	
22 07 19 00-0920	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	18.04		2.75	
22 07 19 00-0921	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing	19.33		2.89	
22 07 19 00-0922	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	20.65		3.05	
22 07 19 00-0923	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing	22.05		3.22	
22 07 19 00-0924	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	23.15		3.31	
22 07 19 00-0925	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing	24.28		3.40	
22 07 19 00-0926	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	25.50		3.53	
22 07 19 00-0927	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing	26.48		3.59	
22 07 19 00-0928	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	27.49		3.66	
22 07 19 00-0929	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing	28.52		3.73	
22 07 19 00-0930	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	29.53		3.80	
22 07 19 00-0931	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing	30.56		3.88	
22 07 19 00-0932	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	31.62		3.96	
22 07 19 00-0933	LF	11" ID, 0.016" Stainless Steel Insulation Jacketing	32.67		4.04	
22 07 19 00-0934	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing	34.84		4.22	
22 07 19 00-0935	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing	36.94		4.38	
22 07 19 00-0936	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing	38.66		4.45	
22 07 19 00-0937 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings ^(22 07 19 00-0937)						
22 07 19 00-0938	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	26.30		3.45	
22 07 19 00-0939	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	26.64		3.54	
22 07 19 00-0940	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	27.56		3.62	
22 07 19 00-0941	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	27.94		3.72	
22 07 19 00-0942	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	28.86		3.78	
22 07 19 00-0943	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	29.90		3.85	
22 07 19 00-0944	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	31.76		3.95	
22 07 19 00-0945	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.30		4.03	
22 07 19 00-0946	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.60		4.10	
22 07 19 00-0947	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.74		4.26	
22 07 19 00-0948	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	50.26		4.48	
22 07 19 00-0949	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	54.40		4.72	
22 07 19 00-0950	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	68.84		5.00	
22 07 19 00-0951	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	69.31		5.12	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0952 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	78.00	5.24
22 07 19 00-0953 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	78.78	5.44
22 07 19 00-0954 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	80.72	5.44
22 07 19 00-0955 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	112.00	5.58
22 07 19 00-0956 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	110.73	5.65
22 07 19 00-0957 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	111.04	5.72
22 07 19 00-0958 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	128.66	5.80
22 07 19 00-0959 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	124.18	5.88
22 07 19 00-0960 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	138.79	6.12
22 07 19 00-0961 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	183.93	6.39
22 07 19 00-0962 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	185.78	6.58
22 07 19 00-0963 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.22	3.45
22 07 19 00-0964 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.56	3.54
22 07 19 00-0965 EA 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.70	3.62
22 07 19 00-0966 EA 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	26.08	3.72
22 07 19 00-0967 EA 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	26.48	3.78
22 07 19 00-0968 EA 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	26.74	3.85
22 07 19 00-0969 EA 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	30.40	3.95
22 07 19 00-0970 EA 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.58	4.03
22 07 19 00-0971 EA 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.88	4.10
22 07 19 00-0972 EA 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	37.20	4.18
22 07 19 00-0973 EA 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	37.88	4.26
22 07 19 00-0974 EA 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	38.76	4.48
22 07 19 00-0975 EA 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	43.62	4.72
22 07 19 00-0976 EA 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	44.70	5.00
22 07 19 00-0977 EA 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	62.27	5.12
22 07 19 00-0978 EA 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.63	5.24
22 07 19 00-0979 EA 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.88	5.31
22 07 19 00-0980 EA 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	71.67	5.44
22 07 19 00-0981 EA 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.22	5.58
22 07 19 00-0982 EA 9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	81.20	5.65
22 07 19 00-0983 EA 10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	81.51	5.72
22 07 19 00-0984 EA 10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	93.64	5.80
22 07 19 00-0985 EA 11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	93.95	5.88
22 07 19 00-0986 EA 12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	101.00	6.12
22 07 19 00-0987 EA 13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	115.60	6.39
22 07 19 00-0988 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0508)		
22 07 19 00-0989 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0988)		
22 07 19 00-0990 LF 1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.68	1.61
22 07 19 00-0991 LF 2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.00	1.67
22 07 19 00-0992 LF 2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.34	1.74
22 07 19 00-0993 LF 3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.71	1.81
22 07 19 00-0994 LF 3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.08	1.89
22 07 19 00-0995 LF 4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.49	1.98
22 07 19 00-0996 LF 4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.94	2.07
22 07 19 00-0997 LF 5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.41	2.17
22 07 19 00-0998 LF 5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.95	2.29
22 07 19 00-0999 LF 6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.52	2.41
22 07 19 00-1000 LF 6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.87	2.48
22 07 19 00-1001 LF 7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.22	2.55
22 07 19 00-1002 LF 7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.67	2.65
22 07 19 00-1003 LF 8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.93	2.70
22 07 19 00-1004 LF 8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.21	2.75
22 07 19 00-1005 LF 9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.49	2.80
22 07 19 00-1006 LF 9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.78	2.86
22 07 19 00-1007 LF 10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.07	2.91
22 07 19 00-1008 LF 10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.38	2.98
22 07 19 00-1009 LF 11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.70	3.04
22 07 19 00-1010 LF 11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.03	3.11
22 07 19 00-1011 LF 12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.36	3.18
22 07 19 00-1012 LF 12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.73	3.25
22 07 19 00-1013 LF 13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.99	3.30
22 07 19 00-1014 LF 13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.06	3.30
22 07 19 00-1015 LF 14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.33	3.35
22 07 19 00-1016 LF 15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.68	3.40
22 07 19 00-1017 LF 16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.02	3.45
22 07 19 00-1018 LF 17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.38	3.51
22 07 19 00-1019 LF 18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.75	3.57
22 07 19 00-1020 LF 19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.12	3.62
22 07 19 00-1021 LF 20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.50	3.69
22 07 19 00-1022 LF 21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.90	3.75
22 07 19 00-1023 LF 22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.30	3.81
22 07 19 00-1024 LF 23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.70	3.88
22 07 19 00-1025 LF 24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.12	3.95
22 07 19 00-1026 LF 25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.55	4.03
22 07 19 00-1027 LF 26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.98	4.10
22 07 19 00-1028 LF 27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	20.44	4.18
22 07 19 00-1029 LF 28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	20.90	4.26



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR				TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION				UNIT COST		UNIT COST	
22 07 19 00-1030	LF	29" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.38		4.35	
22 07 19 00-1031	LF	30" ID, 0.02"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.88		4.43	
22 07 19 00-1032 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0988)							
22 07 19 00-1033	LF	2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	7.15		1.67	
22 07 19 00-1034	LF	2-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	7.53		1.74	
22 07 19 00-1035	LF	3" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	7.93		1.81	
22 07 19 00-1036	LF	3-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	8.33		1.89	
22 07 19 00-1037	LF	4" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	8.77		1.98	
22 07 19 00-1038	LF	4-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.25		2.07	
22 07 19 00-1039	LF	5" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	9.76		2.17	
22 07 19 00-1040	LF	5-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.33		2.29	
22 07 19 00-1041	LF	6" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	10.93		2.41	
22 07 19 00-1042	LF	6-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.31		2.48	
22 07 19 00-1043	LF	7" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	11.70		2.55	
22 07 19 00-1044	LF	7-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.18		2.65	
22 07 19 00-1045	LF	8" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.48		2.70	
22 07 19 00-1046	LF	8-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	12.79		2.75	
22 07 19 00-1047	LF	9" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.10		2.80	
22 07 19 00-1048	LF	9-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.42		2.86	
22 07 19 00-1049	LF	10" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	13.75		2.91	
22 07 19 00-1050	LF	10-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.09		2.98	
22 07 19 00-1051	LF	11" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.44		3.04	
22 07 19 00-1052	LF	11-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	14.80		3.11	
22 07 19 00-1053	LF	12" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.17		3.18	
22 07 19 00-1054	LF	12-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.57		3.25	
22 07 19 00-1055	LF	13" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.87		3.30	
22 07 19 00-1056	LF	13-1/2" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	15.97		3.30	
22 07 19 00-1057	LF	14" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.27		3.35	
22 07 19 00-1058	LF	15" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	16.68		3.40	
22 07 19 00-1059	LF	16" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.09		3.45	
22 07 19 00-1060	LF	17" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.51		3.51	
22 07 19 00-1061	LF	18" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	17.95		3.57	
22 07 19 00-1062	LF	19" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.39		3.62	
22 07 19 00-1063	LF	20" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	18.83		3.69	
22 07 19 00-1064	LF	21" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.30		3.75	
22 07 19 00-1065	LF	22" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	19.76		3.81	
22 07 19 00-1066	LF	23" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.23		3.88	
22 07 19 00-1067	LF	24" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	20.71		3.95	
22 07 19 00-1068	LF	25" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.21		4.03	
22 07 19 00-1069	LF	26" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	21.71		4.10	
22 07 19 00-1070	LF	27" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	22.23		4.18	
22 07 19 00-1071	LF	28" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	22.76		4.26	
22 07 19 00-1072	LF	29" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	23.30		4.35	
22 07 19 00-1073	LF	30" ID, 0.03"	Polyvinyl Chloride (PVC) Insulation Jacketing	23.86		4.43	
22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0988)							
22 07 19 00-1075	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	13.43		3.22		
22 07 19 00-1076	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.06		3.35		
22 07 19 00-1077	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.35		3.40		
22 07 19 00-1078	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.64		3.45		
22 07 19 00-1079	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	15.05		3.54		
22 07 19 00-1080	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	15.45		3.62		
22 07 19 00-1081	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.09		3.75		
22 07 19 00-1082	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.61		3.85		
22 07 19 00-1083	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.35		3.95		
22 07 19 00-1084	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.42		4.14		
22 07 19 00-1085	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.56		4.35		
22 07 19 00-1086	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.16		4.57		
22 07 19 00-1087	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.09		4.83		
22 07 19 00-1088	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.01		5.00		
22 07 19 00-1089	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	26.75		5.12		
22 07 19 00-1090	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.56		5.24		
22 07 19 00-1091	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	30.23		5.44		
22 07 19 00-1092	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	33.92		5.65		
22 07 19 00-1093	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	36.16		5.88		
22 07 19 00-1094	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	39.00		6.12		
22 07 19 00-1095	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	43.89		6.39		
22 07 19 00-1096	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	47.29		6.58		
22 07 19 00-1097	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	49.67		6.79		
22 07 19 00-1098	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	52.16		6.90		
22 07 19 00-1099	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	55.30		7.02		
22 07 19 00-1100	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	63.65		7.13		
22 07 19 00-1101	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	76.71		7.25		
22 07 19 00-1102	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	90.81		7.37		
22 07 19 00-1103	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	13.43		3.22		
22 07 19 00-1104	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.06		3.35		
22 07 19 00-1105	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.35		3.40		

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1106 EA 2-1/2"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.64	3.45
22 07 19 00-1107 EA 2-3/4"ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	15.05	3.54
22 07 19 00-1108 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	15.45	3.62
22 07 19 00-1109 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	16.09	3.75
22 07 19 00-1110 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	16.61	3.85
22 07 19 00-1111 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.35	3.95
22 07 19 00-1112 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.42	4.14
22 07 19 00-1113 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.56	4.35
22 07 19 00-1114 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.16	4.57
22 07 19 00-1115 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.09	4.83
22 07 19 00-1116 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.01	5.00
22 07 19 00-1117 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	26.75	5.12
22 07 19 00-1118 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.56	5.24
22 07 19 00-1119 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	30.23	5.44
22 07 19 00-1120 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	33.92	5.65
22 07 19 00-1121 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	36.15	5.88
22 07 19 00-1122 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	38.44	6.12
22 07 19 00-1123 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	41.14	6.39
22 07 19 00-1124 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	44.14	6.58
22 07 19 00-1125 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	46.26	6.79
22 07 19 00-1126 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	49.40	6.90
22 07 19 00-1127 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	52.60	7.02
22 07 19 00-1128 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	58.50	7.13
22 07 19 00-1129 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	69.91	7.25
22 07 19 00-1130 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	75.83	7.37
22 07 19 00-1131 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	19.15	4.53
22 07 19 00-1132 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	19.68	4.62
22 07 19 00-1133 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	20.39	4.77
22 07 19 00-1134 EA 2-1/2"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	21.16	4.94
22 07 19 00-1135 EA 2-3/4"ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	22.00	5.12
22 07 19 00-1136 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	22.88	5.31
22 07 19 00-1137 EA 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	23.93	5.51
22 07 19 00-1138 EA 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	25.07	5.72
22 07 19 00-1139 EA 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.40	5.96
22 07 19 00-1140 EA 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	28.06	6.21
22 07 19 00-1141 EA 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.81	6.49
22 07 19 00-1142 EA 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	32.73	6.90
22 07 19 00-1143 EA 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	35.73	7.25
22 07 19 00-1144 EA 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	37.82	7.37
22 07 19 00-1145 EA 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	43.98	7.63
22 07 19 00-1146 EA 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	46.98	8.05
22 07 19 00-1147 EA 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	51.42	8.36
22 07 19 00-1148 EA 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	55.98	8.69
22 07 19 00-1149 EA 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	57.68	9.06
22 07 19 00-1150 EA 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	60.83	9.25
22 07 19 00-1151 EA 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	64.01	9.45
22 07 19 00-1152 EA 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	67.26	9.66
22 07 19 00-1153 EA 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	70.50	9.88
22 07 19 00-1154 EA 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	73.81	10.11
22 07 19 00-1155 EA 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	77.14	10.35
22 07 19 00-1156 EA 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	81.74	10.60
22 07 19 00-1157 EA 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	86.39	10.86
22 07 19 00-1158 EA 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	91.86	11.15
22 07 19 00-1159 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	16.77	3.11
22 07 19 00-1160 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	16.77	3.11
22 07 19 00-1161 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	18.39	3.22
22 07 19 00-1162 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	18.39	3.22
22 07 19 00-1163 EA 2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	22.07	3.35
22 07 19 00-1164 EA 2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	23.56	3.48
22 07 19 00-1165 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	25.30	3.62
22 07 19 00-1166 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	27.64	3.78
22 07 19 00-1167 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	29.75	3.95
22 07 19 00-1168 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	34.72	4.35
22 07 19 00-1169 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	44.92	4.83
22 07 19 00-1170 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.62	5.44
22 07 19 00-1171 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.86	5.80
22 07 19 00-1172 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	76.87	6.39
22 07 19 00-1173 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	78.15	6.68
22 07 19 00-1174 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	97.49	6.90
22 07 19 00-1175 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	124.62	7.13
22 07 19 00-1176 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	16.29	3.11
22 07 19 00-1177 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	16.29	3.11
22 07 19 00-1178 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	17.81	3.22
22 07 19 00-1179 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	17.81	3.22
22 07 19 00-1180 EA 2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	21.12	3.35
22 07 19 00-1181 EA 2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	22.50	3.48
22 07 19 00-1182 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	24.14	3.62
22 07 19 00-1183 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	25.31	3.78
22 07 19 00-1184 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	28.21	3.95
22 07 19 00-1185 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	32.81	4.35
22 07 19 00-1186 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	42.11	4.83



	Plumbing	22	
	Plumbing Insulation	22 07	22
	Plumbing Piping Insulation	22 07 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1187 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	46.54	5.44
22 07 19 00-1188 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	54.94	5.80
22 07 19 00-1189 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	71.26	6.39
22 07 19 00-1190 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	86.19	6.68
22 07 19 00-1191 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	99.60	6.90
22 07 19 00-1192 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	113.48	7.13
22 07 19 00-1193 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	24.36	4.67
22 07 19 00-1194 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	24.36	4.67
22 07 19 00-1195 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	26.48	4.83
22 07 19 00-1196 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	26.48	4.83
22 07 19 00-1197 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	31.28	5.00
22 07 19 00-1198 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	33.26	5.18
22 07 19 00-1199 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	35.79	5.44
22 07 19 00-1200 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	37.47	5.65
22 07 19 00-1201 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	42.00	5.96
22 07 19 00-1202 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	45.98	6.49
22 07 19 00-1203 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	58.62	7.25
22 07 19 00-1204 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	64.32	8.05
22 07 19 00-1205 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	81.16	8.69
22 07 19 00-1206 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	104.47	9.45
22 07 19 00-1207 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	120.97	10.11
22 07 19 00-1208 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	138.01	10.35
22 07 19 00-1209 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	148.83	10.60

22 10 Plumbing Piping⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution^(22 10)

22 11 16 Domestic Water Piping^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002 LF 1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	15.84	4.10
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	3.73	
For ASTM 120, Deduct	-0.33	
For Work In Restricted Working Space, Add	4.08	
22 11 16 00-0003 LF 3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	17.03	4.41
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	4.06	
For ASTM 120, Deduct	-0.39	
For Work In Restricted Working Space, Add	4.32	
22 11 16 00-0004 LF 1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	18.64	4.83
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	4.54	
For ASTM 120, Deduct	-0.49	
For Work In Restricted Working Space, Add	4.62	
22 11 16 00-0005 LF 1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.03	5.03
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	5.38	
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	4.91	
22 11 16 00-0006 LF 1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	22.19	5.95
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	5.73	
For ASTM 120, Deduct	-0.77	
For Work In Restricted Working Space, Add	5.11	
22 11 16 00-0007 LF 2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	25.95	7.18
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	6.83	
For ASTM 120, Deduct	-0.98	
For Work In Restricted Working Space, Add	5.82	
22 11 16 00-0008 LF 2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	34.18	8.51
Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	9.70	
For ASTM 120, Deduct	-1.72	
For Work In Restricted Working Space, Add	6.82	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0009	LF		3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	42.01 12.02 -2.17 8.27	11.38
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	55.01 17.45 -3.87 8.76	12.50
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	86.79 30.24 -7.73 10.58	15.98
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	53.45 14.03 -2.01 12.02	18.89
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings (22 11 16) Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Threaded And Coupled, Galvanized Steel Piping (22 11 16 00-0013) Note: ASTM A-53. Includes coupling.		
22 11 16 00-0015	LF		1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	7.17 1.08 -0.14 1.86	4.10
22 11 16 00-0016	LF		3/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	7.88 1.27 -0.19 1.98	4.41
22 11 16 00-0017	LF		1" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	9.06 1.62 -0.28 2.15	4.83
22 11 16 00-0018	LF		1-1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	10.16 1.99 -0.38 2.28	5.03
22 11 16 00-0019	LF		1-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	11.98 2.36 -0.46 2.68	5.95
22 11 16 00-0020	LF		2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	14.91 3.05 -0.62 3.24	7.18
22 11 16 00-0021	LF		2-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	19.34 4.41 -0.98 3.85	8.51
22 11 16 00-0022	LF		3" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	25.62 5.80 -1.28 5.13	11.38
22 11 16 00-0023	LF		4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	30.95 7.71 -1.82 5.64	12.50
22 11 16 00-0024	LF		5" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	40.21 10.21 -2.44 7.18	15.98
22 11 16 00-0025	LF		6" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe..... For Schedule 80 Pipe, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	49.44 12.98 -3.17 8.49	18.89
22 11 16 00-0026			Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0027	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow..... For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	29.06 7.46 -0.26 8.21	18.26
22 11 16 00-0028	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow..... For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	32.71 8.98 -0.32 9.18	20.41



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0029	EA	1"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	38.09 15.31 -0.59 10.26	22.77
22 11 16 00-0030	EA	1-1/4"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	44.86 23.27 -0.92 11.61	25.85
22 11 16 00-0031	EA	1-1/2"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	51.68 29.95 -1.21 13.09	29.12
22 11 16 00-0032	EA	2"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	68.60 48.07 -1.97 16.63	37.03
22 11 16 00-0033	EA	2-1/2"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	116.50 122.05 -5.17 24.62	54.77
22 11 16 00-0034	EA	3"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	164.75 199.56 -8.52 32.39	72.00
22 11 16 00-0035	EA	4"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	209.82 347.16 -15.03 32.90	73.11
22 11 16 00-0036	EA	5"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	546.97 1,477.57 -64.88 34.32	76.31
22 11 16 00-0037	EA	6"	150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	518.39 1,363.03 -59.82 35.88	79.79
22 11 16 00-0038			Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0039	EA	3/4" x 1/2"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	32.64 -0.55 8.69	19.28
22 11 16 00-0040	EA	1" x 3/4"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	37.09 -0.70 9.72	21.64
22 11 16 00-0041	EA	1" x 1/2"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	35.75 -0.75 9.23	20.51
22 11 16 00-0042	EA	1-1/4" x 1"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	44.31 -1.18 10.93	24.31
22 11 16 00-0043	EA	1-1/4" x 3/4"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	44.11 -1.42 10.40	23.08
22 11 16 00-0044	EA	1-1/4" x 1/2"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	43.04 -1.50 9.91	22.05
22 11 16 00-0045	EA	1-1/2" x 1-1/4"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	53.75 -1.89 12.35	27.48
22 11 16 00-0046	EA	1-1/2" x 1"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	51.49 -1.89 11.67	25.95
22 11 16 00-0047	EA	1-1/2" x 3/4"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	49.71 -1.89 11.14	24.72
22 11 16 00-0048	EA	2" x 1-1/2"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	64.24 -2.21 14.86	33.02
22 11 16 00-0049	EA	2" x 1-1/4"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	63.92 -2.53 14.12	31.39
22 11 16 00-0050	EA	2" x 1"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	62.30 -2.62 13.44	29.85
22 11 16 00-0051	EA	2" x 3/4"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	56.29 -1.99 12.91	28.72
22 11 16 00-0052	EA	2-1/2" x 2"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	118.57 -7.47 20.63	45.84
22 11 16 00-0053	EA	2-1/2" x 1-1/2"	150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	118.36 -8.33 18.86	41.95

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0054	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	185.55	63.38
			For ASTM 120, Deduct	-13.58	
			For Work In Restricted Working Space, Add	28.50	
22 11 16 00-0055	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	160.35	54.46
			For ASTM 120, Deduct	-11.80	
			For Work In Restricted Working Space, Add	24.51	
22 11 16 00-0056	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	309.21	69.55
			For ASTM 120, Deduct	-30.74	
			For Work In Restricted Working Space, Add	31.29	
22 11 16 00-0057 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)					
22 11 16 00-0058	EA		1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	30.06	18.26
			For 300 LB Rating, Add	10.86	
			For ASTM 120, Deduct	-0.41	
			For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0059	EA		3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	34.51	20.41
			For 300 LB Rating, Add	15.10	
			For ASTM 120, Deduct	-0.59	
			For Work In Restricted Working Space, Add	9.18	
22 11 16 00-0060	EA		1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	38.59	22.77
			For 300 LB Rating, Add	17.01	
			For ASTM 120, Deduct	-0.66	
			For Work In Restricted Working Space, Add	10.26	
22 11 16 00-0061	EA		1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	46.92	25.85
			For 300 LB Rating, Add	30.27	
			For ASTM 120, Deduct	-1.23	
			For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0062	EA		1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	53.29	29.12
			For 300 LB Rating, Add	35.43	
			For ASTM 120, Deduct	-1.45	
			For Work In Restricted Working Space, Add	13.09	
22 11 16 00-0063	EA		2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	69.72	37.03
			For 300 LB Rating, Add	51.88	
			For ASTM 120, Deduct	-2.14	
			For Work In Restricted Working Space, Add	16.63	
22 11 16 00-0064	EA		2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	131.75	54.77
			For 300 LB Rating, Add	173.90	
			For ASTM 120, Deduct	-7.46	
			For Work In Restricted Working Space, Add	24.62	
22 11 16 00-0065	EA		3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	180.24	72.00
			For 300 LB Rating, Add	252.23	
			For ASTM 120, Deduct	-10.84	
			For Work In Restricted Working Space, Add	32.39	
22 11 16 00-0066	EA		4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	230.83	73.11
			For 300 LB Rating, Add	418.59	
			For ASTM 120, Deduct	-18.18	
			For Work In Restricted Working Space, Add	32.90	
22 11 16 00-0067	EA		5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	604.08	76.31
			For 300 LB Rating, Add	1,671.74	
			For ASTM 120, Deduct	-73.45	
			For Work In Restricted Working Space, Add	34.32	
22 11 16 00-0068	EA		6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow.....	710.03	79.79
			For 300 LB Rating, Add	2,014.60	
			For ASTM 120, Deduct	-88.56	
			For Work In Restricted Working Space, Add	35.88	
22 11 16 00-0069 Galvanized Malleable Iron Tees (22 11 16 00-0013)					
22 11 16 00-0070	EA		1/2", 150 LB, Galvanized Malleable Iron Tee.....	36.41	22.77
			For 300 LB Rating, Add	9.60	
			For ASTM 120, Deduct	-0.33	
			For Work In Restricted Working Space, Add	10.26	
22 11 16 00-0071	EA		3/4", 150 LB, Galvanized Malleable Iron Tee.....	43.11	26.36
			For 300 LB Rating, Add	14.81	
			For ASTM 120, Deduct	-0.55	
			For Work In Restricted Working Space, Add	11.84	
22 11 16 00-0072	EA		1", 150 LB, Galvanized Malleable Iron Tee.....	52.53	31.07
			For 300 LB Rating, Add	22.89	
			For ASTM 120, Deduct	-0.89	
			For Work In Restricted Working Space, Add	13.99	
22 11 16 00-0073	EA		1-1/4", 150 LB, Galvanized Malleable Iron Tee.....	64.83	37.03
			For 300 LB Rating, Add	35.25	
			For ASTM 120, Deduct	-1.41	
			For Work In Restricted Working Space, Add	16.63	
22 11 16 00-0074	EA		1-1/2", 150 LB, Galvanized Malleable Iron Tee.....	77.84	44.10
			For 300 LB Rating, Add	43.65	
			For ASTM 120, Deduct	-1.75	
			For Work In Restricted Working Space, Add	19.85	
22 11 16 00-0075	EA		2", 150 LB, Galvanized Malleable Iron Tee.....	101.01	54.77
			For 300 LB Rating, Add	69.39	
			For ASTM 120, Deduct	-2.84	
			For Work In Restricted Working Space, Add	24.62	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0076	EA	2-1/2", 150 LB, Galvanized Malleable Iron Tee	.....	142.57	59.48
		For 300 LB Rating, Add		186.88	
		For ASTM 120, Deduct		-8.01	
		For Work In Restricted Working Space, Add		26.75	
22 11 16 00-0077	EA	3", 150 LB, Galvanized Malleable Iron Tee	.....	170.57	72.00
		For 300 LB Rating, Add		219.35	
		For ASTM 120, Deduct		-9.39	
		For Work In Restricted Working Space, Add		32.39	
22 11 16 00-0078	EA	4", 150 LB, Galvanized Malleable Iron Tee	.....	286.61	92.38
		For 300 LB Rating, Add		511.88	
		For ASTM 120, Deduct		-22.22	
		For Work In Restricted Working Space, Add		41.55	
22 11 16 00-0079	EA	5", 150 LB, Galvanized Malleable Iron Tee	.....	630.05	109.68
		For 300 LB Rating, Add		1,592.84	
		For ASTM 120, Deduct		-69.84	
		For Work In Restricted Working Space, Add		49.34	
22 11 16 00-0080	EA	6", 150 LB, Galvanized Malleable Iron Tee	.....	716.04	125.38
		For 300 LB Rating, Add		1,806.75	
		For ASTM 120, Deduct		-79.21	
		For Work In Restricted Working Space, Add		56.39	
22 11 16 00-0081 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)					
22 11 16 00-0082	EA	1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	39.35	22.77
		For 300 LB Rating, Add		19.60	
		For ASTM 120, Deduct		-0.77	
		For Work In Restricted Working Space, Add		10.26	
22 11 16 00-0083	EA	3/4", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	44.53	26.36
		For 300 LB Rating, Add		19.64	
		For ASTM 120, Deduct		-0.76	
		For Work In Restricted Working Space, Add		11.84	
22 11 16 00-0084	EA	1", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	53.76	31.07
		For 300 LB Rating, Add		27.07	
		For ASTM 120, Deduct		-1.07	
		For Work In Restricted Working Space, Add		13.99	
22 11 16 00-0085	EA	1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	66.52	37.03
		For 300 LB Rating, Add		41.00	
		For ASTM 120, Deduct		-1.66	
		For Work In Restricted Working Space, Add		16.63	
22 11 16 00-0086	EA	1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	79.85	44.10
		For 300 LB Rating, Add		50.48	
		For ASTM 120, Deduct		-2.05	
		For Work In Restricted Working Space, Add		19.85	
22 11 16 00-0087	EA	2", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	102.03	54.77
		For 300 LB Rating, Add		72.86	
		For ASTM 120, Deduct		-3.00	
		For Work In Restricted Working Space, Add		24.62	
22 11 16 00-0088	EA	2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	160.03	59.69
		For 300 LB Rating, Add		245.31	
		For ASTM 120, Deduct		-10.59	
		For Work In Restricted Working Space, Add		26.84	
22 11 16 00-0089	EA	3", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	201.19	73.13
		For 300 LB Rating, Add		317.75	
		For ASTM 120, Deduct		-13.73	
		For Work In Restricted Working Space, Add		32.90	
22 11 16 00-0090	EA	4", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	403.80	92.38
		For 300 LB Rating, Add		910.33	
		For ASTM 120, Deduct		-39.80	
		For Work In Restricted Working Space, Add		41.55	
22 11 16 00-0091	EA	5", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	779.82	109.68
		For 300 LB Rating, Add		2,102.06	
		For ASTM 120, Deduct		-92.30	
		For Work In Restricted Working Space, Add		49.34	
22 11 16 00-0092	EA	6", 150 LB, Galvanized Malleable Iron Reducing Tee	.....	885.91	125.38
		For 300 LB Rating, Add		2,384.31	
		For ASTM 120, Deduct		-104.69	
		For Work In Restricted Working Space, Add		56.39	
22 11 16 00-0093 Galvanized Malleable Iron Couplings (22 11 16 00-0013)					
22 11 16 00-0094	EA	1/2", 150 LB, Galvanized Malleable Iron Coupling	.....	29.86	18.26
		For 300 LB Rating, Add		10.18	
		For ASTM 120, Deduct		-0.38	
		For Work In Restricted Working Space, Add		8.21	
22 11 16 00-0095	EA	3/4", 150 LB, Galvanized Malleable Iron Coupling	.....	33.50	20.41
		For 300 LB Rating, Add		11.66	
		For ASTM 120, Deduct		-0.43	
		For Work In Restricted Working Space, Add		9.18	
22 11 16 00-0096	EA	1", 150 LB, Galvanized Malleable Iron Coupling	.....	38.93	22.77
		For 300 LB Rating, Add		18.17	
		For ASTM 120, Deduct		-0.71	
		For Work In Restricted Working Space, Add		10.26	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0097 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	45.38	25.85
For 300 LB Rating, Add	25.03	
For ASTM 120, Deduct	-1.00	
For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0098 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	51.23	29.12
For 300 LB Rating, Add	28.42	
For ASTM 120, Deduct	-1.14	
For Work In Restricted Working Space, Add	13.09	
22 11 16 00-0099 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	66.54	37.03
For 300 LB Rating, Add	41.07	
For ASTM 120, Deduct	-1.67	
For Work In Restricted Working Space, Add	16.63	
22 11 16 00-0100 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	116.04	54.77
For 300 LB Rating, Add	120.49	
For ASTM 120, Deduct	-5.10	
For Work In Restricted Working Space, Add	24.62	
22 11 16 00-0101 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	153.39	72.00
For 300 LB Rating, Add	160.94	
For ASTM 120, Deduct	-6.81	
For Work In Restricted Working Space, Add	32.39	
22 11 16 00-0102 EA 4", 150 LB, Galvanized Malleable Iron Coupling.....	206.12	73.11
For 300 LB Rating, Add	334.58	
For ASTM 120, Deduct	-14.47	
For Work In Restricted Working Space, Add	32.90	
22 11 16 00-0103 EA 5", 150 LB, Galvanized Malleable Iron Coupling.....	386.06	76.31
For 300 LB Rating, Add	930.47	
For ASTM 120, Deduct	-40.75	
For Work In Restricted Working Space, Add	34.32	
22 11 16 00-0104 EA 6", 150 LB, Galvanized Malleable Iron Coupling.....	429.09	79.79
For 300 LB Rating, Add	1,059.41	
For ASTM 120, Deduct	-46.42	
For Work In Restricted Working Space, Add	35.88	
22 11 16 00-0105 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0106 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	30.39	18.26
For 300 LB Rating, Add	11.98	
For ASTM 120, Deduct	-0.46	
For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0107 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	33.86	20.41
For 300 LB Rating, Add	12.89	
For ASTM 120, Deduct	-0.49	
For Work In Restricted Working Space, Add	9.18	
22 11 16 00-0108 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	39.61	22.77
For 300 LB Rating, Add	20.48	
For ASTM 120, Deduct	-0.81	
For Work In Restricted Working Space, Add	10.26	
22 11 16 00-0109 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	45.71	25.85
For 300 LB Rating, Add	26.16	
For ASTM 120, Deduct	-1.05	
For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0110 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	52.68	29.12
For 300 LB Rating, Add	33.35	
For ASTM 120, Deduct	-1.36	
For Work In Restricted Working Space, Add	13.09	
22 11 16 00-0111 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	67.77	37.03
For 300 LB Rating, Add	45.25	
For ASTM 120, Deduct	-1.85	
For Work In Restricted Working Space, Add	16.63	
22 11 16 00-0112 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	116.47	54.77
For 300 LB Rating, Add	121.95	
For ASTM 120, Deduct	-5.16	
For Work In Restricted Working Space, Add	24.62	
22 11 16 00-0113 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	152.10	72.00
For 300 LB Rating, Add	156.55	
For ASTM 120, Deduct	-6.62	
For Work In Restricted Working Space, Add	32.39	
22 11 16 00-0114 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	208.61	73.11
For 300 LB Rating, Add	343.04	
For ASTM 120, Deduct	-14.84	
For Work In Restricted Working Space, Add	32.90	
22 11 16 00-0115 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	400.36	76.31
For 300 LB Rating, Add	979.09	
For ASTM 120, Deduct	-42.89	
For Work In Restricted Working Space, Add	34.32	
22 11 16 00-0116 EA 6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	445.38	79.79
For 300 LB Rating, Add	1,114.79	
For ASTM 120, Deduct	-48.87	
For Work In Restricted Working Space, Add	35.88	

22 11 16 00-0117 Galvanized Malleable Iron Caps (22 11 16 00-0013)



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0118 EA 1/2", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	14.72 7.23 -0.29 3.85	8.51
22 11 16 00-0119 EA 3/4", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	16.30 9.76 -0.39 4.10	9.13
22 11 16 00-0120 EA 1", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	19.04 12.03 -0.49 4.73	10.57
22 11 16 00-0121 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	20.84 15.58 -0.64 4.97	11.08
22 11 16 00-0122 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	22.04 19.66 -0.82 4.97	11.08
22 11 16 00-0123 EA 2", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	29.75 27.47 -1.15 6.62	14.67
22 11 16 00-0124 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	49.70 77.63 -3.35 8.21	18.26
22 11 16 00-0125 EA 3", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	60.16 94.06 -4.06 9.92	22.05
22 11 16 00-0126 EA 4", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	97.42 205.68 -8.97 11.28	25.10
22 11 16 00-0127 EA 5", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	207.52 548.62 -24.08 14.10	31.39
22 11 16 00-0128 EA 6", 150 LB, Galvanized Malleable Iron Cap For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	258.87 693.15 -30.43 16.80	37.31
22 11 16 00-0129 Galvanized Malleable Iron Unions (22 11 16 00-0013)		
22 11 16 00-0130 EA 1/2", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	41.61 10.26	22.77
22 11 16 00-0131 EA 3/4", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	47.97 11.84	26.36
22 11 16 00-0132 EA 1", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	57.78 13.99	31.07
22 11 16 00-0133 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	71.58 16.63	37.03
22 11 16 00-0134 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	85.72 19.85	44.10
22 11 16 00-0135 EA 2", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	104.52 24.62	54.77
22 11 16 00-0136 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	199.19 36.34	80.72
22 11 16 00-0137 EA 3", 150 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	268.64 47.81	106.15
22 11 16 00-0138 EA 1/2", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	49.26 10.25	22.77
22 11 16 00-0139 EA 3/4", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	53.15 11.84	26.36
22 11 16 00-0140 EA 1", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	63.61 13.99	31.07
22 11 16 00-0141 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	81.16 16.63	37.03
22 11 16 00-0142 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	95.79 19.85	44.10
22 11 16 00-0143 EA 2", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	123.88 24.62	54.77
22 11 16 00-0144 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	231.16 36.34	80.72
22 11 16 00-0145 EA 3", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	328.19 47.81	106.15
22 11 16 00-0146 EA 4", 250 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	426.67 48.56	107.89
22 11 16 00-0147 EA 1/2", 300 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	51.36 10.25	22.77
22 11 16 00-0148 EA 3/4", 300 LB, Galvanized Malleable Iron Union For Work In Restricted Working Space, Add	58.08 11.84	26.36

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0149 EA 1", 300 LB, Galvanized Malleable Iron Union.....	71.34	31.07
For Work In Restricted Working Space, Add	13.99	
22 11 16 00-0150 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union	89.90	37.03
For Work In Restricted Working Space, Add	16.63	
22 11 16 00-0151 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union	107.67	44.10
For Work In Restricted Working Space, Add	19.85	
22 11 16 00-0152 EA 2", 300 LB, Galvanized Malleable Iron Union.....	131.87	54.77
For Work In Restricted Working Space, Add	24.62	
22 11 16 00-0153 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union	260.09	80.72
For Work In Restricted Working Space, Add	36.34	
22 11 16 00-0154 EA 3", 300 LB, Galvanized Malleable Iron Union.....	394.39	106.15
For Work In Restricted Working Space, Add	47.81	
22 11 16 00-0155 EA 4", 300 LB, Galvanized Malleable Iron Union.....	751.29	107.89
For Work In Restricted Working Space, Add	48.56	
22 11 16 00-0156 Galvanized Steel Nipples (22 11 16 00-0013)		
Note: ASTM A-53.		
22 11 16 00-0157 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple.....	15.42	9.74
For Schedule 80 Nipples, Add	0.88	
For ASTM 120, Deduct	-0.12	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0158 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	15.27	9.74
For Schedule 80 Nipples, Add	0.71	
For ASTM 120, Deduct	-0.09	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0159 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple.....	15.40	9.74
For Schedule 80 Nipples, Add	0.86	
For ASTM 120, Deduct	-0.11	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0160 EA 1" x Close, Schedule 40 Galvanized Steel Nipple.....	16.82	10.57
For Schedule 80 Nipples, Add	1.19	
For ASTM 120, Deduct	-0.16	
For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0161 EA 1-1/4" x Close, Schedule 40 Galvanized Steel Nipple	18.48	11.38
For Schedule 80 Nipples, Add	1.58	
For ASTM 120, Deduct	-0.21	
For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0162 EA 1-1/2" x Close, Schedule 40 Galvanized Steel Nipple	18.72	11.38
For Schedule 80 Nipples, Add	1.86	
For ASTM 120, Deduct	-0.24	
For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0163 EA 2" x Close, Schedule 40 Galvanized Steel Nipple.....	24.36	14.67
For Schedule 80 Nipples, Add	2.62	
For ASTM 120, Deduct	-0.35	
For Work In Restricted Working Space, Add	6.62	
22 11 16 00-0164 EA 2-1/2" x Close, Schedule 40 Galvanized Steel Nipple	34.19	18.26
For Schedule 80 Nipples, Add	7.80	
For ASTM 120, Deduct	-1.03	
For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0165 EA 3" x Close, Schedule 40 Galvanized Steel Nipple.....	41.28	22.05
For Schedule 80 Nipples, Add	9.35	
For ASTM 120, Deduct	-1.23	
For Work In Restricted Working Space, Add	9.92	
22 11 16 00-0166 EA 4" x Close, Schedule 40 Galvanized Steel Nipple.....	49.88	25.10
For Schedule 80 Nipples, Add	14.01	
For ASTM 120, Deduct	-1.84	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0167 EA 3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.53	9.74
For Schedule 80 Nipples, Add	1.00	
For ASTM 120, Deduct	-0.13	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0168 EA 1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.30	9.74
For Schedule 80 Nipples, Add	0.74	
For ASTM 120, Deduct	-0.10	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0169 EA 3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.47	9.74
For Schedule 80 Nipples, Add	0.93	
For ASTM 120, Deduct	-0.12	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0170 EA 3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.53	9.74
For Schedule 80 Nipples, Add	1.00	
For ASTM 120, Deduct	-0.13	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0171 EA 1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.30	9.74
For Schedule 80 Nipples, Add	0.74	
For ASTM 120, Deduct	-0.10	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0172 EA 3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	15.47	9.74
For Schedule 80 Nipples, Add	0.93	
For ASTM 120, Deduct	-0.12	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0173 EA 1" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	17.00	10.57
For Schedule 80 Nipples, Add	1.39	
For ASTM 120, Deduct	-0.18	
For Work In Restricted Working Space, Add	4.73	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0174	EA	1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	18.58	11.38	
		For Schedule 80 Nipples, Add	1.70		
		For ASTM 120, Deduct	-0.22		
		For Work In Restricted Working Space, Add	5.13		
22 11 16 00-0175	EA	1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	18.84	11.38	
		For Schedule 80 Nipples, Add	2.00		
		For ASTM 120, Deduct	-0.26		
		For Work In Restricted Working Space, Add	5.13		
22 11 16 00-0176	EA	3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.83	9.74	
		For Schedule 80 Nipples, Add	1.35		
		For ASTM 120, Deduct	-0.18		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0177	EA	1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.42	9.74	
		For Schedule 80 Nipples, Add	0.88		
		For ASTM 120, Deduct	-0.12		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0178	EA	3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.56	9.74	
		For Schedule 80 Nipples, Add	1.04		
		For ASTM 120, Deduct	-0.14		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0179	EA	1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.10	10.57	
		For Schedule 80 Nipples, Add	1.50		
		For ASTM 120, Deduct	-0.20		
		For Work In Restricted Working Space, Add	4.73		
22 11 16 00-0180	EA	1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	18.73	11.38	
		For Schedule 80 Nipples, Add	1.87		
		For ASTM 120, Deduct	-0.25		
		For Work In Restricted Working Space, Add	5.13		
22 11 16 00-0181	EA	1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.04	11.38	
		For Schedule 80 Nipples, Add	2.22		
		For ASTM 120, Deduct	-0.29		
		For Work In Restricted Working Space, Add	5.13		
22 11 16 00-0182	EA	2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.65	14.67	
		For Schedule 80 Nipples, Add	2.95		
		For ASTM 120, Deduct	-0.39		
		For Work In Restricted Working Space, Add	6.62		
22 11 16 00-0183	EA	3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	15.83	9.74	
		For Schedule 80 Nipples, Add	1.35		
		For ASTM 120, Deduct	-0.18		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0184	EA	1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	15.42	9.74	
		For Schedule 80 Nipples, Add	0.88		
		For ASTM 120, Deduct	-0.12		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0185	EA	3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	15.56	9.74	
		For Schedule 80 Nipples, Add	1.04		
		For ASTM 120, Deduct	-0.14		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0186	EA	1" x 3" Long, Schedule 40 Galvanized Steel Nipple	17.10	10.57	
		For Schedule 80 Nipples, Add	1.50		
		For ASTM 120, Deduct	-0.20		
		For Work In Restricted Working Space, Add	4.73		
22 11 16 00-0187	EA	1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	18.73	11.38	
		For Schedule 80 Nipples, Add	1.87		
		For ASTM 120, Deduct	-0.25		
		For Work In Restricted Working Space, Add	5.13		
22 11 16 00-0188	EA	1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	19.04	11.38	
		For Schedule 80 Nipples, Add	2.22		
		For ASTM 120, Deduct	-0.29		
		For Work In Restricted Working Space, Add	5.13		
22 11 16 00-0189	EA	2" x 3" Long, Schedule 40 Galvanized Steel Nipple	24.65	14.67	
		For Schedule 80 Nipples, Add	2.95		
		For ASTM 120, Deduct	-0.39		
		For Work In Restricted Working Space, Add	6.62		
22 11 16 00-0190	EA	2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	34.45	18.26	
		For Schedule 80 Nipples, Add	8.09		
		For ASTM 120, Deduct	-1.07		
		For Work In Restricted Working Space, Add	8.21		
22 11 16 00-0191	EA	3" x 3" Long, Schedule 40 Galvanized Steel Nipple	42.41	22.05	
		For Schedule 80 Nipples, Add	10.64		
		For ASTM 120, Deduct	-1.40		
		For Work In Restricted Working Space, Add	9.92		
22 11 16 00-0192	EA	3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	16.05	9.74	
		For Schedule 80 Nipples, Add	1.60		
		For ASTM 120, Deduct	-0.21		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0193	EA	1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.60	9.74	
		For Schedule 80 Nipples, Add	1.08		
		For ASTM 120, Deduct	-0.14		
		For Work In Restricted Working Space, Add	4.40		
22 11 16 00-0194	EA	3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.83	9.74	
		For Schedule 80 Nipples, Add	1.35		
		For ASTM 120, Deduct	-0.18		
		For Work In Restricted Working Space, Add	4.40		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0195	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.37	10.57
			For Schedule 80 Nipples, Add	1.81	
			For ASTM 120, Deduct	-0.24	
			For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0196	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.04	11.38
			For Schedule 80 Nipples, Add	2.22	
			For ASTM 120, Deduct	-0.29	
			For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0197	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.56	11.38
			For Schedule 80 Nipples, Add	2.82	
			For ASTM 120, Deduct	-0.37	
			For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0198	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.20	14.67
			For Schedule 80 Nipples, Add	3.58	
			For ASTM 120, Deduct	-0.47	
			For Work In Restricted Working Space, Add	6.62	
22 11 16 00-0199	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	35.59	18.26
			For Schedule 80 Nipples, Add	9.39	
			For ASTM 120, Deduct	-1.24	
			For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0200	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	44.02	22.05
			For Schedule 80 Nipples, Add	12.47	
			For ASTM 120, Deduct	-1.64	
			For Work In Restricted Working Space, Add	9.92	
22 11 16 00-0201	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	16.05	9.74
			For Schedule 80 Nipples, Add	1.60	
			For ASTM 120, Deduct	-0.21	
			For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0202	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	15.60	9.74
			For Schedule 80 Nipples, Add	1.08	
			For ASTM 120, Deduct	-0.14	
			For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0203	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	16.05	9.74
			For Schedule 80 Nipples, Add	1.60	
			For ASTM 120, Deduct	-0.21	
			For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0204	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	17.37	10.57
			For Schedule 80 Nipples, Add	1.81	
			For ASTM 120, Deduct	-0.24	
			For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0205	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	19.04	11.38
			For Schedule 80 Nipples, Add	2.22	
			For ASTM 120, Deduct	-0.29	
			For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0206	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	19.56	11.38
			For Schedule 80 Nipples, Add	2.82	
			For ASTM 120, Deduct	-0.37	
			For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0207	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	25.23	14.67
			For Schedule 80 Nipples, Add	3.61	
			For ASTM 120, Deduct	-0.48	
			For Work In Restricted Working Space, Add	6.62	
22 11 16 00-0208	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	35.59	18.26
			For Schedule 80 Nipples, Add	9.39	
			For ASTM 120, Deduct	-1.24	
			For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0209	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	44.02	22.05
			For Schedule 80 Nipples, Add	12.47	
			For ASTM 120, Deduct	-1.64	
			For Work In Restricted Working Space, Add	9.92	
22 11 16 00-0210	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	52.28	25.10
			For Schedule 80 Nipples, Add	16.75	
			For ASTM 120, Deduct	-2.20	
			For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0211	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	16.57	9.74
			For Schedule 80 Nipples, Add	2.19	
			For ASTM 120, Deduct	-0.29	
			For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0212	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.79	9.74
			For Schedule 80 Nipples, Add	1.30	
			For ASTM 120, Deduct	-0.17	
			For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0213	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	16.05	9.74
			For Schedule 80 Nipples, Add	1.60	
			For ASTM 120, Deduct	-0.21	
			For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0214	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.73	10.57
			For Schedule 80 Nipples, Add	2.22	
			For ASTM 120, Deduct	-0.29	
			For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0215	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.50	11.38
			For Schedule 80 Nipples, Add	2.75	
			For ASTM 120, Deduct	-0.36	
			For Work In Restricted Working Space, Add	5.13	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0216	EA	1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple		20.07	11.38
		For Schedule 80 Nipples, Add	.....	3.40	
		For ASTM 120, Deduct	.....	-0.45	
		For Work In Restricted Working Space, Add	.....	5.13	
22 11 16 00-0217	EA	2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	26.07	14.67
		For Schedule 80 Nipples, Add	.....	4.57	
		For ASTM 120, Deduct	.....	-0.60	
		For Work In Restricted Working Space, Add	.....	6.62	
22 11 16 00-0218	EA	2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	36.54	18.26
		For Schedule 80 Nipples, Add	.....	10.48	
		For ASTM 120, Deduct	.....	-1.38	
		For Work In Restricted Working Space, Add	.....	8.21	
22 11 16 00-0219	EA	3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	45.83	22.05
		For Schedule 80 Nipples, Add	.....	14.54	
		For ASTM 120, Deduct	.....	-1.91	
		For Work In Restricted Working Space, Add	.....	9.92	
22 11 16 00-0220	EA	4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	54.06	25.10
		For Schedule 80 Nipples, Add	.....	18.78	
		For ASTM 120, Deduct	.....	-2.47	
		For Work In Restricted Working Space, Add	.....	11.28	
22 11 16 00-0221	EA	3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	16.57	9.74
		For Schedule 80 Nipples, Add	.....	2.19	
		For ASTM 120, Deduct	.....	-0.29	
		For Work In Restricted Working Space, Add	.....	4.40	
22 11 16 00-0222	EA	1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	15.79	9.74
		For Schedule 80 Nipples, Add	.....	1.30	
		For ASTM 120, Deduct	.....	-0.17	
		For Work In Restricted Working Space, Add	.....	4.40	
22 11 16 00-0223	EA	3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	16.05	9.74
		For Schedule 80 Nipples, Add	.....	1.60	
		For ASTM 120, Deduct	.....	-0.21	
		For Work In Restricted Working Space, Add	.....	4.40	
22 11 16 00-0224	EA	1" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	17.73	10.57
		For Schedule 80 Nipples, Add	.....	2.22	
		For ASTM 120, Deduct	.....	-0.29	
		For Work In Restricted Working Space, Add	.....	4.73	
22 11 16 00-0225	EA	1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	19.50	11.38
		For Schedule 80 Nipples, Add	.....	2.75	
		For ASTM 120, Deduct	.....	-0.36	
		For Work In Restricted Working Space, Add	.....	5.13	
22 11 16 00-0226	EA	1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	20.07	11.38
		For Schedule 80 Nipples, Add	.....	3.40	
		For ASTM 120, Deduct	.....	-0.45	
		For Work In Restricted Working Space, Add	.....	5.13	
22 11 16 00-0227	EA	2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	26.07	14.67
		For Schedule 80 Nipples, Add	.....	4.57	
		For ASTM 120, Deduct	.....	-0.60	
		For Work In Restricted Working Space, Add	.....	6.62	
22 11 16 00-0228	EA	2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	36.54	18.26
		For Schedule 80 Nipples, Add	.....	10.48	
		For ASTM 120, Deduct	.....	-1.38	
		For Work In Restricted Working Space, Add	.....	8.21	
22 11 16 00-0229	EA	3" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	45.83	22.05
		For Schedule 80 Nipples, Add	.....	14.54	
		For ASTM 120, Deduct	.....	-1.91	
		For Work In Restricted Working Space, Add	.....	9.92	
22 11 16 00-0230	EA	4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	54.06	25.10
		For Schedule 80 Nipples, Add	.....	18.78	
		For ASTM 120, Deduct	.....	-2.47	
		For Work In Restricted Working Space, Add	.....	11.28	
22 11 16 00-0231	EA	3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	16.79	9.74
		For Schedule 80 Nipples, Add	.....	2.44	
		For ASTM 120, Deduct	.....	-0.32	
		For Work In Restricted Working Space, Add	.....	4.40	
22 11 16 00-0232	EA	1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	15.95	9.74
		For Schedule 80 Nipples, Add	.....	1.48	
		For ASTM 120, Deduct	.....	-0.20	
		For Work In Restricted Working Space, Add	.....	4.40	
22 11 16 00-0233	EA	3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	16.33	9.74
		For Schedule 80 Nipples, Add	.....	1.92	
		For ASTM 120, Deduct	.....	-0.25	
		For Work In Restricted Working Space, Add	.....	4.40	
22 11 16 00-0234	EA	1" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	17.99	10.57
		For Schedule 80 Nipples, Add	.....	2.52	
		For ASTM 120, Deduct	.....	-0.33	
		For Work In Restricted Working Space, Add	.....	4.73	
22 11 16 00-0235	EA	1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	19.89	11.38
		For Schedule 80 Nipples, Add	.....	3.19	
		For ASTM 120, Deduct	.....	-0.42	
		For Work In Restricted Working Space, Add	.....	5.13	
22 11 16 00-0236	EA	1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	20.44	11.38
		For Schedule 80 Nipples, Add		3.82	
		For ASTM 120, Deduct		-0.50	
		For Work In Restricted Working Space, Add		5.13	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0237 EA 2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	26.72	14.67
For Schedule 80 Nipples, Add	5.31	
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	6.62	
22 11 16 00-0238 EA 2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	37.45	18.26
For Schedule 80 Nipples, Add	11.51	
For ASTM 120, Deduct	-1.52	
For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0239 EA 3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	46.57	22.05
For Schedule 80 Nipples, Add	15.38	
For ASTM 120, Deduct	-2.02	
For Work In Restricted Working Space, Add	9.92	
22 11 16 00-0240 EA 4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	55.80	25.10
For Schedule 80 Nipples, Add	20.76	
For ASTM 120, Deduct	-2.73	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0241 EA 3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	23.19	9.74
For Schedule 80 Nipples, Add	9.74	
For ASTM 120, Deduct	-1.28	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0242 EA 1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	16.93	9.74
For Schedule 80 Nipples, Add	2.60	
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0243 EA 3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	17.57	9.74
For Schedule 80 Nipples, Add	3.33	
For ASTM 120, Deduct	-0.44	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0244 EA 1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	19.48	10.57
For Schedule 80 Nipples, Add	4.22	
For ASTM 120, Deduct	-0.56	
For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0245 EA 1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	21.63	11.38
For Schedule 80 Nipples, Add	5.18	
For ASTM 120, Deduct	-0.68	
For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0246 EA 1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	22.29	11.38
For Schedule 80 Nipples, Add	5.93	
For ASTM 120, Deduct	-0.78	
For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0247 EA 2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	29.65	14.67
For Schedule 80 Nipples, Add	8.65	
For ASTM 120, Deduct	-1.14	
For Work In Restricted Working Space, Add	6.62	
22 11 16 00-0248 EA 2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	40.35	18.26
For Schedule 80 Nipples, Add	14.82	
For ASTM 120, Deduct	-1.95	
For Work In Restricted Working Space, Add	8.21	
22 11 16 00-0249 EA 3" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	51.25	22.05
For Schedule 80 Nipples, Add	20.71	
For ASTM 120, Deduct	-2.73	
For Work In Restricted Working Space, Add	9.92	
22 11 16 00-0250 EA 4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	59.32	25.10
For Schedule 80 Nipples, Add	24.77	
For ASTM 120, Deduct	-3.26	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0251 EA 3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	18.73	9.74
For Schedule 80 Nipples, Add	4.65	
For ASTM 120, Deduct	-0.61	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0252 EA 1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	17.36	9.74
For Schedule 80 Nipples, Add	3.09	
For ASTM 120, Deduct	-0.41	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0253 EA 3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	17.89	9.74
For Schedule 80 Nipples, Add	3.69	
For ASTM 120, Deduct	-0.49	
For Work In Restricted Working Space, Add	4.40	
22 11 16 00-0254 EA 1" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	20.01	10.57
For Schedule 80 Nipples, Add	4.82	
For ASTM 120, Deduct	-0.63	
For Work In Restricted Working Space, Add	4.73	
22 11 16 00-0255 EA 1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	22.51	11.38
For Schedule 80 Nipples, Add	6.18	
For ASTM 120, Deduct	-0.81	
For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0256 EA 1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	23.16	11.38
For Schedule 80 Nipples, Add	6.92	
For ASTM 120, Deduct	-0.91	
For Work In Restricted Working Space, Add	5.13	
22 11 16 00-0257 EA 2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	30.94	14.67
For Schedule 80 Nipples, Add	10.12	
For ASTM 120, Deduct	-1.33	
For Work In Restricted Working Space, Add	6.62	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0258	EA	2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple		42.17	18.26
		For Schedule 80 Nipples, Add		16.89	
		For ASTM 120, Deduct		-2.22	
		For Work In Restricted Working Space, Add		8.21	
22 11 16 00-0259	EA	3" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	53.81	22.05
		For Schedule 80 Nipples, Add		23.63	
		For ASTM 120, Deduct		-3.11	
		For Work In Restricted Working Space, Add		9.92	
22 11 16 00-0260	EA	4" x 10" Long, Schedule 40 Galvanized Steel Nipple	.....	62.78	25.10
		For Schedule 80 Nipples, Add		28.72	
		For ASTM 120, Deduct		-3.78	
		For Work In Restricted Working Space, Add		11.28	
22 11 16 00-0261	EA	3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	19.17	9.74
		For Schedule 80 Nipples, Add		5.15	
		For ASTM 120, Deduct		-0.68	
		For Work In Restricted Working Space, Add		4.40	
22 11 16 00-0262	EA	1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	17.74	9.74
		For Schedule 80 Nipples, Add		3.52	
		For ASTM 120, Deduct		-0.46	
		For Work In Restricted Working Space, Add		4.40	
22 11 16 00-0263	EA	3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	18.28	9.74
		For Schedule 80 Nipples, Add		4.14	
		For ASTM 120, Deduct		-0.54	
		For Work In Restricted Working Space, Add		4.40	
22 11 16 00-0264	EA	1" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	20.70	10.57
		For Schedule 80 Nipples, Add		5.61	
		For ASTM 120, Deduct		-0.74	
		For Work In Restricted Working Space, Add		4.73	
22 11 16 00-0265	EA	1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	23.60	11.38
		For Schedule 80 Nipples, Add		7.42	
		For ASTM 120, Deduct		-0.98	
		For Work In Restricted Working Space, Add		5.13	
22 11 16 00-0266	EA	1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	24.03	11.38
		For Schedule 80 Nipples, Add		7.91	
		For ASTM 120, Deduct		-1.04	
		For Work In Restricted Working Space, Add		5.13	
22 11 16 00-0267	EA	2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	32.25	14.67
		For Schedule 80 Nipples, Add		11.62	
		For ASTM 120, Deduct		-1.53	
		For Work In Restricted Working Space, Add		6.62	
22 11 16 00-0268	EA	2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	43.93	18.26
		For Schedule 80 Nipples, Add		18.90	
		For ASTM 120, Deduct		-2.49	
		For Work In Restricted Working Space, Add		8.21	
22 11 16 00-0269	EA	3" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	56.39	22.05
		For Schedule 80 Nipples, Add		26.57	
		For ASTM 120, Deduct		-3.50	
		For Work In Restricted Working Space, Add		9.92	
22 11 16 00-0270	EA	4" x 12" Long, Schedule 40 Galvanized Steel Nipple	.....	66.26	25.10
		For Schedule 80 Nipples, Add		32.68	
		For ASTM 120, Deduct		-4.30	
		For Work In Restricted Working Space, Add		11.28	
22 11 16 00-0271	Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)				
22 11 16 00-0272	EA	1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	14.01	7.28
		For 300 LB Rating, Add		11.06	
		For Work In Restricted Working Space, Add		3.29	
22 11 16 00-0273	EA	3/4", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	15.30	8.20
		For 300 LB Rating, Add		11.14	
		For Work In Restricted Working Space, Add		3.67	
22 11 16 00-0274	EA	1", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	17.02	9.13
		For 300 LB Rating, Add		12.21	
		For Work In Restricted Working Space, Add		4.10	
22 11 16 00-0275	EA	1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	20.64	10.35
		For 300 LB Rating, Add		18.47	
		For Work In Restricted Working Space, Add		4.64	
22 11 16 00-0276	EA	1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	24.39	11.59
		For 300 LB Rating, Add		24.64	
		For Work In Restricted Working Space, Add		5.24	
22 11 16 00-0277	EA	2", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	31.01	14.77
		For 300 LB Rating, Add		31.35	
		For Work In Restricted Working Space, Add		6.65	
22 11 16 00-0278	EA	2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	50.04	21.85
		For 300 LB Rating, Add		60.52	
		For Work In Restricted Working Space, Add		9.85	
22 11 16 00-0279	EA	3", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	67.62	28.82
		For 300 LB Rating, Add		85.65	
		For Work In Restricted Working Space, Add		12.96	
22 11 16 00-0280	EA	4", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	94.59	29.23
		For 300 LB Rating, Add		175.11	
		For Work In Restricted Working Space, Add		13.16	
22 11 16 00-0281	EA	5", 150 LB, Galvanized Malleable Iron Square Head Plug	.....	138.84	30.54
		For 300 LB Rating, Add		319.18	
		For Work In Restricted Working Space, Add		13.73	

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22 11 16 00-0282 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	148.47 344.98 14.36	31.86
22 11 16 00-0283 Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0284 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	33.12 8.69	19.28
22 11 16 00-0285 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	35.73 9.23	20.51
22 11 16 00-0286 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	37.10 9.72	21.64
22 11 16 00-0287 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	39.96 9.91	22.05
22 11 16 00-0288 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	40.96 10.40	23.08
22 11 16 00-0289 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	42.75 10.93	24.31
22 11 16 00-0290 EA 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	44.68 10.65	23.69
22 11 16 00-0291 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	46.31 11.14	24.72
22 11 16 00-0292 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	47.19 11.67	25.95
22 11 16 00-0293 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	48.81 12.35	27.48
22 11 16 00-0294 EA 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	52.86 12.42	27.59
22 11 16 00-0295 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	53.69 12.91	28.72
22 11 16 00-0296 EA 2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	54.89 13.44	29.85
22 11 16 00-0297 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	57.15 14.12	31.39
22 11 16 00-0298 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	58.38 14.86	33.02
22 11 16 00-0299 EA 2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	72.92 16.90	37.54
22 11 16 00-0300 EA 2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	74.71 17.44	38.76
22 11 16 00-0301 EA 2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	76.96 18.11	40.20
22 11 16 00-0302 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	79.13 18.86	41.95
22 11 16 00-0303 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	83.17 20.63	45.84
22 11 16 00-0304 EA 3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	91.19 20.79	46.15
22 11 16 00-0305 EA 3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	92.96 21.32	47.38
22 11 16 00-0306 EA 3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	95.23 22.00	48.92
22 11 16 00-0307 EA 3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	97.26 22.74	50.57
22 11 16 00-0308 EA 3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	101.16 24.51	54.46
22 11 16 00-0309 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	115.59 28.50	63.38
22 11 16 00-0310 EA 4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	114.73 20.66	45.86
22 11 16 00-0311 EA 4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	116.37 21.15	46.99
22 11 16 00-0312 EA 4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	118.43 21.77	48.40
22 11 16 00-0313 EA 4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	120.70 22.45	49.91
22 11 16 00-0314 EA 4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	120.71 24.07	53.47
22 11 16 00-0315 EA 4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	138.29 27.72	61.65
22 11 16 00-0316 EA 4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... For Work In Restricted Working Space, Add	147.15 31.29	69.55
22 11 16 00-0317 Galvanized Malleable Iron Floor Flange (22 11 16 00-0013)		
22 11 16 00-0318 EA 1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	62.51	37.48
22 11 16 00-0319 EA 3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	68.34	41.03
22 11 16 00-0320 EA 1", 150 LB, Galvanized Malleable Iron Floor Flange.....	78.37	46.35
22 11 16 00-0321 EA 1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	81.42	48.00
22 11 16 00-0322 EA 1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	88.60	52.21
22 11 16 00-0323 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange.....	95.16	54.46



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22 11 16 00-0324 Galvanized Cast Iron Flanges (22 11 16 00-0013)		
22 11 16 00-0325 EA 3/4", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	114.61 18.46	41.03
22 11 16 00-0326 EA 1", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	110.63 20.86	46.35
22 11 16 00-0327 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	93.69 21.59	48.00
22 11 16 00-0328 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	126.56 23.49	52.21
22 11 16 00-0329 EA 2", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	124.16 24.51	54.46
22 11 16 00-0330 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	144.17 28.35	63.07
22 11 16 00-0331 EA 3", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	254.04 35.98	80.00
22 11 16 00-0332 EA 4", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	232.53 45.10	100.28
22 11 16 00-0333 EA 5", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	308.01 53.69	119.36
22 11 16 00-0334 EA 6", 125 LB, Galvanized Cast Iron Flange..... For Work In Restricted Working Space, Add	343.51 61.67	137.12
22 11 16 00-0335 Cut And Thread Existing In-Place Galvanized Steel Pipe (22 11 16 00-0013) Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0336 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	33.43 10.03	
22 11 16 00-0337 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	36.77 11.03	
22 11 16 00-0338 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	40.12 12.04	
22 11 16 00-0339 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	43.46 13.04	
22 11 16 00-0340 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	45.68 13.70	
22 11 16 00-0341 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	47.92 14.38	
22 11 16 00-0342 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	50.15 15.05	
22 11 16 00-0343 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	52.38 15.71	
22 11 16 00-0344 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe..... For Work In Restricted Working Space, Add	54.60 16.38	
22 11 16 00-0345 Copper Pipe And Fittings (22 11 16) Note: Excludes hangers. See CSI section 22 11 16 00-0756 for pipe with fittings assembly.		
22 11 16 00-0346 Copper Tube/Pipe (22 11 16 00-0345) Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0347 Hard Drawn Type L Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0348 LF 1/4" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	4.59 0.07 1.13	2.50
22 11 16 00-0349 LF 3/8" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	5.18 0.10 1.18	2.60
22 11 16 00-0350 LF 1/2" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	5.63 0.12 1.22	2.72
22 11 16 00-0351 LF 3/4" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	6.71 0.19 1.30	2.88
22 11 16 00-0352 LF 1" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	8.28 0.27 1.46	3.25
22 11 16 00-0353 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	12.02 0.38 2.17	4.82
22 11 16 00-0354 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	14.82 0.54 2.42	5.39
22 11 16 00-0355 LF 2" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	24.01 1.12 2.99	6.64
22 11 16 00-0356 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	44.30 1.55 7.46	8.29
22 11 16 00-0357 LF 3" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	51.74 1.93 8.27	9.20
22 11 16 00-0358 LF 4" Hard Drawn Type L Copper Tube/Pipe..... For Medical/Oxygen Service Tubing, Add For Work In Restricted Working Space, Add	69.80 3.10 9.33	10.37

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0359 LF 5" Hard Drawn Type L Copper Tube/Pipe.....142.89		11.92
For Medical/Oxygen Service Tubing, Add	8.57	
For Work In Restricted Working Space, Add	10.73	
22 11 16 00-0360 LF 6" Hard Drawn Type L Copper Tube/Pipe.....177.30		18.47
For Medical/Oxygen Service Tubing, Add	9.75	
For Work In Restricted Working Space, Add	16.61	
22 11 16 00-0361 LF 8" Hard Drawn Type L Copper Tube/Pipe.....282.00		20.53
For Medical/Oxygen Service Tubing, Add	17.64	
For Work In Restricted Working Space, Add	18.47	
22 11 16 00-0362 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0363 LF 1/4" Hard Drawn Type K Copper Tube/Pipe .....5.00		2.69
For Medical/Oxygen Service Tubing, Add	0.08	
For Work In Restricted Working Space, Add	1.21	
22 11 16 00-0364 LF 3/8" Hard Drawn Type K Copper Tube/Pipe .....6.33		3.09
For Medical/Oxygen Service Tubing, Add	0.14	
For Work In Restricted Working Space, Add	1.39	
22 11 16 00-0365 LF 1/2" Hard Drawn Type K Copper Tube/Pipe .....6.37		3.00
For Medical/Oxygen Service Tubing, Add	0.15	
For Work In Restricted Working Space, Add	1.35	
22 11 16 00-0366 LF 3/4" Hard Drawn Type K Copper Tube/Pipe .....8.57		3.48
For Medical/Oxygen Service Tubing, Add	0.27	
For Work In Restricted Working Space, Add	1.57	
22 11 16 00-0367 LF 1" Hard Drawn Type K Copper Tube/Pipe .....9.93		3.70
For Medical/Oxygen Service Tubing, Add	0.35	
For Work In Restricted Working Space, Add	1.67	
22 11 16 00-0368 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe .....13.51		5.25
For Medical/Oxygen Service Tubing, Add	0.45	
For Work In Restricted Working Space, Add	2.36	
22 11 16 00-0369 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe .....16.89		5.90
For Medical/Oxygen Service Tubing, Add	0.64	
For Work In Restricted Working Space, Add	2.65	
22 11 16 00-0370 LF 2" Hard Drawn Type K Copper Tube/Pipe .....27.38		7.23
For Medical/Oxygen Service Tubing, Add	1.32	
For Work In Restricted Working Space, Add	3.25	
22 11 16 00-0371 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe .....50.09		18.10
For Medical/Oxygen Service Tubing, Add	1.84	
For Work In Restricted Working Space, Add	8.14	
22 11 16 00-0372 LF 3" Hard Drawn Type K Copper Tube/Pipe .....59.37		20.24
For Medical/Oxygen Service Tubing, Add	2.32	
For Work In Restricted Working Space, Add	9.11	
22 11 16 00-0373 LF 4" Hard Drawn Type K Copper Tube/Pipe .....81.20		22.93
For Medical/Oxygen Service Tubing, Add	3.75	
For Work In Restricted Working Space, Add	10.31	
22 11 16 00-0374 LF 5" Hard Drawn Type K Copper Tube/Pipe .....176.73		27.07
For Medical/Oxygen Service Tubing, Add	10.89	
For Work In Restricted Working Space, Add	12.17	
22 11 16 00-0375 LF 6" Hard Drawn Type K Copper Tube/Pipe .....231.57		43.64
For Medical/Oxygen Service Tubing, Add	13.29	
For Work In Restricted Working Space, Add	19.63	
22 11 16 00-0376 LF 8" Hard Drawn Type K Copper Tube/Pipe .....367.94		48.08
For Medical/Oxygen Service Tubing, Add	23.67	
For Work In Restricted Working Space, Add	21.63	
22 11 16 00-0377 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0346)		
22 11 16 00-0378 LF 1/4" Hard Drawn Type M Copper Tube/Pipe.....3.97		2.16
For Work In Restricted Working Space, Add	0.97	
22 11 16 00-0379 LF 3/8" Hard Drawn Type M Copper Tube/Pipe.....4.05		2.08
For Work In Restricted Working Space, Add	0.94	
22 11 16 00-0380 LF 1/2" Hard Drawn Type M Copper Tube/Pipe.....4.34		2.15
For Work In Restricted Working Space, Add	0.97	
22 11 16 00-0381 LF 3/4" Hard Drawn Type M Copper Tube/Pipe.....5.15		2.28
For Work In Restricted Working Space, Add	1.03	
22 11 16 00-0382 LF 1" Hard Drawn Type M Copper Tube/Pipe.....6.26		2.55
For Work In Restricted Working Space, Add	1.15	
22 11 16 00-0383 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe .....9.59		3.93
For Work In Restricted Working Space, Add	1.77	
22 11 16 00-0384 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe .....12.34		4.51
For Work In Restricted Working Space, Add	2.03	
22 11 16 00-0385 LF 2" Hard Drawn Type M Copper Tube/Pipe.....20.13		5.60
For Work In Restricted Working Space, Add	2.52	
22 11 16 00-0386 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe .....38.53		15.09
For Work In Restricted Working Space, Add	6.79	
22 11 16 00-0387 LF 3" Hard Drawn Type M Copper Tube/Pipe.....44.32		16.60
For Work In Restricted Working Space, Add	7.46	
22 11 16 00-0388 LF 4" Hard Drawn Type M Copper Tube/Pipe.....62.54		19.36
For Work In Restricted Working Space, Add	8.71	
22 11 16 00-0389 LF 5" Hard Drawn Type M Copper Tube/Pipe.....127.29		22.36
For Work In Restricted Working Space, Add	10.06	
22 11 16 00-0390 LF 6" Hard Drawn Type M Copper Tube/Pipe.....158.53		34.62
For Work In Restricted Working Space, Add	15.57	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0391 LF 8" Hard Drawn Type M Copper Tube/Pipe For Work In Restricted Working Space, Add	245.57 17.13	38.09
22 11 16 00-0392 Soft Drawn Type L Copper Tube (22 11 16 00-0346)		
22 11 16 00-0393 LF 1/4" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	4.65 1.13	0.28
22 11 16 00-0394 LF 3/8" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	5.32 1.18	2.60
22 11 16 00-0395 LF 1/2" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	5.90 1.22	2.72
22 11 16 00-0396 LF 5/8" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	6.63 1.26	2.80
22 11 16 00-0397 LF 3/4" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	7.12 1.30	2.88
22 11 16 00-0398 LF 1" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	8.86 1.46	3.25
22 11 16 00-0399 LF 1-1/4" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	13.29 2.17	4.82
22 11 16 00-0400 LF 1-1/2" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	15.84 2.42	5.39
22 11 16 00-0401 LF 2" Soft Drawn Type L Copper Tube For Work In Restricted Working Space, Add	22.66 2.99	6.64
22 11 16 00-0402 Soft Drawn Type K Copper Tube (22 11 16 00-0346)		
22 11 16 00-0403 LF 1/4" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	4.82 1.13	0.28
22 11 16 00-0404 LF 3/8" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	5.85 1.18	2.60
22 11 16 00-0405 LF 1/2" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	6.24 1.22	2.72
22 11 16 00-0406 LF 5/8" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	6.97 1.26	2.80
22 11 16 00-0407 LF 3/4" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	8.14 1.30	2.88
22 11 16 00-0408 LF 1" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	9.95 1.46	3.25
22 11 16 00-0409 LF 1-1/4" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	14.10 2.17	4.82
22 11 16 00-0410 LF 1-1/2" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	17.09 2.42	5.39
22 11 16 00-0411 LF 2" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	24.31 2.99	6.64
22 11 16 00-0412 LF 2-1/2" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	29.18 3.58	7.97
22 11 16 00-0413 LF 3" Soft Drawn Type K Copper Tube For Work In Restricted Working Space, Add	38.19 4.23	9.40
22 11 16 00-0414 Copper And Brass Fittings (22 11 16 00-0346) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0415 90 Degree Copper Elbows (22 11 16 00-0414)		
22 11 16 00-0416 EA 1/4" 90 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	23.39 3.40 -2.28 3.34 0.44 6.69	14.86
22 11 16 00-0417 EA 3/8" 90 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	27.91 4.07 -2.73 4.01 0.47 8.02	17.83
22 11 16 00-0418 EA 1/2" 90 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	37.15 5.53 -3.70 5.52 0.15 11.03	24.51
22 11 16 00-0419 EA 3/4" 90 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	46.53 6.89 -4.61 6.85 0.34 13.70	30.53
22 11 16 00-0420 EA 1" 90 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	56.68 8.29 -5.56 8.19 0.83 16.38	36.44

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0421	EA	1-1/4"	90 Degree Copper Elbow	62.17	39.44
			For Silver Solder Instead Of 95/5 Solder, Add	9.01	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.06	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.86	
			For Street Fitting, Add	1.24	
			For Work In Restricted Working Space, Add	17.72	
22 11 16 00-0422	EA	1-1/2"	90 Degree Copper Elbow	69.49	43.12
			For Silver Solder Instead Of 95/5 Solder, Add	9.94	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.71	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.69	
			For Street Fitting, Add	1.94	
			For Work In Restricted Working Space, Add	19.39	
22 11 16 00-0423	EA	2"	90 Degree Copper Elbow	81.30	48.36
			For Silver Solder Instead Of 95/5 Solder, Add	11.31	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.69	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.87	
			For Street Fitting, Add	3.54	
			For Work In Restricted Working Space, Add	21.73	
22 11 16 00-0424	EA	2-1/2"	90 Degree Copper Elbow	91.23	49.23
			For Silver Solder Instead Of 95/5 Solder, Add	11.95	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.25	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.08	
			For Work In Restricted Working Space, Add	22.16	
22 11 16 00-0425	EA	3"	90 Degree Copper Elbow	112.71	58.87
			For Silver Solder Instead Of 95/5 Solder, Add	14.46	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.05	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.23	
			For Work In Restricted Working Space, Add	26.46	
22 11 16 00-0426	EA	4"	90 Degree Copper Elbow	184.59	83.49
			For Silver Solder Instead Of 95/5 Solder, Add	21.74	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.49	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.77	
			For Work In Restricted Working Space, Add	37.54	
22 11 16 00-0427	EA	5"	90 Degree Copper Elbow	420.38	114.25
			For Silver Solder Instead Of 95/5 Solder, Add	38.15	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-29.58	
			For Brazed Fittings Instead Of 95/5 Solder, Add	25.69	
			For Work In Restricted Working Space, Add	51.38	
22 11 16 00-0428	EA	6"	90 Degree Copper Elbow	581.29	166.26
			For Silver Solder Instead Of 95/5 Solder, Add	53.99	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.53	
			For Brazed Fittings Instead Of 95/5 Solder, Add	37.38	
			For Work In Restricted Working Space, Add	74.77	
22 11 16 00-0429	EA	8"	90 Degree Copper Elbow	1,560.80	221.64
			For Silver Solder Instead Of 95/5 Solder, Add	111.27	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-94.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	49.85	
			For Work In Restricted Working Space, Add	99.69	
22 11 16 00-0430 90 Degree Brass Elbows (22 11 16 00-0414)					
22 11 16 00-0431	EA	1/2"	Drop Ear 90 Degree Brass Elbow	39.14	24.51
			For Silver Solder Instead Of 95/5 Solder, Add	5.63	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.80	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.52	
			For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0432	EA	3/4"	Drop Ear 90 Degree Brass Elbow	52.60	30.53
			For Silver Solder Instead Of 95/5 Solder, Add	7.20	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
			For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0433	EA	1/2"	Flanged Sink 90 Degree Brass Elbow	41.10	24.51
			For Silver Solder Instead Of 95/5 Solder, Add	5.73	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.89	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.52	
			For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0434	EA	3/8"	Drop Ear 90 Degree Brass Elbow, Solder X Threaded	30.29	17.83
			For Silver Solder Instead Of 95/5 Solder, Add	4.19	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.85	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
			For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0435	EA	1/2"	Drop Ear 90 Degree Brass Elbow, Solder X Threaded	39.31	24.51
			For Silver Solder Instead Of 95/5 Solder, Add	5.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.80	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.52	
			For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0436	EA	3/4"	Drop Ear 90 Degree Brass Elbow, Solder X Threaded	50.15	30.53
			For Silver Solder Instead Of 95/5 Solder, Add	7.08	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.79	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
			For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0437	EA	1"	Drop Ear 90 Degree Brass Elbow, Solder X Threaded	68.88	36.44
			For Silver Solder Instead Of 95/5 Solder, Add	8.90	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.17	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
			For Work In Restricted Working Space, Add	16.38	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0438 Reducing 90 Degree Copper Elbows (22 11 16 00-0414)		
22 11 16 00-0439 EA 1/2" Reducing 90 Degree Copper Elbow	39.84	24.51
For Silver Solder Instead Of 95/5 Solder, Add	5.67	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.83	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.52	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0440 EA 3/4" Reducing 90 Degree Copper Elbow	47.85	30.53
For Silver Solder Instead Of 95/5 Solder, Add	6.96	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0441 EA 1" Reducing 90 Degree Copper Elbow	58.59	36.44
For Silver Solder Instead Of 95/5 Solder, Add	8.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0442 EA 1-1/4" Reducing 90 Degree Copper Elbow	69.22	39.44
For Silver Solder Instead Of 95/5 Solder, Add	9.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.86	
For Work In Restricted Working Space, Add	17.72	
22 11 16 00-0443 EA 1-1/2" Reducing 90 Degree Copper Elbow	77.99	43.12
For Silver Solder Instead Of 95/5 Solder, Add	10.36	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.13	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.69	
For Work In Restricted Working Space, Add	19.39	
22 11 16 00-0444 EA 2" Reducing 90 Degree Copper Elbow	90.42	48.36
For Silver Solder Instead Of 95/5 Solder, Add	11.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.14	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.87	
For Work In Restricted Working Space, Add	21.73	
22 11 16 00-0445 45 Degree Copper Elbows (22 11 16 00-0414)		
22 11 16 00-0446 EA 1/4" 45 Degree Copper Elbow	24.35	14.86
For Silver Solder Instead Of 95/5 Solder, Add	3.45	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.33	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.34	
For Street Fitting, Add	0.82	
For Work In Restricted Working Space, Add	6.69	
22 11 16 00-0447 EA 3/8" 45 Degree Copper Elbow	28.50	17.83
For Silver Solder Instead Of 95/5 Solder, Add	4.10	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.76	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
For Street Fitting, Add	0.70	
For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0448 EA 1/2" 45 Degree Copper Elbow	37.46	24.51
For Silver Solder Instead Of 95/5 Solder, Add	5.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.52	
For Street Fitting, Add	0.28	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0449 EA 3/4" 45 Degree Copper Elbow	46.87	30.53
For Silver Solder Instead Of 95/5 Solder, Add	6.91	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.63	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
For Street Fitting, Add	0.48	
For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0450 EA 1" 45 Degree Copper Elbow	57.56	36.44
For Silver Solder Instead Of 95/5 Solder, Add	8.34	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.61	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
For Street Fitting, Add	1.18	
For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0451 EA 1-1/4" 45 Degree Copper Elbow	63.07	39.44
For Silver Solder Instead Of 95/5 Solder, Add	9.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.86	
For Street Fitting, Add	1.60	
For Work In Restricted Working Space, Add	17.72	
22 11 16 00-0452 EA 1-1/2" 45 Degree Copper Elbow	69.55	43.12
For Silver Solder Instead Of 95/5 Solder, Add	9.94	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.69	
For Street Fitting, Add	1.97	
For Work In Restricted Working Space, Add	19.39	
22 11 16 00-0453 EA 2" 45 Degree Copper Elbow	80.65	48.36
For Silver Solder Instead Of 95/5 Solder, Add	11.28	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.87	
For Work In Restricted Working Space, Add	21.73	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0454 EA 2-1/2" 45 Degree Copper Elbow	91.02	49.23
For Silver Solder Instead Of 95/5 Solder, Add	11.94	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.08	
For Work In Restricted Working Space, Add	22.16	
22 11 16 00-0455 EA 3" 45 Degree Copper Elbow	113.67	58.87
For Silver Solder Instead Of 95/5 Solder, Add	14.50	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.23	
For Work In Restricted Working Space, Add	26.46	
22 11 16 00-0456 EA 4" 45 Degree Copper Elbow	179.45	83.49
For Silver Solder Instead Of 95/5 Solder, Add	21.49	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.77	
For Work In Restricted Working Space, Add	37.54	
22 11 16 00-0457 EA 5" 45 Degree Copper Elbow	381.64	114.25
For Silver Solder Instead Of 95/5 Solder, Add	36.21	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.69	
For Work In Restricted Working Space, Add	51.38	
22 11 16 00-0458 EA 6" 45 Degree Copper Elbow	580.73	166.26
For Silver Solder Instead Of 95/5 Solder, Add	53.96	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	37.38	
For Work In Restricted Working Space, Add	74.77	
22 11 16 00-0459 EA 8" 45 Degree Copper Elbow	1,458.74	221.64
For Silver Solder Instead Of 95/5 Solder, Add	106.17	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-89.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	49.85	
For Work In Restricted Working Space, Add	99.69	
22 11 16 00-0460 Straight Copper And Brass Tees (22 11 16 00-0414)		
22 11 16 00-0461 EA 1/4" Straight Copper Tee	35.74	22.29
For Silver Solder Instead Of 95/5 Solder, Add	5.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.01	
For Work In Restricted Working Space, Add	10.03	
22 11 16 00-0462 EA 3/8" Straight Copper Tee	41.98	26.74
For Silver Solder Instead Of 95/5 Solder, Add	6.11	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.02	
For Work In Restricted Working Space, Add	12.04	
22 11 16 00-0463 EA 1/2" Straight Copper Tee	56.36	37.22
For Silver Solder Instead Of 95/5 Solder, Add	8.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.36	
For Work In Restricted Working Space, Add	16.71	
22 11 16 00-0464 EA 3/4" Straight Copper Tee	70.64	46.14
For Silver Solder Instead Of 95/5 Solder, Add	10.44	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.99	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.36	
For Work In Restricted Working Space, Add	20.73	
22 11 16 00-0465 EA 1" Straight Copper Tee	87.13	55.05
For Silver Solder Instead Of 95/5 Solder, Add	12.60	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.37	
For Work In Restricted Working Space, Add	24.74	
22 11 16 00-0466 EA 1-1/4" Straight Copper Tee	95.66	59.50
For Silver Solder Instead Of 95/5 Solder, Add	13.70	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.37	
For Work In Restricted Working Space, Add	26.75	
22 11 16 00-0467 EA 1-1/2" Straight Copper Tee	106.80	64.63
For Silver Solder Instead Of 95/5 Solder, Add	15.04	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.54	
For Work In Restricted Working Space, Add	29.09	
22 11 16 00-0468 EA 2" Straight Copper Tee	124.87	72.88
For Silver Solder Instead Of 95/5 Solder, Add	17.16	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.38	
For Work In Restricted Working Space, Add	32.76	
22 11 16 00-0469 EA 2-1/2" Straight Copper Tee	141.74	73.85
For Silver Solder Instead Of 95/5 Solder, Add	18.16	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.63	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.61	
For Work In Restricted Working Space, Add	33.23	
22 11 16 00-0470 EA 3" Straight Copper Tee	180.65	88.92
For Silver Solder Instead Of 95/5 Solder, Add	22.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.00	
For Work In Restricted Working Space, Add	40.00	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
22 11 16 00-0471	EA	4" Straight Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	301.19 33.73 -24.39 28.00 56.00	124.51
22 11 16 00-0472	EA	5" Straight Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	629.79 57.03 -44.26 38.31 76.61	170.36
22 11 16 00-0473	EA	6" Straight Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	886.16 81.74 -63.03 56.15 112.31	249.74
22 11 16 00-0474	EA	8" Straight Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	2,472.75 173.48 -148.56 74.77 149.54	332.51
22 11 16 00-0475	EA	1/2" Cast Bronze Drop Ear Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	59.71 8.56 -5.77 8.36 16.71	37.22
22 11 16 00-0476		Reducing Copper Tees (22 11 16 00-0414)		
22 11 16 00-0477	EA	3/8" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	39.34 5.53 -3.75 5.35 10.70	23.74
22 11 16 00-0478	EA	1/2" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	53.38 7.68 -5.18 7.52 15.05	33.43
22 11 16 00-0479	EA	3/4" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	66.28 9.78 -6.55 9.69 19.39	43.12
22 11 16 00-0480	EA	1" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	83.24 11.96 -8.06 11.70 23.40	52.04
22 11 16 00-0481	EA	1-1/4" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	92.64 13.10 -8.87 12.70 25.41	56.50
22 11 16 00-0482	EA	1-1/2" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	103.73 14.44 -9.81 13.87 27.75	61.73
22 11 16 00-0483	EA	2" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	119.87 16.36 -11.18 15.54 31.09	69.09
22 11 16 00-0484	EA	2-1/2" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	140.59 17.70 -12.36 16.00 32.00	71.18
22 11 16 00-0485	EA	3" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	178.80 21.25 -15.09 18.46 36.92	82.05
22 11 16 00-0486	EA	4" Reducing Copper Tee..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	269.10 28.63 -21.04 22.77 45.54	101.23
22 11 16 00-0487		Copper Couplings (22 11 16 00-0414)		
22 11 16 00-0488	EA	1/4" Copper Coupling..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	22.51 3.35 -2.24 3.34 6.69	14.86

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0489	EA	3/8" Copper Coupling.....	27.03	17.83
		For Silver Solder Instead Of 95/5 Solder, Add	4.03	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.69	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
		For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0490	EA	1/2" Copper Coupling.....	37.01	24.51
		For Silver Solder Instead Of 95/5 Solder, Add	5.53	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.69	
		For Brazed Fittings Instead Of 95/5 Solder, Add	5.52	
		For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0491	EA	3/4" Copper Coupling.....	46.17	30.53
		For Silver Solder Instead Of 95/5 Solder, Add	6.88	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.59	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
		For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0492	EA	1" Copper Coupling.....	55.58	36.44
		For Silver Solder Instead Of 95/5 Solder, Add	8.24	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.51	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
		For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0493	EA	1-1/4" Copper Coupling.....	60.78	39.44
		For Silver Solder Instead Of 95/5 Solder, Add	8.95	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.99	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.86	
		For Work In Restricted Working Space, Add	17.72	
22 11 16 00-0494	EA	1-1/2" Copper Coupling.....	66.91	43.12
		For Silver Solder Instead Of 95/5 Solder, Add	9.81	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.58	
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.69	
		For Work In Restricted Working Space, Add	19.39	
22 11 16 00-0495	EA	2" Copper Coupling.....	76.23	47.92
		For Silver Solder Instead Of 95/5 Solder, Add	11.06	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.43	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.87	
		For Work In Restricted Working Space, Add	21.73	
22 11 16 00-0496	EA	2-1/2" Copper Coupling.....	77.54	46.57
		For Silver Solder Instead Of 95/5 Solder, Add	10.85	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.36	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.46	
		For Work In Restricted Working Space, Add	20.93	
22 11 16 00-0497	EA	3" Copper Coupling.....	94.70	56.41
		For Silver Solder Instead Of 95/5 Solder, Add	13.15	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.94	
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.62	
		For Work In Restricted Working Space, Add	25.23	
22 11 16 00-0498	EA	4" Copper Coupling.....	136.17	75.90
		For Silver Solder Instead Of 95/5 Solder, Add	18.09	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.45	
		For Brazed Fittings Instead Of 95/5 Solder, Add	16.92	
		For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0499	EA	5" Copper Coupling.....	202.53	138.46
		For Silver Solder Instead Of 95/5 Solder, Add	25.51	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.82	
		For Brazed Fittings Instead Of 95/5 Solder, Add	23.08	
		For Work In Restricted Working Space, Add	46.15	
22 11 16 00-0500	EA	6" Copper Coupling.....	306.10	150.46
		For Silver Solder Instead Of 95/5 Solder, Add	37.87	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.59	
		For Brazed Fittings Instead Of 95/5 Solder, Add	33.85	
		For Work In Restricted Working Space, Add	67.69	
22 11 16 00-0501	EA	8" Copper Coupling.....	560.30	199.48
		For Silver Solder Instead Of 95/5 Solder, Add	57.96	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.99	
		For Brazed Fittings Instead Of 95/5 Solder, Add	44.92	
		For Work In Restricted Working Space, Add	89.84	
22 11 16 00-0502		Reducing Copper Couplings (22 11 16 00-0414)		
22 11 16 00-0503	EA	3/8" Reducing Copper Coupling.....	22.77	14.82
		For Silver Solder Instead Of 95/5 Solder, Add	3.37	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.25	
		For Brazed Fittings Instead Of 95/5 Solder, Add	3.34	
		For Work In Restricted Working Space, Add	6.69	
22 11 16 00-0504	EA	1/2" Reducing Copper Coupling.....	32.26	21.17
		For Silver Solder Instead Of 95/5 Solder, Add	4.79	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.20	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.76	
		For Work In Restricted Working Space, Add	9.53	
22 11 16 00-0505	EA	3/4" Reducing Copper Coupling.....	42.10	27.53
		For Silver Solder Instead Of 95/5 Solder, Add	6.23	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.17	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.18	
		For Work In Restricted Working Space, Add	12.37	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0506	EA	1"	Reducing Copper Coupling	51.73	33.43
			For Silver Solder Instead Of 95/5 Solder, Add	7.60	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.09	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.52	
			For Work In Restricted Working Space, Add	15.05	
22 11 16 00-0507	EA	1-1/4"	Reducing Copper Coupling	59.02	37.89
			For Silver Solder Instead Of 95/5 Solder, Add	8.63	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.79	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.52	
			For Work In Restricted Working Space, Add	17.05	
22 11 16 00-0508	EA	1-1/2"	Reducing Copper Coupling	65.47	41.23
			For Silver Solder Instead Of 95/5 Solder, Add	9.46	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.37	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.28	
			For Work In Restricted Working Space, Add	18.55	
22 11 16 00-0509	EA	2"	Reducing Copper Coupling	74.15	45.68
			For Silver Solder Instead Of 95/5 Solder, Add	10.56	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.13	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.28	
			For Work In Restricted Working Space, Add	20.56	
22 11 16 00-0510	EA	2-1/2"	Reducing Copper Coupling	81.82	46.87
			For Silver Solder Instead Of 95/5 Solder, Add	11.12	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.60	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.54	
			For Work In Restricted Working Space, Add	21.08	
22 11 16 00-0511	EA	3"	Reducing Copper Coupling	95.32	54.36
			For Silver Solder Instead Of 95/5 Solder, Add	12.87	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.82	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.15	
			For Work In Restricted Working Space, Add	24.31	
22 11 16 00-0512	EA	4"	Reducing Copper Coupling	135.03	71.18
			For Silver Solder Instead Of 95/5 Solder, Add	17.42	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.08	
			For Brazed Fittings Instead Of 95/5 Solder, Add	16.00	
			For Work In Restricted Working Space, Add	32.00	
22 11 16 00-0513	EA	5"	Reducing Copper Coupling	259.65	99.18
			For Silver Solder Instead Of 95/5 Solder, Add	27.85	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.42	
			For Brazed Fittings Instead Of 95/5 Solder, Add	22.31	
			For Work In Restricted Working Space, Add	44.61	
22 11 16 00-0514	EA	6"	Reducing Copper Coupling	371.79	133.33
			For Silver Solder Instead Of 95/5 Solder, Add	38.59	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-28.59	
			For Brazed Fittings Instead Of 95/5 Solder, Add	30.00	
			For Work In Restricted Working Space, Add	60.00	
22 11 16 00-0515	EA	8"	Reducing Copper Coupling	655.47	194.28
			For Silver Solder Instead Of 95/5 Solder, Add	61.90	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-47.34	
			For Brazed Fittings Instead Of 95/5 Solder, Add	43.69	
			For Work In Restricted Working Space, Add	87.38	
22 11 16 00-0516	Male Copper Adapters (22 11 16 00-0414)				
22 11 16 00-0517	EA	1/4"	Male Copper Adapter	26.19	14.49
			For Silver Solder Instead Of 95/5 Solder, Add	3.54	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.42	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.34	
			For Work In Restricted Working Space, Add	6.69	
22 11 16 00-0518	EA	3/8"	Male Copper Adapter	28.68	17.83
			For Silver Solder Instead Of 95/5 Solder, Add	4.11	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.77	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
			For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0519	EA	1/2"	Male Copper Adapter	34.22	22.29
			For Silver Solder Instead Of 95/5 Solder, Add	5.05	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.38	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.01	
			For Work In Restricted Working Space, Add	10.03	
22 11 16 00-0520	EA	3/4"	Male Copper Adapter	42.56	27.86
			For Silver Solder Instead Of 95/5 Solder, Add	6.25	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.19	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.18	
			For Work In Restricted Working Space, Add	12.37	
22 11 16 00-0521	EA	1"	Male Copper Adapter	51.31	32.32
			For Silver Solder Instead Of 95/5 Solder, Add	7.36	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.96	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.19	
			For Work In Restricted Working Space, Add	14.38	
22 11 16 00-0522	EA	1-1/4"	Male Copper Adapter	60.65	36.77
			For Silver Solder Instead Of 95/5 Solder, Add	8.60	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.82	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.36	
			For Work In Restricted Working Space, Add	16.71	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0523 EA 1-1/2" Male Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	69.29 9.82 -6.64 9.53 19.05	42.35
22 11 16 00-0524 EA 2" Male Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	91.13 12.69 -8.62 12.20 24.41	54.05
22 11 16 00-0525 EA 2-1/2" Male Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	135.84 17.27 -12.03 15.71 31.43	70.21
22 11 16 00-0526 EA 3" Male Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	180.64 22.98 -16.01 20.92 41.84	93.59
22 11 16 00-0527 EA 4" Male Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	262.74 32.83 -22.98 29.54 59.08	131.28
22 11 16 00-0528 Female Copper Adapters (22 11 16 00-0414)		
22 11 16 00-0529 EA 1/4" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	24.78 3.47 -2.35 3.34 6.69	14.49
22 11 16 00-0530 EA 3/8" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	29.34 4.14 -2.80 4.01 8.02	17.83
22 11 16 00-0531 EA 1/2" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	34.69 5.08 -3.41 5.01 10.03	22.29
22 11 16 00-0532 EA 3/4" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	42.95 6.27 -4.21 6.18 12.37	27.86
22 11 16 00-0533 EA 1" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	51.86 7.39 -4.99 7.19 14.38	32.32
22 11 16 00-0534 EA 1-1/4" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	61.49 8.65 -5.86 8.36 16.71	36.77
22 11 16 00-0535 EA 1-1/2" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	72.55 9.98 -6.80 9.53 19.05	42.35
22 11 16 00-0536 EA 2" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	93.61 12.82 -8.75 12.20 24.41	54.05
22 11 16 00-0537 EA 2-1/2" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	140.28 16.66 -11.83 14.46 28.92	64.61
22 11 16 00-0538 EA 3" Female Copper Adapter For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	213.38 24.62 -17.64 20.92 41.84	93.59
22 11 16 00-0539 Wrot Copper, Solder Union (22 11 16 00-0414)		
22 11 16 00-0540 EA 1/4" Wrot Copper, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	32.26 4.29 -2.95 4.01 8.02	17.83



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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
22 11 16 00-0541	EA	3/8" Wrot Copper, Solder Union.....	38.01	21.51
		For Silver Solder Instead Of 95/5 Solder, Add	5.13	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.52	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.85	
		For Work In Restricted Working Space, Add	9.70	
22 11 16 00-0542	EA	1/2" Wrot Copper, Solder Union.....	43.64	26.74
		For Silver Solder Instead Of 95/5 Solder, Add	6.19	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.19	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.02	
		For Work In Restricted Working Space, Add	12.04	
22 11 16 00-0543	EA	3/4" Wrot Copper, Solder Union.....	50.01	30.53
		For Silver Solder Instead Of 95/5 Solder, Add	7.07	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.78	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
		For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0544	EA	1" Wrot Copper, Solder Union.....	62.03	36.44
		For Silver Solder Instead Of 95/5 Solder, Add	8.56	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.83	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
		For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0545	EA	1-1/4" Wrot Copper, Solder Union.....	70.94	40.12
		For Silver Solder Instead Of 95/5 Solder, Add	9.57	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.56	
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
		For Work In Restricted Working Space, Add	18.05	
22 11 16 00-0546	EA	1-1/2" Wrot Copper, Solder Union.....	82.04	44.57
		For Silver Solder Instead Of 95/5 Solder, Add	10.79	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.45	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.03	
		For Work In Restricted Working Space, Add	20.06	
22 11 16 00-0547	EA	2" Wrot Copper, Solder Union.....	106.10	53.48
		For Silver Solder Instead Of 95/5 Solder, Add	13.33	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.32	
		For Brazed Fittings Instead Of 95/5 Solder, Add	12.03	
		For Work In Restricted Working Space, Add	24.07	
22 11 16 00-0548	EA	2-1/2" Wrot Copper, Solder Union.....	158.75	58.87
		For Silver Solder Instead Of 95/5 Solder, Add	16.76	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.35	
		For Brazed Fittings Instead Of 95/5 Solder, Add	13.23	
		For Work In Restricted Working Space, Add	26.46	
22 11 16 00-0549	EA	3" Wrot Copper, Solder Union.....	307.70	83.49
		For Silver Solder Instead Of 95/5 Solder, Add	27.90	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.64	
		For Brazed Fittings Instead Of 95/5 Solder, Add	18.77	
		For Work In Restricted Working Space, Add	37.54	
22 11 16 00-0550		Cast Bronze, Solder Union (22 11 16 00-0414)		
22 11 16 00-0551	EA	1/4" Cast Bronze, Solder Union.....	34.30	17.83
		For Silver Solder Instead Of 95/5 Solder, Add	4.39	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.05	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
		For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0552	EA	3/8" Cast Bronze, Solder Union.....	39.93	21.51
		For Silver Solder Instead Of 95/5 Solder, Add	5.23	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.61	
		For Brazed Fittings Instead Of 95/5 Solder, Add	4.85	
		For Work In Restricted Working Space, Add	9.70	
22 11 16 00-0553	EA	1/2" Cast Bronze, Solder Union.....	44.17	26.74
		For Silver Solder Instead Of 95/5 Solder, Add	6.22	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.21	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.02	
		For Work In Restricted Working Space, Add	12.04	
22 11 16 00-0554	EA	3/4" Cast Bronze, Solder Union.....	50.76	30.53
		For Silver Solder Instead Of 95/5 Solder, Add	7.11	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.82	
		For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
		For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0555	EA	1" Cast Bronze, Solder Union.....	63.35	36.44
		For Silver Solder Instead Of 95/5 Solder, Add	8.63	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.90	
		For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
		For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0556	EA	1-1/4" Cast Bronze, Solder Union.....	74.53	40.12
		For Silver Solder Instead Of 95/5 Solder, Add	9.74	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.74	
		For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
		For Work In Restricted Working Space, Add	18.05	
22 11 16 00-0557	EA	1-1/2" Cast Bronze, Solder Union.....	85.78	44.57
		For Silver Solder Instead Of 95/5 Solder, Add	10.98	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.63	
		For Brazed Fittings Instead Of 95/5 Solder, Add	10.03	
		For Work In Restricted Working Space, Add	20.06	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0558	EA		2" Cast Bronze, Solder Union	112.48	53.48
			For Silver Solder Instead Of 95/5 Solder, Add	13.65	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.64	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.03	
			For Work In Restricted Working Space, Add	24.07	
22 11 16 00-0559	EA		2-1/2" Cast Bronze, Solder Union	158.75	58.87
			For Silver Solder Instead Of 95/5 Solder, Add	16.76	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.35	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.23	
			For Work In Restricted Working Space, Add	26.46	
22 11 16 00-0560	EA		3" Cast Bronze, Solder Union	307.70	83.49
			For Silver Solder Instead Of 95/5 Solder, Add	27.90	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.64	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.77	
			For Work In Restricted Working Space, Add	37.54	
22 11 16 00-0561 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0414)					
22 11 16 00-0562	EA		1/4" Cast Bronze, Solder X Female Threaded Union.....	37.05	17.83
			For Silver Solder Instead Of 95/5 Solder, Add	4.53	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.19	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
			For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0563	EA		3/8" Cast Bronze, Solder X Female Threaded Union.....	42.99	21.51
			For Silver Solder Instead Of 95/5 Solder, Add	5.38	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.77	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.85	
			For Work In Restricted Working Space, Add	9.70	
22 11 16 00-0564	EA		1/2" Cast Bronze, Solder X Female Threaded Union.....	48.59	26.74
			For Silver Solder Instead Of 95/5 Solder, Add	6.44	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.44	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.02	
			For Work In Restricted Working Space, Add	12.04	
22 11 16 00-0565	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	57.23	30.53
			For Silver Solder Instead Of 95/5 Solder, Add	7.43	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.15	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
			For Work In Restricted Working Space, Add	13.70	
22 11 16 00-0566	EA		1" Cast Bronze, Solder X Female Threaded Union.....	78.62	36.44
			For Silver Solder Instead Of 95/5 Solder, Add	9.39	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
			For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0567	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union.....	104.95	40.12
			For Silver Solder Instead Of 95/5 Solder, Add	11.27	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.26	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
			For Work In Restricted Working Space, Add	18.05	
22 11 16 00-0568	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union.....	123.58	44.57
			For Silver Solder Instead Of 95/5 Solder, Add	12.87	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.03	
			For Work In Restricted Working Space, Add	20.06	
22 11 16 00-0569	EA		2" Cast Bronze, Solder X Female Threaded Union.....	176.24	53.48
			For Silver Solder Instead Of 95/5 Solder, Add	16.84	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.82	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.03	
			For Work In Restricted Working Space, Add	24.07	
22 11 16 00-0570	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union.....	270.21	58.87
			For Silver Solder Instead Of 95/5 Solder, Add	22.33	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.92	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.23	
			For Work In Restricted Working Space, Add	26.46	
22 11 16 00-0571 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0414)					
22 11 16 00-0572	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	34.59	17.83
			For Silver Solder Instead Of 95/5 Solder, Add	4.40	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.07	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.01	
			For Work In Restricted Working Space, Add	8.02	
22 11 16 00-0573	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	41.49	21.51
			For Silver Solder Instead Of 95/5 Solder, Add	5.31	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.69	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.85	
			For Work In Restricted Working Space, Add	9.70	
22 11 16 00-0574	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	46.81	26.74
			For Silver Solder Instead Of 95/5 Solder, Add	6.35	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.35	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.02	
			For Work In Restricted Working Space, Add	12.04	
22 11 16 00-0575	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	55.72	30.53
			For Silver Solder Instead Of 95/5 Solder, Add	7.35	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.07	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.85	
			For Work In Restricted Working Space, Add	13.70	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0576	EA		1" Cast Bronze, Solder X Male Threaded Union.....	79.32	36.44
			For Silver Solder Instead Of 95/5 Solder, Add	9.43	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.70	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.19	
			For Work In Restricted Working Space, Add	16.38	
22 11 16 00-0577	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	90.84	40.12
			For Silver Solder Instead Of 95/5 Solder, Add	10.56	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.55	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.03	
			For Work In Restricted Working Space, Add	18.05	
22 11 16 00-0578	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	99.06	44.57
			For Silver Solder Instead Of 95/5 Solder, Add	11.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.30	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.03	
			For Work In Restricted Working Space, Add	20.06	
22 11 16 00-0579	EA		2" Cast Bronze, Solder X Male Threaded Union.....	129.70	53.48
			For Silver Solder Instead Of 95/5 Solder, Add	14.51	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.50	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.03	
			For Work In Restricted Working Space, Add	24.07	
22 11 16 00-0580	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	233.16	58.87
			For Silver Solder Instead Of 95/5 Solder, Add	20.48	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.07	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.23	
			For Work In Restricted Working Space, Add	26.46	
22 11 16 00-0581			Copper Caps (22 11 16 00-0414)		
22 11 16 00-0582	EA		1/4" Copper Cap	4.52	2.82
			For Silver Solder Instead Of 95/5 Solder, Add	0.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.44	
			For Brazed Fittings Instead Of 95/5 Solder, Add	0.63	
			For Work In Restricted Working Space, Add	1.25	
22 11 16 00-0583	EA		3/8" Copper Cap	5.00	2.97
			For Silver Solder Instead Of 95/5 Solder, Add	0.70	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.47	
			For Brazed Fittings Instead Of 95/5 Solder, Add	0.67	
			For Work In Restricted Working Space, Add	1.34	
22 11 16 00-0584	EA		1/2" Copper Cap	5.00	3.20
			For Silver Solder Instead Of 95/5 Solder, Add	0.72	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.49	
			For Brazed Fittings Instead Of 95/5 Solder, Add	0.71	
			For Work In Restricted Working Space, Add	1.42	
22 11 16 00-0585	EA		3/4" Copper Cap	6.44	4.01
			For Silver Solder Instead Of 95/5 Solder, Add	0.92	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.62	
			For Brazed Fittings Instead Of 95/5 Solder, Add	0.89	
			For Work In Restricted Working Space, Add	1.78	
22 11 16 00-0586	EA		1" Copper Cap	8.73	5.07
			For Silver Solder Instead Of 95/5 Solder, Add	1.19	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.81	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.13	
			For Work In Restricted Working Space, Add	2.26	
22 11 16 00-0587	EA		1-1/4" Copper Cap	11.93	6.95
			For Silver Solder Instead Of 95/5 Solder, Add	1.63	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.11	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.55	
			For Work In Restricted Working Space, Add	3.09	
22 11 16 00-0588	EA		1-1/2" Copper Cap	14.47	8.18
			For Silver Solder Instead Of 95/5 Solder, Add	1.94	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.33	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.82	
			For Work In Restricted Working Space, Add	3.64	
22 11 16 00-0589	EA		2" Copper Cap	31.32	18.21
			For Silver Solder Instead Of 95/5 Solder, Add	4.26	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.05	
			For Work In Restricted Working Space, Add	8.09	
22 11 16 00-0590	EA		2-1/2" Copper Cap	54.05	27.70
			For Silver Solder Instead Of 95/5 Solder, Add	6.81	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.75	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.15	
			For Work In Restricted Working Space, Add	12.31	
22 11 16 00-0591	EA		3" Copper Cap	72.49	36.35
			For Silver Solder Instead Of 95/5 Solder, Add	9.01	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.32	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.08	
			For Work In Restricted Working Space, Add	16.15	
22 11 16 00-0592	EA		4" Copper Cap	99.30	43.27
			For Silver Solder Instead Of 95/5 Solder, Add	11.38	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.17	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.62	
			For Work In Restricted Working Space, Add	19.23	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0593	EA	5"	Cast Bronze Cap..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	336.43 25.72 -21.27 13.35 26.71	59.38
22 11 16 00-0594	EA	6"	Cast Bronze Cap..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	606.86 41.74 -36.04 17.09 34.19	76.93
22 11 16 00-0595	EA	8"	Cast Bronze Cap..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	789.68 55.89 -47.69 24.62 49.23	110.76
22 11 16 00-0596 Copper Crosses (22 11 16 00-0414)					
22 11 16 00-0597	EA	1/2"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	72.02 10.37 -6.99 10.15 20.31	45.13
22 11 16 00-0598	EA	3/4"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	92.52 13.04 -8.83 12.62 25.23	56.11
22 11 16 00-0599	EA	1"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	114.81 15.79 -10.77 15.08 30.15	66.97
22 11 16 00-0600	EA	1-1/4"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	129.26 17.33 -11.90 16.31 32.61	72.51
22 11 16 00-0601	EA	1-1/2"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	148.28 19.31 -13.36 17.85 35.69	79.28
22 11 16 00-0602	EA	2"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	188.68 22.77 -16.10 20.00 40.00	88.92
22 11 16 00-0603	EA	2-1/2"	Copper Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	275.27 28.53 -21.15 22.15 44.31	98.46
22 11 16 00-0604 Cast Bronze Crosses (22 11 16 00-0414)					
22 11 16 00-0605	EA	3/8"	Cast Bronze Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	55.01 7.67 -5.21 7.38 14.77	32.82
22 11 16 00-0606	EA	1/2"	Cast Bronze Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	72.89 10.41 -7.03 10.15 20.31	45.13
22 11 16 00-0607	EA	3/4"	Cast Bronze Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	94.20 13.12 -8.92 12.62 25.23	56.11
22 11 16 00-0608	EA	1"	Cast Bronze Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	117.67 15.93 -10.91 15.08 30.15	66.97
22 11 16 00-0609	EA	1-1/4"	Cast Bronze Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	133.37 17.54 -12.10 16.31 32.61	72.51
22 11 16 00-0610	EA	1-1/2"	Cast Bronze Cross..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	154.13 19.60 -13.66 17.85 35.69	79.28



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0611 EA 2" Cast Bronze Cross For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	199.74 23.32 -16.65 20.00 40.00	88.92
22 11 16 00-0612 EA 2-1/2" Cast Bronze Cross For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	300.78 29.81 -22.42 22.15 44.31	98.46
22 11 16 00-0613 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0345)		
22 11 16 00-0614 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	11.14	
22 11 16 00-0615 EA 3/4", Cut And Prepare Existing In Place Copper Pipe.....	12.04	
22 11 16 00-0616 EA 1", Cut And Prepare Existing In Place Copper Pipe.....	13.54	
22 11 16 00-0617 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	14.21	
22 11 16 00-0618 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	15.04	
22 11 16 00-0619 EA 2", Cut And Prepare Existing In Place Copper Pipe.....	16.55	
22 11 16 00-0620 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	17.83	
22 11 16 00-0621 EA 3", Cut And Prepare Existing In Place Copper Pipe.....	21.06	
22 11 16 00-0622 EA 4", Cut And Prepare Existing In Place Copper Pipe.....	28.42	
22 11 16 00-0623 EA 6", Cut And Prepare Existing In Place Copper Pipe.....	40.61	
22 11 16 00-0624 EA 8", Cut And Prepare Existing In Place Copper Pipe.....	54.16	
22 11 16 00-0625 Sweat Brass Companion Flanges (22 11 16 00-0345)		
22 11 16 00-0626 EA 1" Sweat Brass Companion Flange.....	37.60	17.13
22 11 16 00-0627 EA 1-1/4" Sweat Brass Companion Flange.....	41.19	18.87
22 11 16 00-0628 EA 1-1/2" Sweat Brass Companion Flange.....	52.40	20.51
22 11 16 00-0629 EA 2" Sweat Brass Companion Flange.....	65.36	22.77
22 11 16 00-0630 EA 2-1/2" Sweat Brass Companion Flange.....	81.18	27.38
22 11 16 00-0631 EA 3" Sweat Brass Companion Flange.....	95.39	35.90
22 11 16 00-0632 EA 4" Sweat Brass Companion Flange.....	122.09	42.77
22 11 16 00-0633 EA 5" Sweat Brass Companion Flange.....	226.71	49.07
22 11 16 00-0634 EA 6" Sweat Brass Companion Flange.....	284.49	71.31
22 11 16 00-0635 EA 8" Copper Companion Flange.....	555.13	101.71
22 11 16 00-0636 Brass Compression Fittings (22 11 16 00-0345)		
22 11 16 00-0637 Brass Compression Unions (22 11 16 00-0636)		
22 11 16 00-0638 EA 1/4" Brass Compression Union.....	18.75	12.04
22 11 16 00-0639 EA 3/8" Brass Compression Union.....	18.95	12.04
22 11 16 00-0640 EA 1/2" Brass Compression Union.....	19.56	12.04
22 11 16 00-0641 EA 5/8" Brass Compression Union.....	19.85	12.04
22 11 16 00-0642 EA 3/4" Brass Compression Union.....	22.25	12.04
22 11 16 00-0643 EA 3/8" x 1/4" Brass Compression Union.....	19.09	12.04
22 11 16 00-0644 EA 1/2" x 3/8" Brass Compression Union.....	19.61	12.04
22 11 16 00-0645 EA 5/8" x 3/8" Brass Compression Union.....	19.97	12.04
22 11 16 00-0646 EA 5/8" x 1/2" Brass Compression Union.....	20.55	12.04
22 11 16 00-0647 Brass Compression Union Elbows (22 11 16 00-0636)		
22 11 16 00-0648 EA 1/4" Brass Compression Union Elbow.....	19.56	12.04
22 11 16 00-0649 EA 3/8" Brass Compression Union Elbow.....	19.89	12.04
22 11 16 00-0650 EA 1/2" Brass Compression Union Elbow.....	20.61	12.04
22 11 16 00-0651 EA 5/8" Brass Compression Union Elbow.....	21.73	12.04
22 11 16 00-0652 EA 3/4" Brass Compression Union Elbow.....	26.09	12.04
22 11 16 00-0653 EA 3/8" x 1/4" Brass Compression Union Elbow.....	19.89	12.04
22 11 16 00-0654 EA 1/2" x 3/8" Brass Compression Union Elbow.....	20.61	12.04
22 11 16 00-0655 EA 5/8" x 3/8" Brass Compression Union Elbow.....	20.81	12.04
22 11 16 00-0656 EA 5/8" x 1/2" Brass Compression Union Elbow.....	24.09	12.04
22 11 16 00-0657 Brass Compression Union Tees (22 11 16 00-0636)		
22 11 16 00-0658 EA 1/4" Brass Compression Union Tee.....	19.81	12.04
22 11 16 00-0659 EA 3/8" Brass Compression Union Tee.....	20.49	12.04
22 11 16 00-0660 EA 1/2" Brass Compression Union Tee.....	21.21	12.04
22 11 16 00-0661 EA 5/8" Brass Compression Union Tee.....	23.49	12.04
22 11 16 00-0662 EA 3/4" Brass Compression Union Tee.....	31.37	12.04
22 11 16 00-0663 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	20.97	12.04
22 11 16 00-0664 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	24.67	12.04
22 11 16 00-0665 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	24.31	12.04
22 11 16 00-0666 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	24.73	12.04
22 11 16 00-0667 Brass Compression Male Connectors (22 11 16 00-0636)		
22 11 16 00-0668 EA 1/4" Brass Compression Male Connector.....	18.61	12.04
22 11 16 00-0669 EA 3/8" Brass Compression Male Connector.....	18.87	12.04
22 11 16 00-0670 EA 1/2" Brass Compression Male Connector.....	19.33	12.04

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0671 EA 5/8" Brass Compression Male Connector	20.01	12.04
22 11 16 00-0672 EA 3/4" Brass Compression Male Connector	20.98	11.92
22 11 16 00-0673 Brass Compression Female Connectors (22 11 16 00-0636)		
22 11 16 00-0674 EA 1/4" Brass Compression Female Connector	18.90	12.04
22 11 16 00-0675 EA 3/8" Brass Compression Female Connector	19.24	12.04
22 11 16 00-0676 EA 1/2" Brass Compression Female Connector	19.82	12.04
22 11 16 00-0677 EA 5/8" Brass Compression Female Connector	20.13	12.04
22 11 16 00-0678 EA 3/4" Brass Compression Female Connector	23.80	11.81
22 11 16 00-0679 Dielectric Fittings (22 11 16 00-0345)		
22 11 16 00-0680 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0679)		
22 11 16 00-0681 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	45.89	26.74
22 11 16 00-0682 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	51.45	30.53
22 11 16 00-0683 EA 1" Copper x Female Iron Pipe Thread Dielectric Union.....	60.30	33.54
22 11 16 00-0684 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	71.85	36.92
22 11 16 00-0685 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	85.67	41.03
22 11 16 00-0686 EA 2" Copper x Female Iron Pipe Thread Dielectric Union.....	107.87	49.23
22 11 16 00-0687 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0679)		
22 11 16 00-0688 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	49.54	26.74
22 11 16 00-0689 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	57.46	30.53
22 11 16 00-0690 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	68.22	33.54
22 11 16 00-0691 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	82.36	36.92
22 11 16 00-0692 EA 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	98.67	41.03
22 11 16 00-0693 EA 2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	123.12	49.23
22 11 16 00-0694 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0679)		
22 11 16 00-0695 EA 1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	47.23	26.74
22 11 16 00-0696 EA 3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	53.65	30.53
22 11 16 00-0697 EA 1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	60.88	33.54
22 11 16 00-0698 EA 1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	69.82	36.92
22 11 16 00-0699 EA 1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	83.66	41.03
22 11 16 00-0700 EA 2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	106.25	49.23
22 11 16 00-0701 Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0679)		
22 11 16 00-0702 EA 2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	264.81	126.57
22 11 16 00-0703 EA 3" Copper x Female Iron Pipe Thread Dielectric Flange.....	331.82	159.38
22 11 16 00-0704 EA 4" Copper x Female Iron Pipe Thread Dielectric Flange.....	465.24	216.92
22 11 16 00-0705 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0679)		
22 11 16 00-0706 EA 2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	266.30	126.57
22 11 16 00-0707 EA 3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	343.78	159.38
22 11 16 00-0708 EA 4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	603.20	216.92
22 11 16 00-0709 Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0710 EA 1/4" x 1/4" Brass Push-Fit Coupling	20.79	11.14
Note: (Sharkbite)		
22 11 16 00-0711 EA 3/8" x 3/8" Brass Push-Fit Coupling	24.54	11.89
Note: (Sharkbite)		
22 11 16 00-0712 EA 1/2" x 1/2" Brass Push-Fit Coupling	26.13	13.38
Note: (Sharkbite)		
22 11 16 00-0713 EA 5/8" x 5/8" Brass Push-Fit Coupling	29.34	14.26
Note: (Sharkbite)		
22 11 16 00-0714 EA 3/4" x 3/4" Brass Push-Fit Coupling	30.35	15.24
Note: (Sharkbite)		
22 11 16 00-0715 EA 1" x 1" Brass Push-Fit Coupling	40.57	18.20
Note: (Sharkbite)		
22 11 16 00-0716 EA 1/2" x 3/8" Brass Push-Fit Reducing Coupling.....	25.33	12.62
Note: (Sharkbite)		
22 11 16 00-0717 EA 3/4" x 5/8" Brass Push-Fit Reducing Coupling.....	28.80	13.82
Note: (Sharkbite)		
22 11 16 00-0718 EA 1" x 3/4" Brass Push-Fit Reducing Coupling.....	40.38	16.71
Note: (Sharkbite)		
22 11 16 00-0719 EA 1/4" x 1/4" Brass Push-Fit Elbow	21.38	11.14
Note: (Sharkbite)		
22 11 16 00-0720 EA 3/8" x 3/8" Brass Push-Fit Elbow	27.06	11.89
Note: (Sharkbite)		
22 11 16 00-0721 EA 1/2" x 1/2" Brass Push-Fit Elbow	26.45	13.38
Note: (Sharkbite)		
22 11 16 00-0722 EA 5/8" x 5/8" Brass Push-Fit Elbow	30.80	14.26
Note: (Sharkbite)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0723	EA	3/4" x 3/4" Brass Push-Fit Elbow Note: (Sharkbite)	29.93	15.24
22 11 16 00-0724	EA	1" x 1" Brass Push-Fit Elbow Note: (Sharkbite)	40.89	18.20
22 11 16 00-0725	EA	1/2" x 3/8" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	25.06	12.62
22 11 16 00-0726	EA	3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	27.76	13.82
22 11 16 00-0727	EA	1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	47.57	16.71
22 11 16 00-0728	EA	1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	32.32	16.71
22 11 16 00-0729	EA	3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	38.75	17.83
22 11 16 00-0730	EA	1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	37.93	20.06
22 11 16 00-0731	EA	5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	45.57	21.40
22 11 16 00-0732	EA	3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	43.88	22.84
22 11 16 00-0733	EA	1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	57.42	27.30
22 11 16 00-0734	EA	1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	40.24	18.94
22 11 16 00-0735	EA	1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	40.63	19.32
22 11 16 00-0736	EA	3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	42.27	21.92
22 11 16 00-0737	EA	1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.26	25.82
22 11 16 00-0738	EA	1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	24.10	12.26
22 11 16 00-0739	EA	3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	24.15	12.62
22 11 16 00-0740	EA	1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	24.45	13.38
22 11 16 00-0741	EA	3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	27.94	15.24
22 11 16 00-0742	EA	1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	37.18	18.20
22 11 16 00-0743	EA	1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	22.09	12.26
22 11 16 00-0744	EA	3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	24.15	12.62
22 11 16 00-0745	EA	1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	24.50	13.38
22 11 16 00-0746	EA	3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	27.76	15.24
22 11 16 00-0747	EA	5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	28.99	14.74
22 11 16 00-0748	EA	1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	34.15	16.71
22 11 16 00-0749	EA	1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	37.56	18.20
22 11 16 00-0750	EA	1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	31.44	13.38
22 11 16 00-0751	EA	3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	36.48	15.24
22 11 16 00-0752	EA	1" Brass Push-Fit Ball Valve Note: (Sharkbite)	46.95	18.20
22 11 16 00-0753	EA	1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	33.06	13.38
22 11 16 00-0754	EA	3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	39.22	15.24
22 11 16 00-0755	EA	1" Brass Push-Fit Check Valve..... Note: (Sharkbite)	61.19	18.20
22 11 16 00-0756		Copper Pipe Assemblies (22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0757	LF	1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	20.59	3.12
		<i>For Type K Tubing Instead Of Type L, Add</i>	1.25	
		<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.08	
		<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.77	
		<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.90	
		<i>For Work In Restricted Working Space, Add</i>	5.23	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0758	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add	23.51 1.44 -1.24 3.15 -2.16 5.93	4.01
22 11 16 00-0759	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add	25.43 1.65 -1.40 3.34 -2.31 6.21	4.79
22 11 16 00-0760	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	28.11 2.01 -1.65 3.56 -2.48 6.45 -0.66	5.57
22 11 16 00-0761	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	31.46 2.40 -1.94 3.87 -2.72 6.88 -0.85	6.35
22 11 16 00-0762	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	42.38 3.84 -2.97 4.76 -3.44 7.92 -1.60	7.91
22 11 16 00-0763	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	50.46 5.00 -3.79 5.35 -3.94 8.49 -2.22	9.54
22 11 16 00-0764	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	58.73 6.12 -4.60 6.00 -4.47 9.20 -2.81	11.08
22 11 16 00-0765	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	84.69 9.44 -6.99 8.20 -6.22 11.89 -4.51	14.67
22 11 16 00-0766	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	176.06 23.87 -17.06 13.89 -11.35 15.26 -12.52	18.26



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22 11 16 00-0767	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	210.08 27.95 -20.04 16.97 -13.73 19.38 -14.55	22.05
22 11 16 00-0768	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	384.09 56.19 -39.67 27.23 -23.22 24.09 -30.38	26.36
22 11 16 00-0769			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0770			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0769)		
22 11 16 00-0771			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0770)		
22 11 16 00-0772	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	5.20 1.23	1.64
22 11 16 00-0773	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	5.81 1.29	1.72
22 11 16 00-0774	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	6.85 1.39	1.86
22 11 16 00-0775	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	8.13 1.52	2.02
22 11 16 00-0776	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	9.31 1.68	2.23
22 11 16 00-0777	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	11.37 1.87	2.50
22 11 16 00-0778	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	14.96 2.13	2.85
22 11 16 00-0779	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	18.89 2.52	3.37
22 11 16 00-0780	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	25.71 3.10	4.13
22 11 16 00-0781	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	42.90 3.94	5.25
22 11 16 00-0782	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe For Work In Restricted Working Space, Add	61.13 5.17	6.90
22 11 16 00-0783			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0770)		
22 11 16 00-0784	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	21.21 5.84	7.79
22 11 16 00-0785	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	27.30 7.39	9.84
22 11 16 00-0786	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	35.11 9.26	12.30
22 11 16 00-0787	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	46.73 11.57	15.38
22 11 16 00-0788	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	51.89 12.80	17.03
22 11 16 00-0789	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	60.03 14.28	17.03
22 11 16 00-0790	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	86.55 16.25	21.64
22 11 16 00-0791	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	99.20 19.20	25.65
22 11 16 00-0792	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	137.47 23.63	31.49
22 11 16 00-0793	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	173.68 30.03	40.00
22 11 16 00-0794	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow For Work In Restricted Working Space, Add	311.36 39.38	52.52
22 11 16 00-0795			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0770)		
22 11 16 00-0796	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	22.07 5.84	7.79
22 11 16 00-0797	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	28.34 7.39	9.84
22 11 16 00-0798	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow For Work In Restricted Working Space, Add	36.79 9.26	12.30

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22 11 16 00-0799 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	48.94 11.57	15.38
22 11 16 00-0800 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.57 12.80	17.03
22 11 16 00-0801 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	60.94 14.28	19.08
22 11 16 00-0802 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	87.13 16.25	21.64
22 11 16 00-0803 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	99.12 19.20	25.65
22 11 16 00-0804 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	126.95 23.63	31.49
22 11 16 00-0805 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	193.40 30.03	40.00
22 11 16 00-0806 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	325.33 39.38	52.52
22 11 16 00-0807 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0770)		
22 11 16 00-0808 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	32.37 8.77	11.69
22 11 16 00-0809 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	41.93 11.08	14.77
22 11 16 00-0810 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	52.51 13.91	18.57
22 11 16 00-0811 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	70.83 17.35	23.18
22 11 16 00-0812 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	78.88 19.20	25.65
22 11 16 00-0813 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	93.58 21.42	28.51
22 11 16 00-0814 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	117.69 24.37	32.51
22 11 16 00-0815 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	135.67 28.80	38.36
22 11 16 00-0816 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	165.01 35.45	47.28
22 11 16 00-0817 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	241.72 45.05	60.10
22 11 16 00-0818 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	459.08 59.08	78.77
22 11 16 00-0819 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0770)		
22 11 16 00-0820 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	41.68 11.69	15.59
22 11 16 00-0821 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	53.54 14.77	19.69
22 11 16 00-0822 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	67.06 18.53	24.72
22 11 16 00-0823 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	88.32 23.14	30.87
22 11 16 00-0824 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	98.15 25.60	34.15
22 11 16 00-0825 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	114.30 28.55	38.05
22 11 16 00-0826 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	139.71 32.49	43.28
22 11 16 00-0827 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	162.16 38.40	51.18
22 11 16 00-0828 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	197.90 47.26	62.97
22 11 16 00-0829 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	279.07 60.06	80.10
22 11 16 00-0830 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	488.37 78.77	105.02
22 11 16 00-0831 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0770)		
22 11 16 00-0832 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	19.09 5.42	7.18
22 11 16 00-0833 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	26.32 7.29	9.74
22 11 16 00-0834 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	41.00 9.54	12.72
22 11 16 00-0835 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	46.04 10.55	14.05
22 11 16 00-0836 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	53.54 11.78	15.69
22 11 16 00-0837 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	58.98 13.42	17.84



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22 11 16 00-0838	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	71.08	21.13
			For Work In Restricted Working Space, Add	15.85	
22 11 16 00-0839	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	94.28	25.95
			For Work In Restricted Working Space, Add	19.51	
22 11 16 00-0840	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	144.89	33.02
			For Work In Restricted Working Space, Add	24.77	
22 11 16 00-0841	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	295.82	43.28
			For Work In Restricted Working Space, Add	32.49	
22 11 16 00-0842 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts (22 11 16 00-0770)					
22 11 16 00-0843	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	19.58	5.13
			For Work In Restricted Working Space, Add	3.85	
22 11 16 00-0844	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	25.34	7.18
			For Work In Restricted Working Space, Add	5.42	
22 11 16 00-0845	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	32.12	9.74
			For Work In Restricted Working Space, Add	7.29	
22 11 16 00-0846	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	40.50	12.72
			For Work In Restricted Working Space, Add	9.54	
22 11 16 00-0847	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	46.78	14.05
			For Work In Restricted Working Space, Add	10.55	
22 11 16 00-0848	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	57.23	15.69
			For Work In Restricted Working Space, Add	11.78	
22 11 16 00-0849	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	83.08	17.84
			For Work In Restricted Working Space, Add	13.42	
22 11 16 00-0850	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	153.02	21.13
			For Work In Restricted Working Space, Add	15.85	
22 11 16 00-0851	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert	222.94	25.95
			For Work In Restricted Working Space, Add	19.51	
22 11 16 00-0852 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0770)					
22 11 16 00-0853	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	15.41	5.13
			For Work In Restricted Working Space, Add	3.85	
22 11 16 00-0854	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	21.56	7.18
			For Work In Restricted Working Space, Add	5.42	
22 11 16 00-0855	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	30.20	9.74
			For Work In Restricted Working Space, Add	7.29	
22 11 16 00-0856	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	40.50	12.72
			For Work In Restricted Working Space, Add	9.54	
22 11 16 00-0857	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	46.95	14.05
			For Work In Restricted Working Space, Add	10.55	
22 11 16 00-0858	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	55.19	15.69
			For Work In Restricted Working Space, Add	11.78	
22 11 16 00-0859	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	74.84	17.84
			For Work In Restricted Working Space, Add	13.42	
22 11 16 00-0860	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	89.24	21.13
			For Work In Restricted Working Space, Add	15.85	
22 11 16 00-0861	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	126.60	25.95
			For Work In Restricted Working Space, Add	19.51	
22 11 16 00-0862 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0770)					
22 11 16 00-0863	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	16.39	5.13
			For Work In Restricted Working Space, Add	3.85	
22 11 16 00-0864	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	21.87	7.18
			For Work In Restricted Working Space, Add	5.42	
22 11 16 00-0865	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	30.29	9.74
			For Work In Restricted Working Space, Add	7.29	
22 11 16 00-0866	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	40.79	12.72
			For Work In Restricted Working Space, Add	9.54	
22 11 16 00-0867	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	45.63	14.05
			For Work In Restricted Working Space, Add	10.55	
22 11 16 00-0868	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	54.11	15.69
			For Work In Restricted Working Space, Add	11.78	
22 11 16 00-0869	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	75.46	17.84
			For Work In Restricted Working Space, Add	13.42	
22 11 16 00-0870	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	100.12	21.13
			For Work In Restricted Working Space, Add	15.85	
22 11 16 00-0871	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	145.09	25.95
			For Work In Restricted Working Space, Add	19.51	
22 11 16 00-0872 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0770)					

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22 11 16 00-0873	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	13.89 3.51	4.71
22 11 16 00-0874	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	19.52 4.92	6.56
22 11 16 00-0875	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	26.24 6.62	8.82
22 11 16 00-0876	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	35.17 8.68	11.59
22 11 16 00-0877	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	39.88 9.60	12.82
22 11 16 00-0878	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	44.84 10.71	14.26
22 11 16 00-0879	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	62.56 12.18	16.21
22 11 16 00-0880	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	70.16 14.40	19.18
22 11 16 00-0881	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	88.11 17.72	23.59
22 11 16 00-0882	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	132.37 22.52	30.05
22 11 16 00-0883	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	214.54 29.54	39.39
22 11 16 00-0884 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0770)				
22 11 16 00-0885	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	23.44 4.22	5.64
22 11 16 00-0886	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	29.54 5.91	7.90
22 11 16 00-0887	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	36.62 7.94	10.57
22 11 16 00-0888	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	58.55 10.40	13.84
22 11 16 00-0889	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	62.68 11.51	15.38
22 11 16 00-0890	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	83.23 12.86	17.13
22 11 16 00-0891	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	132.39 14.62	19.48
22 11 16 00-0892	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	184.08 17.29	23.08
22 11 16 00-0893	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	285.81 21.26	28.31
22 11 16 00-0894	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	380.34 27.02	36.00
22 11 16 00-0895	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	472.75 35.45	47.28
22 11 16 00-0896 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0770)				
22 11 16 00-0897	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	7.38 1.17	1.54
22 11 16 00-0898	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	13.14 2.46	3.28
22 11 16 00-0899	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	21.95 3.97	5.34
22 11 16 00-0900	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	24.03 4.34	5.74
22 11 16 00-0901	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	25.75 4.80	6.36
22 11 16 00-0902	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	33.54 5.35	7.18
22 11 16 00-0903	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	48.58 6.09	8.10
22 11 16 00-0904	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	52.92 7.20	9.64
22 11 16 00-0905	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	78.32 8.86	11.79
22 11 16 00-0906	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	158.92 11.26	14.98
22 11 16 00-0907	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap..... <i>For Work In Restricted Working Space, Add</i>	205.09 14.77	19.69
22 11 16 00-0908 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0770)				
22 11 16 00-0909	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	17.72 2.80	3.69
22 11 16 00-0910	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	22.12 3.94	5.23
22 11 16 00-0911	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	27.65 5.29	7.08
22 11 16 00-0912	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	33.48 6.95	9.23



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22 11 16 00-0913	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges	36.19	10.25
		For Work In Restricted Working Space, Add	7.70	
22 11 16 00-0914	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	42.53	11.38
		For Work In Restricted Working Space, Add	8.55	
22 11 16 00-0915	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges	54.39	13.03
		For Work In Restricted Working Space, Add	9.75	
22 11 16 00-0916	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	62.22	15.38
		For Work In Restricted Working Space, Add	11.51	
22 11 16 00-0917	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	77.52	18.87
		For Work In Restricted Working Space, Add	14.18	
22 11 16 00-0918	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	107.64	24.00
		For Work In Restricted Working Space, Add	18.03	
22 11 16 00-0919	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges.....	186.01	31.49
		For Work In Restricted Working Space, Add	23.63	
22 11 16 00-0920		Cross-Linked Polyethylene Tubing, ASTM F877 (22 11 16) Note: Aboveground, domestic water usage.		
22 11 16 00-0921		Cross-Linked Polyethylene Tubing (22 11 16 00-0920)		
22 11 16 00-0922	LF	3/8" Cross-Linked Polyethylene Tubing	3.58	
		For Work In Restricted Working Space, Add	0.97	
22 11 16 00-0923	LF	1/2" Cross-Linked Polyethylene Tubing	3.88	
		For Work In Restricted Working Space, Add	1.05	
22 11 16 00-0924	LF	3/4" Cross-Linked Polyethylene Tubing	4.48	
		For Work In Restricted Working Space, Add	1.13	
22 11 16 00-0925	LF	1" Cross-Linked Polyethylene Tubing	5.20	
		For Work In Restricted Working Space, Add	1.19	
22 11 16 00-0926		Cross-Linked Polyethylene Forged Brass PEX Fittings (22 11 16 00-0920) Note: Aboveground, domestic water usage.		
22 11 16 00-0927		Male Adapters (22 11 16 00-0926)		
22 11 16 00-0928	EA	3/8" x 1/2", (PE x Threaded) Male Adapter For PEX Tubing.....	18.15	
		For Work In Restricted Working Space, Add	5.01	
22 11 16 00-0929	EA	1/2" x 1/2", (PE x Threaded) Male Adapter For PEX Tubing.....	19.44	
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0930	EA	1/2" x 3/4", (PE x Threaded) Male Adapter For PEX Tubing.....	20.88	
		For Work In Restricted Working Space, Add	5.68	
22 11 16 00-0931	EA	3/4" x 3/4", (PE x Threaded) Male Adapter For PEX Tubing.....	22.00	
		For Work In Restricted Working Space, Add	6.02	
22 11 16 00-0932	EA	3/4" x 1/2", (PE x Threaded) Male Adapter For PEX Tubing.....	20.88	
		For Work In Restricted Working Space, Add	5.68	
22 11 16 00-0933	EA	1" x 1", (PE x Threaded) Male Adapter For PEX Tubing.....	25.71	
		For Work In Restricted Working Space, Add	6.69	
22 11 16 00-0934		Female Adapters (22 11 16 00-0926)		
22 11 16 00-0935	EA	1/2" x 1/2", (PE x Threaded) Female Adapter For PEX Tubing	19.60	
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0936	EA	1/2" x 3/4", (PE x Threaded) Female Adapter For PEX Tubing	21.34	
		For Work In Restricted Working Space, Add	5.68	
22 11 16 00-0937	EA	3/4" x 3/4", (PE x Threaded) Female Adapter For PEX Tubing	22.46	
		For Work In Restricted Working Space, Add	6.02	
22 11 16 00-0938	EA	3/4" x 1/2", (PE x Threaded) Female Adapter For PEX Tubing	21.34	
		For Work In Restricted Working Space, Add	5.68	
22 11 16 00-0939	EA	1" x 1", (PE x Threaded) Female Adapter For PEX Tubing	25.92	
		For Work In Restricted Working Space, Add	6.69	
22 11 16 00-0940		Tube Adapters (22 11 16 00-0926)		
22 11 16 00-0941	EA	3/8" x 1/2" Tube Adapter For PEX Tubing	17.47	
		For Work In Restricted Working Space, Add	5.01	
22 11 16 00-0942	EA	1/2" Tube Adapter For PEX Tubing	18.59	
		For Work In Restricted Working Space, Add	5.35	
22 11 16 00-0943	EA	3/4" Tube Adapter For PEX Tubing	21.46	
		For Work In Restricted Working Space, Add	6.02	
22 11 16 00-0944	EA	1" Tube Adapter For PEX Tubing	25.28	
		For Work In Restricted Working Space, Add	6.69	
22 11 16 00-0945		Plugs (22 11 16 00-0926)		
22 11 16 00-0946	EA	3/8" Plug For PEX Tubing.....	8.39	
		For Work In Restricted Working Space, Add	2.34	
22 11 16 00-0947	EA	1/2" Plug For PEX Tubing.....	9.50	
		For Work In Restricted Working Space, Add	2.67	
22 11 16 00-0948	EA	3/4" Plug For PEX Tubing.....	10.79	
		For Work In Restricted Working Space, Add	3.01	
22 11 16 00-0949	EA	1" Plug For PEX Tubing.....	12.54	
		For Work In Restricted Working Space, Add	3.34	

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22 11 16 00-0950		Tees (22 11 16 00-0926)		
22 11 16 00-0951	EA	3/8" Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	24.64 7.02	
22 11 16 00-0952	EA	1/2" Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	27.97 8.02	
22 11 16 00-0953	EA	3/4" Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	32.16 9.03	
22 11 16 00-0954	EA	1" Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	37.86 10.03	
22 11 16 00-0955	EA	1/2" Reducing Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	26.86 7.69	
22 11 16 00-0956	EA	3/4" Reducing Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	29.93 8.36	
22 11 16 00-0957	EA	1" Reducing Tee For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	34.19 9.03	
22 11 16 00-0958		Couplings (22 11 16 00-0926)		
22 11 16 00-0959	EA	3/8" Coupling For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	16.23 4.68	
22 11 16 00-0960	EA	1/2" Coupling For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	18.50 5.35	
22 11 16 00-0961	EA	3/4" Coupling For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	20.94 6.02	
22 11 16 00-0962	EA	1" Coupling For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	24.15 6.69	
22 11 16 00-0963	EA	3/4" x 1/2" Reducing Coupling For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	19.82 5.68	
22 11 16 00-0964	EA	1" x 3/4" Reducing Coupling For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	23.03 6.35	
22 11 16 00-0965		Fitting Reducers (22 11 16 00-0926)		
22 11 16 00-0966	EA	3/8" x 1/2" Fitting Reducer For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	17.59 5.01	
22 11 16 00-0967	EA	1/2" Fitting Reducer For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	18.71 5.35	
22 11 16 00-0968	EA	3/4" Fitting Reducer For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	21.71 6.02	
22 11 16 00-0969	EA	1" Fitting Reducer For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	26.72 6.69	
22 11 16 00-0970		90 Degree Elbows (22 11 16 00-0926)		
22 11 16 00-0971	EA	3/8" 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	16.61 4.68	
22 11 16 00-0972	EA	1/2" 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	18.84 5.35	
22 11 16 00-0973	EA	3/4" 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	21.71 6.02	
22 11 16 00-0974	EA	1" 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	20.59 5.68	
22 11 16 00-0975	EA	1/2" Drop 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	21.46 5.35	
22 11 16 00-0976	EA	3/4" Drop 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	24.07 6.02	
22 11 16 00-0977	EA	1" Drop 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	22.95 5.68	
22 11 19		Domestic Water Piping Specialties (22 11)		
22 11 19 00-0001		Rubber Hose And Clamps (22 11 19)		
22 11 19 00-0002		General Purpose Hose (22 11 19 00-0001) Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF	3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.24	2.23
22 11 19 00-0004	LF	1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.31	2.23
22 11 19 00-0005	LF	5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.47	2.23
22 11 19 00-0006	LF	3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.43	2.23
22 11 19 00-0007	LF	1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	13.04	3.33
22 11 19 00-0008	LF	1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	14.59	3.33
22 11 19 00-0009	LF	1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	17.06	4.44
22 11 19 00-0010		Chemical Resistant Rubber Hoses (22 11 19 00-0001)		
22 11 19 00-0011	EA	50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,198.23	259.75
22 11 19 00-0012	EA	50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,642.92	259.75
22 11 19 00-0013		Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0014	EA	2" Inside Diameter, 20' Rubber Discharge Hose.....	217.57	67.93



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22 11 19 00-0015 EA 2" Inside Diameter, 20' Rubber Intake Hose.....	223.89	67.93
22 11 19 00-0016 Serrated Shank Nipple (22 11 19 00-0001) Note: For use as medium pressure coupling.		
22 11 19 00-0017 EA 3/8" Inside Diameter Hose x 1/2" Male Pipe Thread Serrated Shank Nipple.....	23.98	5.56
22 11 19 00-0018 EA 1/2" Inside Diameter Hose x 5/8" Male Pipe Thread Serrated Shank Nipple.....	23.89	5.56
22 11 19 00-0019 EA 5/8" Inside Diameter Hose x 3/4" Male Pipe Thread Serrated Shank Nipple.....	23.89	5.56
22 11 19 00-0020 EA 3/4" Inside Diameter Hose x 1" Male Pipe Thread Serrated Shank Nipple.....	30.12	7.78
22 11 19 00-0021 EA 1" Inside Diameter Hose x 1-1/4" Male Pipe Thread Serrated Shank Nipple.....	31.59	7.78
22 11 19 00-0022 EA 1-1/4" Inside Diameter Hose x 1-1/2" Male Pipe Thread Serrated Shank Nipple.....	59.84	14.46
22 11 19 00-0023 EA 1-1/2" Inside Diameter Hose x 2" Male Pipe Thread Serrated Shank Nipple.....	74.42	17.79
22 11 19 00-0024 Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0025 EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....	11.22	3.33
22 11 19 00-0026 EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	11.87	3.33
22 11 19 00-0027 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	12.59	3.33
22 11 19 00-0028 EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....	13.41	3.33
22 11 19 00-0029 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	14.36	3.33
22 11 19 00-0030 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	15.50	4.44
22 11 19 00-0031 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	16.77	4.44
22 11 19 00-0032 Trap Primer And Accessories (22 11 19)		
22 11 19 00-0033 Trap Primer (22 11 19 00-0032)		
22 11 19 00-0034 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	154.91	16.71
22 11 19 00-0035 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	96.62	11.14
22 11 19 00-0036 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	94.21	11.14
22 11 19 00-0037 Trap Primer Distribution Unit (22 11 19 00-0032)		
22 11 19 00-0038 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U).....	104.44	22.29
Note: Can be used for two, three or four drains.		
22 11 19 00-0039 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4).....	110.93	22.29
Note: Can be used for two, three or four drains.		
22 11 19 00-0040 Trap Primer Manifold (22 11 19 00-0032)		
22 11 19 00-0041 EA Two Outlet Manifold.....	127.57	29.98
22 11 19 00-0042 EA Four Outlet Manifold.....	182.71	34.10
22 11 19 00-0043 EA Six Outlet Manifold.....	234.80	36.11
22 11 19 00-0044 EA Eight Outlet Manifold.....	292.48	42.35
22 11 19 00-0045 Sewage Air Release Valves (22 11 19)		
22 11 19 00-0046 Cast Iron, Sewage Air Release Valves (22 11 19 00-0045) Note: Stainless steel float.		
22 11 19 00-0047 EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	704.21	40.68
For Back Flush Attachment, Add		650.00
22 11 19 00-0048 EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	873.76	67.99
For Back Flush Attachment, Add		650.00
22 11 19 00-0049 EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,107.77	85.83
For Back Flush Attachment, Add		650.00
22 11 19 00-0050 Cast Iron, Sewage Air Vacuum Valves (22 11 19 00-0045) Note: Stainless steel float.		
22 11 19 00-0051 EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401).....	719.04	40.68
For Back Flush Attachment, Add		650.00
22 11 19 00-0052 EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402).....	1,390.08	40.68
For Back Flush Attachment, Add		650.00
22 11 19 00-0053 EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403).....	1,678.27	67.99
For Back Flush Attachment, Add		650.00
22 11 19 00-0054 EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	2,477.65	85.83
22 11 19 00-0055 Cast Iron, Sewage Combination Air Valves (22 11 19 00-0045) Note: Stainless steel float.		
22 11 19 00-0056 EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	1,512.43	40.68
22 11 19 00-0057 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,077.80	40.68
22 11 19 00-0058 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	2,441.99	67.99
22 11 19 00-0059 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	2,987.42	85.83
22 11 19 00-0060 Brass, Anti Siphon Vacuum Breakers (22 11 19) Note: Watts 288A		
22 11 19 00-0061 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	76.26	27.86
22 11 19 00-0062 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	86.43	31.20
22 11 19 00-0063 EA 1" Brass, Anti Siphon Vacuum Breaker.....	144.94	35.66

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22 11 19 00-0064	EA	1-1/4" Brass, Anti Siphon Vacuum Breaker	213.02	41.23
22 11 19 00-0065	EA	1-1/2" Brass, Anti Siphon Vacuum Breaker	253.20	45.68
22 11 19 00-0066	EA	2" Brass, Anti Siphon Vacuum Breaker.....	356.81	55.71
22 11 19 00-0067	EA	2-1/2" Brass, Anti Siphon Vacuum Breaker	849.72	69.64
22 11 19 00-0068		Anti Siphon Pressure Vacuum Breakers (22 11 19)		
		Note: Watts 800M4QT		
22 11 19 00-0069	EA	1/2" Anti Siphon Pressure Type Vacuum Breaker	163.30	27.86
22 11 19 00-0070	EA	3/4" Anti Siphon Pressure Type Vacuum Breaker	150.18	31.20
22 11 19 00-0071	EA	1" Anti Siphon Pressure Type Vacuum Breaker	204.15	35.66
22 11 19 00-0072	EA	1-1/4" Anti Siphon Pressure Type Vacuum Breaker	343.27	41.23
22 11 19 00-0073	EA	1-1/2" Anti Siphon Pressure Type Vacuum Breaker	415.75	45.68
22 11 19 00-0074	EA	2" Anti Siphon Pressure Type Vacuum Breaker	429.62	55.71
22 11 19 00-0075		Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0076	EA	Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	135.95	13.33
22 11 19 00-0077	EA	>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	254.69	16.12
22 11 19 00-0078	EA	>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	364.96	16.12
22 11 19 00-0079	EA	>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	866.38	16.12
22 11 19 00-0080	EA	>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	973.79	16.12
22 11 19 00-0081	EA	>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	1,189.23	16.12
22 11 19 00-0082		Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0083		Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0082)		
22 11 19 00-0084	EA	Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	81.40	7.43
22 11 19 00-0085	EA	>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	150.23	8.57
22 11 19 00-0086	EA	>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C)	219.57	9.29
22 11 19 00-0087	EA	>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	528.48	11.98
22 11 19 00-0088	EA	>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	643.96	14.85
22 11 19 00-0089	EA	>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F)	731.93	16.12
22 11 19 00-0090		Wall Hydrants (22 11 19)		
		Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0091		Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0090)		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0092	EA	6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	490.41	27.86
		For Cast Bronze Box, Add	23.04	
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0093	EA	12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	522.56	33.43
		For Cast Bronze Box, Add	23.04	
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0094	EA	18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	545.39	40.23
		For Cast Bronze Box, Add	23.04	
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0095		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0090)		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0096	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	532.22	46.80
		For Cast Bronze Box, Add	23.04	
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0097		Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0090)		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0098	EA	3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	303.63	34.54
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0099	EA	4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	361.98	34.54
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0100	EA	6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	361.98	34.54
		For 1" NPT Outlet, Add	54.31	
22 11 19 00-0101	EA	8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	361.98	34.54
		For 1" NPT Outlet, Add	54.31	



	Plumbing	22	22
	Plumbing Piping	22 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0102 EA 10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant For 1" NPT Outlet, Add	375.55 54.31	69.64
22 11 19 00-0103 EA 12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant For 1" NPT Outlet, Add	375.55 54.31	69.64
22 11 19 00-0104 EA 18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant For 1" NPT Outlet, Add	416.17 54.31	69.64
22 11 19 00-0105 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0090) Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0106 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	264.02	27.86
22 11 19 00-0107 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	284.38	27.86
22 11 19 00-0108 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	287.15	27.86
22 11 19 00-0109 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	317.69	27.86
22 11 19 00-0110 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145)..... Note: Includes hot and cold hose connections.	438.95	39.00
22 11 19 00-0111 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146) Note: Includes hot and cold hose connections.	450.98	39.00
22 11 19 00-0112 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155)..... Note: Includes hot and cold hose connections.	450.98	39.00
22 11 19 00-0113 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156) Note: Includes hot and cold hose connections.	479.66	39.00
22 11 19 00-0114 Washer Boxes And Dryer Outlets (22 11 19)		
22 11 19 00-0115 Dryer Vent Kit (22 11 19 00-0114) Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0116 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	72.87	14.49
22 11 19 00-0117 Washer Boxes And Dryer Vents (22 11 19 00-0114) Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0118 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	247.94	22.29
22 11 19 00-0119 Ice Maker Outlet Box (22 11 19) Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0120 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	132.58	22.29
22 11 19 00-0121 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	157.38	22.29
22 11 19 00-0122 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	171.04	22.29
22 11 19 00-0123 Tempering Controllers For Potable Hot Water (22 11 19)		
22 11 19 00-0124 Point-Of-Use Thermostatic Mixing Valves (Bradley) (22 11 19 00-0123) Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0125 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	324.09	26.97
22 11 19 00-0126 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	148.71	26.97
22 11 19 00-0127 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	192.76	26.97
22 11 19 00-0128 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	225.09	36.34
22 11 19 00-0129 Thermostatic Mixing Valves (Bradley) (22 11 19 00-0123) Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0130 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025).....	855.82	38.90
22 11 19 00-0131 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045).....	963.61	47.91
22 11 19 00-0132 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080).....	1,157.12	55.73
22 11 19 00-0133 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	1,490.30	58.58
22 11 19 00-0134 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	1,998.93	76.00
22 11 19 00-0135 High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0123) Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0136 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045).....	2,153.95	59.91
22 11 19 00-0137 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	2,797.60	69.66
22 11 19 00-0138 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	3,257.01	73.22
22 11 19 00-0139 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200).....	3,618.11	94.99
22 11 19 00-0140 Thermostatic Mixing Valves (Leonard) (22 11 19 00-0123) Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0141 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	605.82	38.90
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0142 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	714.88	47.91
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0143 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	876.17	55.73
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0144 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,063.93	58.60
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0145 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	1,572.17	76.00
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0146 Water Mixing/Self Operating Temperature Regulator (22 11 19 00-0123)		
Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0147 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,319.31	55.71
22 11 19 00-0148 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,423.04	70.21
22 11 19 00-0149 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,585.67	84.69
22 11 19 00-0150 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,761.05	99.18
22 11 19 00-0151 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,061.28	130.38
22 11 19 00-0152 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,384.02	148.61
22 11 19 00-0153 Backflow Preventer Valves (22 11 19)		
22 11 19 00-0154 Double Check Valve Backflow Preventer Assemblies (22 11 19 00-0153)		
22 11 19 00-0155 Threaded Double Check Valve Assemblies (22 11 19 00-0154)		
22 11 19 00-0156 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0155)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0157 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	252.54	29.87
For Work In Restricted Working Space, Add	22.40	
For Owner Furnished Material, Deduct	-177.88	
22 11 19 00-0158 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	306.67	42.35
For Work In Restricted Working Space, Add	31.76	
For Owner Furnished Material, Deduct	-200.81	
22 11 19 00-0159 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	357.10	51.70
For Work In Restricted Working Space, Add	38.78	
For Owner Furnished Material, Deduct	-227.84	
22 11 19 00-0160 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	485.17	60.18
For Work In Restricted Working Space, Add	45.13	
For Owner Furnished Material, Deduct	-334.73	
22 11 19 00-0161 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	593.67	69.09
For Work In Restricted Working Space, Add	51.48	
For Owner Furnished Material, Deduct	-422.07	
22 11 19 00-0162 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	696.07	89.15
For Work In Restricted Working Space, Add	66.86	
For Owner Furnished Material, Deduct	-473.20	
22 11 19 00-0163 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0155)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0164 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	303.44	29.87
For Work In Restricted Working Space, Add	22.40	
For Owner Furnished Material, Deduct	-228.78	
22 11 19 00-0165 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	381.22	42.35
For Work In Restricted Working Space, Add	31.76	
For Owner Furnished Material, Deduct	-275.36	
22 11 19 00-0166 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	448.50	51.70
For Work In Restricted Working Space, Add	38.78	
For Owner Furnished Material, Deduct	-319.23	
22 11 19 00-0167 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	615.38	60.18
For Work In Restricted Working Space, Add	45.13	
For Owner Furnished Material, Deduct	-464.95	
22 11 19 00-0168 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	747.05	69.09
For Work In Restricted Working Space, Add	51.48	
For Owner Furnished Material, Deduct	-575.45	
22 11 19 00-0169 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	907.82	89.15
For Work In Restricted Working Space, Add	66.86	
For Owner Furnished Material, Deduct	-684.95	
22 11 19 00-0170 Flanged Double Check Valve Assemblies (22 11 19 00-0154)		



Plumbing			22
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0171 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0170) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts 007 NRS series).		
22 11 19 00-0172 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 007 NRS).....	1,766.30	246.15
For Work In Restricted Working Space, Add	98.46	
For Owner Furnished Material, Deduct	-1,438.10	
22 11 19 00-0173 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 007 NRS).....	1,943.58	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-1,579.48	
22 11 19 00-0174 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0170) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts 007 OSY series).		
22 11 19 00-0175 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	1,912.48	246.15
For Work In Restricted Working Space, Add	98.46	
For Owner Furnished Material, Deduct	-1,584.28	
22 11 19 00-0176 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	2,187.38	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-1,823.28	
22 11 19 00-0177 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0170) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts 709 NRS series).		
22 11 19 00-0178 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 709 NRS series).....	2,157.48	246.15
For Work In Restricted Working Space, Add	98.45	
For Owner Furnished Material, Deduct	-1,829.30	
22 11 19 00-0179 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 709 NRS series).....	2,373.05	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-2,008.94	
22 11 19 00-0180 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 709 NRS series).....	2,770.03	410.25
For Work In Restricted Working Space, Add	164.01	
For Owner Furnished Material, Deduct	-2,223.32	
22 11 19 00-0181 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 709 NRS series).....	4,627.86	582.69
For Work In Restricted Working Space, Add	315.78	
For Owner Furnished Material, Deduct	-3,575.26	
22 11 19 00-0182 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 709 NRS series).....	8,747.36	874.03
For Work In Restricted Working Space, Add	473.75	
For Owner Furnished Material, Deduct	-7,168.21	
22 11 19 00-0183 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 709 NRS series).....	11,419.65	1,033.80
For Work In Restricted Working Space, Add	563.89	
For Owner Furnished Material, Deduct	-9,540.02	
22 11 19 00-0184 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer (22 11 19 00-0170) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0185 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts 709 NRS-S series).....	2,359.77	246.15
For Work In Restricted Working Space, Add	98.45	
For Owner Furnished Material, Deduct	-2,031.59	
22 11 19 00-0186 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts 709 NRS-S series).....	2,615.07	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-2,250.97	
22 11 19 00-0187 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts 709 NRS-S series).....	3,308.14	410.25
For Work In Restricted Working Space, Add	164.00	
For Owner Furnished Material, Deduct	-2,761.48	
22 11 19 00-0188 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts 709 NRS-S series).....	5,648.98	582.69
For Work In Restricted Working Space, Add	315.78	
For Owner Furnished Material, Deduct	-4,596.38	
22 11 19 00-0189 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts 709 NRS-S series).....	10,467.40	874.03
For Work In Restricted Working Space, Add	473.67	
For Owner Furnished Material, Deduct	-8,888.50	
22 11 19 00-0190 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts 709 NRS-S series).....	11,419.65	1,033.80
For Work In Restricted Working Space, Add	563.89	
For Owner Furnished Material, Deduct	-9,540.02	
22 11 19 00-0191 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0170) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts 709 OSY series).		
22 11 19 00-0192 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 709 OSY series).....	2,284.61	246.15
For Work In Restricted Working Space, Add	98.45	
For Owner Furnished Material, Deduct	-1,956.43	
22 11 19 00-0193 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 709 OSY series).....	2,604.25	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-2,240.15	
22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 709 OSY series).....	3,039.41	410.25
For Work In Restricted Working Space, Add	164.00	
For Owner Furnished Material, Deduct	-2,492.75	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0195	EA	6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 709 OSY series).....	4,950.32	582.69
		<i>For Work In Restricted Working Space, Add</i>	315.78	
		<i>For Owner Furnished Material, Deduct</i>	-3,897.72	
22 11 19 00-0196	EA	8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 709 OSY series).....	9,285.10	874.03
		<i>For Work In Restricted Working Space, Add</i>	473.67	
		<i>For Owner Furnished Material, Deduct</i>	-7,706.20	
22 11 19 00-0197	EA	10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 709 OSY series).....	12,494.54	1,033.80
		<i>For Work In Restricted Working Space, Add</i>	563.89	
		<i>For Owner Furnished Material, Deduct</i>	-10,614.91	
22 11 19 00-0198 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0170)				
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).				
22 11 19 00-0199	EA	2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	1,981.19	246.15
		<i>For Work In Restricted Working Space, Add</i>	98.45	
		<i>For Owner Furnished Material, Deduct</i>	-1,653.01	
22 11 19 00-0200	EA	3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,182.51	276.92
		<i>For Work In Restricted Working Space, Add</i>	109.23	
		<i>For Owner Furnished Material, Deduct</i>	-1,818.41	
22 11 19 00-0201	EA	4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,530.47	410.25
		<i>For Work In Restricted Working Space, Add</i>	164.00	
		<i>For Owner Furnished Material, Deduct</i>	-1,983.81	
22 11 19 00-0202	EA	6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	4,154.56	582.69
		<i>For Work In Restricted Working Space, Add</i>	315.78	
		<i>For Owner Furnished Material, Deduct</i>	-3,101.96	
22 11 19 00-0203	EA	8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	7,711.74	874.03
		<i>For Work In Restricted Working Space, Add</i>	473.67	
		<i>For Owner Furnished Material, Deduct</i>	-6,132.84	
22 11 19 00-0204	EA	10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	8,442.20	1,033.80
		<i>For Work In Restricted Working Space, Add</i>	563.89	
		<i>For Owner Furnished Material, Deduct</i>	-6,562.57	
22 11 19 00-0205 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0170)				
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).				
22 11 19 00-0206	EA	2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757N OSY series).....	2,567.72	246.15
		<i>For Work In Restricted Working Space, Add</i>	98.45	
		<i>For Owner Furnished Material, Deduct</i>	-2,239.54	
22 11 19 00-0207	EA	3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757N OSY series).....	2,769.04	276.92
		<i>For Work In Restricted Working Space, Add</i>	109.23	
		<i>For Owner Furnished Material, Deduct</i>	-2,404.94	
22 11 19 00-0208	EA	4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	3,510.57	410.25
		<i>For Work In Restricted Working Space, Add</i>	164.00	
		<i>For Owner Furnished Material, Deduct</i>	-2,963.91	
22 11 19 00-0209	EA	6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757N OSY series).....	5,795.30	582.69
		<i>For Work In Restricted Working Space, Add</i>	315.78	
		<i>For Owner Furnished Material, Deduct</i>	-4,742.70	
22 11 19 00-0210	EA	8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757N OSY series).....	10,143.48	874.03
		<i>For Work In Restricted Working Space, Add</i>	473.67	
		<i>For Owner Furnished Material, Deduct</i>	-8,564.58	
22 11 19 00-0211	EA	10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757N OSY series).....	12,070.97	1,033.80
		<i>For Work In Restricted Working Space, Add</i>	563.89	
		<i>For Owner Furnished Material, Deduct</i>	-10,191.34	
22 11 19 00-0212 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves (22 11 19 00-0170)				
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).				
22 11 19 00-0213	EA	2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	1,864.54	246.15
		<i>For Work In Restricted Working Space, Add</i>	98.45	
		<i>For Owner Furnished Material, Deduct</i>	-1,536.36	
22 11 19 00-0214	EA	3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,071.16	276.92
		<i>For Work In Restricted Working Space, Add</i>	109.23	
		<i>For Owner Furnished Material, Deduct</i>	-1,707.06	
22 11 19 00-0215	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,424.35	410.25
		<i>For Work In Restricted Working Space, Add</i>	164.00	
		<i>For Owner Furnished Material, Deduct</i>	-1,877.69	
22 11 19 00-0216	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	4,071.20	582.69
		<i>For Work In Restricted Working Space, Add</i>	315.78	
		<i>For Owner Furnished Material, Deduct</i>	-3,018.60	
22 11 19 00-0217	EA	8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	7,631.41	874.03
		<i>For Work In Restricted Working Space, Add</i>	473.67	
		<i>For Owner Furnished Material, Deduct</i>	-6,052.51	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0218 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	8,666.51 563.89 -6,786.88	1,033.80
22 11 19 00-0219 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0170) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0220 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,401.88 98.45 -2,073.70	246.15
22 11 19 00-0221 EA 3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,603.20 109.23 -2,239.10	276.92
22 11 19 00-0222 EA 4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	3,344.94 164.00 -2,798.28	410.25
22 11 19 00-0223 EA 6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	5,618.88 315.78 -4,566.28	582.69
22 11 19 00-0224 EA 8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	9,876.45 473.67 -8,297.55	874.03
22 11 19 00-0225 EA 10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	11,803.16 563.89 -9,923.53	1,033.80
22 11 19 00-0226 Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0170) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0227 EA 2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,140.44 98.45 -1,812.26	246.15
22 11 19 00-0228 EA 3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,341.75 109.23 -1,977.65	276.92
22 11 19 00-0229 EA 4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,689.71 164.00 -2,143.05	410.25
22 11 19 00-0230 EA 6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,317.82 315.78 -3,265.22	582.69
22 11 19 00-0231 EA 8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	7,874.99 473.67 -6,296.09	874.03
22 11 19 00-0232 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0170) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0233 EA 2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,726.96 98.45 -2,398.78	246.15
22 11 19 00-0234 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,928.28 109.23 -2,564.18	276.92
22 11 19 00-0235 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	3,669.81 164.00 -3,123.15	410.25
22 11 19 00-0236 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	5,958.59 315.78 -4,905.99	582.69
22 11 19 00-0237 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	7,874.99 473.67 -6,296.09	874.03
22 11 19 00-0238 Grooved Double Check Valve Assemblies (22 11 19 00-0154)		
22 11 19 00-0239 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0238) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0240 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	1,864.54 98.45 -1,536.36	131.28
22 11 19 00-0241 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,071.16 109.23 -1,707.06	145.64

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0242		N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0238) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0243	EA	2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,401.88 98.45 -2,073.70	131.28
22 11 19 00-0244	EA	3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,603.20 109.23 -2,239.10	145.64
22 11 19 00-0245		Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0153)		
22 11 19 00-0246		Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0245)		
22 11 19 00-0247		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0246) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0248	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	271.52 19.39 -206.89	25.86
22 11 19 00-0249	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	288.26 21.40 -216.94	28.53
22 11 19 00-0250	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	331.64 22.40 -256.98	29.87
22 11 19 00-0251	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	448.11 31.76 -342.25	42.35
22 11 19 00-0252	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	533.46 38.78 -404.19	51.70
22 11 19 00-0253	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	784.48 45.13 -634.05	60.18
22 11 19 00-0254	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	835.47 51.48 -663.87	69.09
22 11 19 00-0255	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	1,010.66 66.86 -787.79	89.15
22 11 19 00-0256		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0246) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0257	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	296.57 19.39 -231.94	25.86
22 11 19 00-0258	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	314.65 21.40 -243.33	28.53
22 11 19 00-0259	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	367.81 22.40 -293.15	42.35
22 11 19 00-0260	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	504.96 31.76 -399.10	42.35
22 11 19 00-0261	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	604.54 38.78 -475.27	51.70
22 11 19 00-0262	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	881.42 45.13 -730.99	60.18
22 11 19 00-0263	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	972.27 51.48 -800.67	69.09
22 11 19 00-0264	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	1,178.50 66.86 -955.63	89.15



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0265 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0246) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0266 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	448.11	42.35
For Work In Restricted Working Space, Add	31.76	
For Owner Furnished Material, Deduct	-342.25	
22 11 19 00-0267 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	533.45	51.70
For Work In Restricted Working Space, Add	38.78	
For Owner Furnished Material, Deduct	-404.19	
22 11 19 00-0268 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	784.49	60.18
For Work In Restricted Working Space, Add	45.13	
For Owner Furnished Material, Deduct	-634.05	
22 11 19 00-0269 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	835.47	69.09
For Work In Restricted Working Space, Add	51.48	
For Owner Furnished Material, Deduct	-663.87	
22 11 19 00-0270 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,010.66	89.15
For Work In Restricted Working Space, Add	66.86	
For Owner Furnished Material, Deduct	-787.79	
22 11 19 00-0271 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0246) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0272 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	504.96	42.35
For Work In Restricted Working Space, Add	31.76	
For Owner Furnished Material, Deduct	-399.10	
22 11 19 00-0273 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	604.54	51.70
For Work In Restricted Working Space, Add	38.78	
For Owner Furnished Material, Deduct	-475.27	
22 11 19 00-0274 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	881.42	60.18
For Work In Restricted Working Space, Add	45.13	
For Owner Furnished Material, Deduct	-730.99	
22 11 19 00-0275 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	972.27	69.09
For Work In Restricted Working Space, Add	51.48	
For Owner Furnished Material, Deduct	-800.67	
22 11 19 00-0276 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series)	1,178.50	89.15
For Work In Restricted Working Space, Add	66.86	
For Owner Furnished Material, Deduct	-955.63	
22 11 19 00-0277 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0246) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0278 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909QT)	644.82	42.35
For Work In Restricted Working Space, Add	31.76	
For Owner Furnished Material, Deduct	-538.96	
22 11 19 00-0279 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909QT)	765.35	51.70
For Work In Restricted Working Space, Add	38.78	
For Owner Furnished Material, Deduct	-636.08	
22 11 19 00-0280 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	1,148.76	60.18
For Work In Restricted Working Space, Add	45.13	
For Owner Furnished Material, Deduct	-998.33	
22 11 19 00-0281 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	1,248.13	69.09
For Work In Restricted Working Space, Add	51.48	
For Owner Furnished Material, Deduct	-1,076.53	
22 11 19 00-0282 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	1,462.69	89.15
For Work In Restricted Working Space, Add	66.86	
For Owner Furnished Material, Deduct	-1,239.82	
22 11 19 00-0283 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0246) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 909 QT-S series).		
22 11 19 00-0284 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 909QT-S)	721.40	42.35
For Work In Restricted Working Space, Add	31.76	
For Owner Furnished Material, Deduct	-615.54	
22 11 19 00-0285 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 909QT-S)	860.35	51.70
For Work In Restricted Working Space, Add	38.78	
For Owner Furnished Material, Deduct	-731.08	
22 11 19 00-0286 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 909M1QT-S)	1,280.70	60.18
For Work In Restricted Working Space, Add	45.13	
For Owner Furnished Material, Deduct	-1,130.27	
22 11 19 00-0287 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 909M1QT-S)	1,403.99	69.09
For Work In Restricted Working Space, Add	51.48	
For Owner Furnished Material, Deduct	-1,232.39	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0288	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 909M1QT-S) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,681.88 66.86 -1,459.01	89.15
22 11 19 00-0289		Flanged Reduced Pressure Zone Assemblies (22 11 19 00-0245)		
22 11 19 00-0290		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts 009 NRS series).		
22 11 19 00-0291	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 009 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,088.15 98.46 -1,759.95	246.15
22 11 19 00-0292	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 009 NRS series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,349.20 109.23 -1,985.10	276.92
22 11 19 00-0293		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0289) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts 009 NRS-S series).		
22 11 19 00-0294	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 009 NRS-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,308.71 98.46 -1,980.51	246.15
22 11 19 00-0295	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 009 NRS-S series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,608.33 109.23 -2,244.23	276.92
22 11 19 00-0296		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts 009 OSY series).		
22 11 19 00-0297	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 009 OSY series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,225.93 98.46 -1,897.73	246.15
22 11 19 00-0298	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 009 OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,578.98 109.23 -2,214.88	276.92
22 11 19 00-0299		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts 009 QT-FDA series).		
22 11 19 00-0300	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts 009 QT-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,599.34 98.46 -2,271.14	246.15
22 11 19 00-0301	EA	3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts 009 QT-FDA series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	2,967.32 109.23 -2,603.22	276.92
22 11 19 00-0302		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts FAE 909 QT series).		
22 11 19 00-0303	EA	1-1/4" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts FAE 909 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,017.21 61.54 -812.09	153.84
22 11 19 00-0304	EA	1-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts FAE 909 QT series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,133.48 72.31 -892.46	179.49
22 11 19 00-0305	EA	2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts FAE 909 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,340.58 84.62 -1,058.53	210.26
22 11 19 00-0306		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0289) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, iron body strainers, and captured spring assemblies (Watts FAE 909 QT-S series).		
22 11 19 00-0307	EA	1-1/4" Flanged Reduced Pressure Zone Assembly With QT Shut-offs And Strainer (Watts FAE 909 QT-S series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,099.65 61.54 -894.53	153.84
22 11 19 00-0308	EA	1-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs And Strainer (Watts FAE 909 QT-S series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,398.59 72.31 -1,157.57	179.49
22 11 19 00-0309	EA	2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs And Strainer (Watts FAE 909 QT-S series)..... <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,483.70 84.62 -1,201.65	210.26



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0310 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts 909 NRS series).		
22 11 19 00-0311 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909 NRS series).....	2,578.36	246.15
For Work In Restricted Working Space, Add	98.45	
For Owner Furnished Material, Deduct	-2,250.18	
22 11 19 00-0312 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909 NRS series).....	2,905.06	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-2,540.95	
22 11 19 00-0313 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909 NRS series).....	3,633.30	410.25
For Work In Restricted Working Space, Add	164.01	
For Owner Furnished Material, Deduct	-3,086.59	
22 11 19 00-0314 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909 NRS series).....	6,388.69	582.69
For Work In Restricted Working Space, Add	442.12	
For Owner Furnished Material, Deduct	-4,914.97	
22 11 19 00-0315 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909M1 NRS series).....	10,818.23	874.03
For Work In Restricted Working Space, Add	663.18	
For Owner Furnished Material, Deduct	-8,607.64	
22 11 19 00-0316 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909M1 NRS series).....	13,319.96	1,033.80
For Work In Restricted Working Space, Add	563.89	
For Owner Furnished Material, Deduct	-11,440.33	
22 11 19 00-0317 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0289) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts 909 NRS-S series).		
22 11 19 00-0318 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 909 NRS-S series).....	2,781.17	246.15
For Work In Restricted Working Space, Add	98.45	
For Owner Furnished Material, Deduct	-2,452.99	
22 11 19 00-0319 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 909 NRS-S series).....	3,144.04	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-2,779.94	
22 11 19 00-0320 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 909 NRS-S series).....	4,094.00	410.25
For Work In Restricted Working Space, Add	164.00	
For Owner Furnished Material, Deduct	-3,547.34	
22 11 19 00-0321 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 909 NRS-S series).....	6,843.25	582.69
For Work In Restricted Working Space, Add	315.78	
For Owner Furnished Material, Deduct	-5,790.65	
22 11 19 00-0322 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 909 NRS-S series).....	11,660.24	874.03
For Work In Restricted Working Space, Add	473.67	
For Owner Furnished Material, Deduct	-10,081.34	
22 11 19 00-0323 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts 909 NRS-S series).....	15,853.25	1,033.80
For Work In Restricted Working Space, Add	563.89	
For Owner Furnished Material, Deduct	-13,973.62	
22 11 19 00-0324 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts 909 OSY series).		
22 11 19 00-0325 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY series).....	2,661.90	246.15
For Work In Restricted Working Space, Add	98.45	
For Owner Furnished Material, Deduct	-2,333.72	
22 11 19 00-0326 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY series).....	3,079.43	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-2,715.32	
22 11 19 00-0327 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY series).....	3,732.24	410.25
For Work In Restricted Working Space, Add	164.01	
For Owner Furnished Material, Deduct	-3,185.53	
22 11 19 00-0328 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY series).....	6,122.66	582.69
For Work In Restricted Working Space, Add	315.78	
For Owner Furnished Material, Deduct	-5,070.06	
22 11 19 00-0329 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY series).....	10,432.74	874.03
For Work In Restricted Working Space, Add	473.67	
For Owner Furnished Material, Deduct	-8,853.84	
22 11 19 00-0330 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY series).....	14,585.62	1,033.80
For Work In Restricted Working Space, Add	563.89	
For Owner Furnished Material, Deduct	-12,705.99	
22 11 19 00-0331 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated bronze body gate valves, and captured spring assemblies (Watts 909 NRS BB series).		
22 11 19 00-0332 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909 NRS BB series).....	4,262.01	246.15
For Work In Restricted Working Space, Add	98.46	
For Owner Furnished Material, Deduct	-3,933.81	
22 11 19 00-0333 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts 909 NRS BB series).....	4,806.21	276.92
For Work In Restricted Working Space, Add	109.23	
For Owner Furnished Material, Deduct	-4,442.11	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0334		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0289) Note: Includes ball type test cocks, two outside stem and yoke resilient seated bronze body gate valves, and captured spring assemblies (Watts 909 OSY BB series).		
22 11 19 00-0335	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY BB series).....	4,450.47	246.15
		For Work In Restricted Working Space, Add	98.46	
		For Owner Furnished Material, Deduct	-4,122.27	
22 11 19 00-0336	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts 909 OSY BB series).....	5,160.47	276.92
		For Work In Restricted Working Space, Add	109.23	
		For Owner Furnished Material, Deduct	-4,796.37	
22 11 19 00-0337		Double Check Detector Assemblies (22 11 19 00-0153)		
22 11 19 00-0338		Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0337)		
22 11 19 00-0339		Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0338) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0340	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	3,780.90	276.92
		For Work In Restricted Working Space, Add	109.23	
		For Owner Furnished Material, Deduct	-3,416.80	
22 11 19 00-0341	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	4,042.74	410.25
		For Work In Restricted Working Space, Add	164.00	
		For Owner Furnished Material, Deduct	-3,496.08	
22 11 19 00-0342	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	5,592.39	582.69
		For Work In Restricted Working Space, Add	315.78	
		For Owner Furnished Material, Deduct	-4,539.79	
22 11 19 00-0343	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	9,784.83	874.03
		For Work In Restricted Working Space, Add	473.67	
		For Owner Furnished Material, Deduct	-8,205.93	
22 11 19 00-0344	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	13,094.36	1,033.80
		For Work In Restricted Working Space, Add	563.89	
		For Owner Furnished Material, Deduct	-11,214.73	
22 11 19 00-0345		Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0338) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0346	EA	2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	2,859.49	246.15
		For Work In Restricted Working Space, Add	98.46	
		For Owner Furnished Material, Deduct	-2,531.29	
22 11 19 00-0347	EA	3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,060.61	276.92
		For Work In Restricted Working Space, Add	109.23	
		For Owner Furnished Material, Deduct	-2,696.51	
22 11 19 00-0348	EA	4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,412.48	410.25
		For Work In Restricted Working Space, Add	164.00	
		For Owner Furnished Material, Deduct	-2,865.82	
22 11 19 00-0349	EA	6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,773.84	582.69
		For Work In Restricted Working Space, Add	315.78	
		For Owner Furnished Material, Deduct	-3,721.24	
22 11 19 00-0350	EA	8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	8,305.37	874.03
		For Work In Restricted Working Space, Add	473.67	
		For Owner Furnished Material, Deduct	-6,726.47	
22 11 19 00-0351	EA	10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	9,802.52	1,033.80
		For Work In Restricted Working Space, Add	563.89	
		For Owner Furnished Material, Deduct	-7,922.89	
22 11 19 00-0352		Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0338) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0353	EA	2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,018.76	246.15
		For Work In Restricted Working Space, Add	98.46	
		For Owner Furnished Material, Deduct	-2,690.56	
22 11 19 00-0354	EA	3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,219.89	276.92
		For Work In Restricted Working Space, Add	109.23	
		For Owner Furnished Material, Deduct	-2,855.79	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0355 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	3,571.72 164.00 -3,025.06	410.25
22 11 19 00-0356 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,937.09 315.78 -3,884.49	582.69
22 11 19 00-0357 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	8,109.50 473.67 -6,530.60	874.03
22 11 19 00-0358 Flanged Double Check Detector Assemblies Without Meter (22 11 19 00-0337)		
22 11 19 00-0359 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter (22 11 19 00-0358) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0360 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) For Work In Restricted Working Space, Add	2,809.20 98.46	246.15
22 11 19 00-0361 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) For Work In Restricted Working Space, Add	3,010.35 109.23	276.92
22 11 19 00-0362 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) For Work In Restricted Working Space, Add	3,362.21 164.00	410.25
22 11 19 00-0363 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) For Work In Restricted Working Space, Add	4,723.57 315.78	582.69
22 11 19 00-0364 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) For Work In Restricted Working Space, Add	8,255.14 473.67	874.03
22 11 19 00-0365 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) For Work In Restricted Working Space, Add	9,752.21 563.89	1,033.80
22 11 19 00-0366 Double Check Detector Assembly With Butterfly Valves Less Meter (22 11 19 00-0358) Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0367 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) For Work In Restricted Working Space, Add	2,968.46 98.46	246.15
22 11 19 00-0368 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) For Work In Restricted Working Space, Add	3,169.59 109.23	276.92
22 11 19 00-0369 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) For Work In Restricted Working Space, Add	3,521.45 164.00	410.25
22 11 19 00-0370 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) For Work In Restricted Working Space, Add	4,886.79 315.78	582.69
22 11 19 00-0371 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) For Work In Restricted Working Space, Add	8,418.39 473.67	874.03
22 11 19 00-0372 Flanged Double Check Detector Assemblies (22 11 19 00-0337)		
22 11 19 00-0373 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs (22 11 19 00-0372) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		
22 11 19 00-0374 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	2,718.20 98.46 -2,390.00	246.15
22 11 19 00-0375 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	3,273.52 109.23 -2,909.42	276.92
22 11 19 00-0376 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	3,703.11 164.00 -3,156.45	410.25
22 11 19 00-0377 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,830.43 315.78 -3,777.83	582.69
22 11 19 00-0378 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	8,407.71 473.67 -6,828.81	874.03
22 11 19 00-0379 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	11,212.25 563.89 -9,332.62	1,033.80

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0380 EA 12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	14,839.95	1,240.56
For Work In Restricted Working Space, Add	676.67	
For Owner Furnished Material, Deduct	-12,584.40	
22 11 19 00-0381 Backflow Preventer Accessories (22 11 19 00-0153)		
22 11 19 00-0382 Air Gap (22 11 19 00-0381)		
22 11 19 00-0383 EA Up To 1" Diameter Air Gap For Backflow Preventer	75.20	13.93
22 11 19 00-0384 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	92.12	16.71
22 11 19 00-0385 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	164.03	22.29
22 11 19 00-0386 EA 4" To 6" Diameter Air Gap For Backflow Preventer	319.47	39.00
22 11 19 00-0387 EA 8" To 10" Diameter Air Gap For Backflow Preventer	352.90	55.71
22 11 19 00-0388 Brass Test Cocks (22 11 19 00-0381)		
22 11 19 00-0389 EA 1/8" Or 1/4" Brass Test Cock.....	25.19	5.57
22 11 19 00-0390 Backflow Valve Enclosures (22 11 19 00-0153)		
22 11 19 00-0391 Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0390)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0392 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	661.02	100.29
For Heated Enclosure, Add	74.08	
22 11 19 00-0393 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	799.21	100.29
For Heated Enclosure, Add	94.81	
22 11 19 00-0394 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	992.58	92.31
For Heated Enclosure, Add	125.81	
22 11 19 00-0395 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,047.47	123.08
For Heated Enclosure, Add	126.35	
22 11 19 00-0396 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,094.33	123.08
For Heated Enclosure, Add	133.38	
22 11 19 00-0397 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,276.98	123.08
For Heated Enclosure, Add	160.78	
22 11 19 00-0398 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,281.79	123.08
For Heated Enclosure, Add	161.50	
22 11 19 00-0399 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,593.01	123.08
For Heated Enclosure, Add	208.18	
22 11 19 00-0400 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,611.00	184.61
For Heated Enclosure, Add	495.50	
22 11 19 00-0401 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	5,181.54	184.61
For Heated Enclosure, Add	731.08	
22 11 19 00-0402 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,929.20	184.61
For Heated Enclosure, Add	693.23	
22 11 19 00-0403 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	5,930.97	215.38
For Heated Enclosure, Add	835.80	
22 11 19 00-0404 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0390)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0405 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	344.98	26.74
For Heated Enclosure, Add	60.08	
22 11 19 00-0406 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	472.35	26.74
For Heated Enclosure, Add	85.56	
22 11 19 00-0407 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	586.57	24.62
For Heated Enclosure, Add	109.11	
22 11 19 00-0408 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	877.37	24.62
For Heated Enclosure, Add	167.27	
22 11 19 00-0409 EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,259.11	46.15
For Heated Enclosure, Add	436.44	
22 11 19 00-0410 EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,072.62	46.15
For Heated Enclosure, Add	599.14	
22 11 19 00-0411 EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,057.23	46.15
For Heated Enclosure, Add	396.06	
22 11 19 00-0412 EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,324.00	46.15
For Heated Enclosure, Add	449.41	
22 11 19 00-0413 EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,618.16	46.15
For Heated Enclosure, Add	708.25	
22 11 19 00-0414 Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0390)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0415 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	4,674.62	200.58
For Heated Enclosure, Add	651.05	
For One 24" Fluorescent Light Fixture, Add	413.60	
For Two 24" Fluorescent Light Fixture, Add	740.13	
22 11 19 00-0416 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	5,139.66	200.58
For Heated Enclosure, Add	720.80	
For One 24" Fluorescent Light Fixture, Add	413.60	
For Two 24" Fluorescent Light Fixture, Add	740.13	



Plumbing			22
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0417	EA	53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	3,667.48	184.61	
		For Heated Enclosure, Add	503.97		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0418	EA	53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,011.14	184.61	
		For Heated Enclosure, Add	555.52		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0419	EA	90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	4,686.89	246.15	
		For Heated Enclosure, Add	641.50		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0420	EA	102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	5,237.24	246.15	
		For Heated Enclosure, Add	724.05		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0421	EA	90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	5,237.24	246.15	
		For Heated Enclosure, Add	724.05		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0422	EA	102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure	5,770.77	246.15	
		For Heated Enclosure, Add	804.08		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0423	EA	62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	4,352.02	215.38	
		For Heated Enclosure, Add	598.96		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0424	EA	62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure	5,091.84	246.15	
		For Heated Enclosure, Add	702.24		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0425	EA	105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	5,924.58	246.15	
		For Heated Enclosure, Add	827.15		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0426	EA	125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure	6,498.16	261.54	
		For Heated Enclosure, Add	909.34		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0427	EA	105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	6,674.05	284.16	
		For Heated Enclosure, Add	930.07		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0428	EA	125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure	7,389.25	300.87	
		For Heated Enclosure, Add	1,033.17		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0429	EA	105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure	7,624.51	276.92	
		For Heated Enclosure, Add	1,074.45		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0430	EA	72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	5,564.08	246.15	
		For Heated Enclosure, Add	773.07		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0431	EA	72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	5,920.97	246.15	
		For Heated Enclosure, Add	826.61		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0432	EA	72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	6,689.22	261.54	
		For Heated Enclosure, Add	938.00		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0433	EA	72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	8,082.33	276.92	
		For Heated Enclosure, Add	1,143.12		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0434	EA	118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	7,074.15	123.08	
		For Heated Enclosure, Add	991.89		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0435	EA	142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	8,475.67	123.08	
		For Heated Enclosure, Add	1,198.28		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0436	EA	118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	8,200.50	184.61	
		For Heated Enclosure, Add	1,157.00		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		
22 11 19 00-0437	EA	142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	9,505.10	184.61	
		For Heated Enclosure, Add	1,345.00		
		For One 24" Fluorescent Light Fixture, Add	413.60		
		For Two 24" Fluorescent Light Fixture, Add	740.13		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0438 EA 142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	8,776.49 1,239.55 413.60 740.13	184.61
22 11 19 00-0439 EA 172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,244.50 1,452.06 413.60 740.13	215.38
22 11 19 00-0440 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,295.78 1,452.06 413.60 740.13	184.61
22 11 19 00-0441 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	12,191.58 1,728.74 413.60 740.13	184.61
22 11 19 00-0442 Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0443 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0442)		
22 11 19 00-0444 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	52.14	11.14
22 11 19 00-0445 EA 3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	61.45	12.26
22 11 19 00-0446 EA 3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	16.91	8.36
22 11 19 00-0447 Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0442)		
22 11 19 00-0448 EA 3/4" Hose Valve With Screwed Ends; Chicago Faucets #387-CP	114.40	34.10
22 11 19 00-0449 Antisiphon Freezeless Wall Faucet (22 11 19 00-0442)		
22 11 19 00-0450 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet	119.06	27.86
22 11 19 00-0451 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet	129.63	30.87
22 11 19 00-0452 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet	137.39	32.65
22 11 19 00-0453 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet	145.15	34.99
22 11 19 00-0454 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet	153.02	37.10
22 11 19 00-0455 Escutcheons (22 11 19)		
22 11 19 00-0456 Brass Escutcheons (22 11 19 00-0455)		
22 11 19 00-0457 Shallow Brass Escutcheons (22 11 19 00-0456)		
22 11 19 00-0458 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	11.64	2.78
22 11 19 00-0459 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	12.47	2.78
22 11 19 00-0460 Deep Bell Brass Escutcheons (22 11 19 00-0456)		
22 11 19 00-0461 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	13.55	3.12
22 11 19 00-0462 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	13.57	3.12
22 11 19 00-0463 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0456)		
22 11 19 00-0464 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	14.03	2.78
22 11 19 00-0465 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	14.15	2.78
22 11 19 00-0466 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	14.32	2.78
22 11 19 00-0467 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	14.94	2.78
22 11 19 00-0468 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	15.29	3.35
22 11 19 00-0469 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	15.89	3.35
22 11 19 00-0470 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	16.63	3.68
22 11 19 00-0471 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	17.50	3.90
22 11 19 00-0472 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.02	4.46
22 11 19 00-0473 Plastic Escutcheons (22 11 19 00-0455)		
22 11 19 00-0474 Split-Ring White Plastic Escutcheons (22 11 19 00-0473)		
22 11 19 00-0475 EA 3/8" IPS, Split-Ring White Plastic Escutcheon	5.79	2.78
22 11 19 00-0476 EA 1/2" IPS, Split-Ring White Plastic Escutcheon	5.79	2.78
22 11 19 00-0477 EA 3/4" IPS, Split-Ring White Plastic Escutcheon	6.46	3.11
22 11 19 00-0478 EA 1" IPS, Split-Ring White Plastic Escutcheon	7.03	3.33
22 11 19 00-0479 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	7.60	3.67
22 11 19 00-0480 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	8.18	3.89
22 11 19 00-0481 EA 2" IPS, Split-Ring White Plastic Escutcheon	9.33	4.44
22 11 19 00-0482 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	10.37	4.79
22 11 19 00-0483 EA 3" IPS, Split-Ring White Plastic Escutcheon	11.41	5.01
22 11 19 00-0484 EA 4" IPS, Split-Ring White Plastic Escutcheon	13.01	5.56
22 11 19 00-0485 Chrome Plate Plastic Escutcheons (22 11 19 00-0473)		
22 11 19 00-0486 EA 1/2" IPS, Chrome Plate Plastic Escutcheon	6.20	2.78
22 11 19 00-0487 EA 3/4" IPS, Chrome Plate Plastic Escutcheon	6.81	3.11



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0488 EA 1" IPS, Chrome Plate Plastic Escutcheon.....	7.48	3.33
22 11 19 00-0489 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	8.15	3.67
22 11 19 00-0490 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	8.72	3.89
22 11 19 00-0491 EA 2" IPS, Chrome Plate Plastic Escutcheon.....	10.26	4.44
22 11 19 00-0492 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	12.04	4.79
22 11 19 00-0493 EA 3" IPS, Chrome Plate Plastic Escutcheon.....	12.64	5.01
22 11 19 00-0494 EA 4" IPS, Chrome Plate Plastic Escutcheon.....	13.86	5.56
22 11 19 00-0495 Stainless Steel Escutcheons (22 11 19 00-0455)		
22 11 19 00-0496 Shallow Stainless Steel Escutcheons (22 11 19 00-0495)		
22 11 19 00-0497 EA 3/8" IPS, Shallow Stainless Steel Escutcheon.....	12.30	2.78
22 11 19 00-0498 EA 1/2" IPS, Shallow Stainless Steel Escutcheon.....	12.30	2.78
22 11 19 00-0499 EA 3/4" IPS, Shallow Stainless Steel Escutcheon.....	16.29	3.12
22 11 19 00-0500 Chrome Plated Steel Escutcheons (22 11 19 00-0455)		
22 11 19 00-0501 Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0500)		
22 11 19 00-0502 EA 1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	5.91	2.78
22 11 19 00-0503 EA 3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.47	3.11
22 11 19 00-0504 EA 1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.09	3.33
22 11 19 00-0505 EA 1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.64	3.67
22 11 19 00-0506 EA 1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.20	3.89
22 11 19 00-0507 EA 2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.42	4.44
22 11 19 00-0508 EA 2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	12.35	4.79
22 11 19 00-0509 EA 3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	13.09	5.01
22 11 19 00-0510 EA 3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	15.31	5.34
22 11 19 00-0511 EA 4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	14.37	5.56
22 11 19 00-0512 EA 5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	17.56	6.12
22 11 19 00-0513 EA 6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.05	6.67
22 11 19 00-0514 Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0500)		
22 11 19 00-0515 EA 3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	7.90	2.78
22 11 19 00-0516 EA 1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	7.90	2.78
22 11 19 00-0517 EA 3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	8.54	3.11
22 11 19 00-0518 EA 1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	9.33	3.33
22 11 19 00-0519 EA 1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.15	3.67
22 11 19 00-0520 EA 1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.81	3.89
22 11 19 00-0521 EA 2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	12.67	4.44
22 11 19 00-0522 EA 2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	14.21	4.79
22 11 19 00-0523 EA 3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	16.63	5.01
22 11 19 00-0524 EA 3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	19.63	5.34
22 11 19 00-0525 EA 4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	20.10	5.56
22 11 19 00-0526 EA 5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	30.34	6.12
22 11 19 00-0527 EA 6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	31.94	6.67
22 11 19 00-0528 Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0500)		
22 11 19 00-0529 EA 3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.01	3.12
22 11 19 00-0530 EA 1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.95	3.12
22 11 19 00-0531 EA 3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	6.83	3.12
22 11 19 00-0532 EA 1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.42	3.35
22 11 19 00-0533 EA 1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.06	3.68
22 11 19 00-0534 EA 1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.78	3.90
22 11 19 00-0535 Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0500)		
22 11 19 00-0536 EA 3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.60	2.78
22 11 19 00-0537 EA 1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.60	2.78
22 11 19 00-0538 EA 3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.65	2.78
22 11 19 00-0539 EA 1" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.07	3.35
22 11 19 00-0540 EA 1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon	7.67	3.68
22 11 19 00-0541 EA 1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon	8.39	3.90
22 11 19 00-0542 EA 2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.54	4.46
22 11 19 00-0543 Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0544 EA 8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	214.47	33.35
22 11 19 00-0545 EA 8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	235.58	33.35
22 11 19 00-0546 EA 8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	267.24	33.35
22 11 19 00-0547 EA 12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	268.36	44.47
22 11 19 00-0548 EA 12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	300.03	44.47
22 11 19 00-0549 EA 12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	309.53	44.47
22 11 19 00-0550 EA 8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	248.25	33.35
22 11 19 00-0551 EA 8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	294.69	33.35
22 11 19 00-0552 EA 8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	335.85	33.35
22 11 19 00-0553 EA 12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	327.47	44.47

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0554 EA 12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	368.64	44.47
22 11 19 00-0555 EA 12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	384.47	44.47
22 11 23 Domestic Water Pumps (22 11)		
22 11 23 13 Domestic Water Packaged Booster Pumps And Tanks (22 11 23)		
Note: Includes motor starter and controls.		
22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	8,237.20	328.20
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	8,632.48	441.01
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	9,084.37	553.84
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	9,507.96	666.65
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	10,554.32	779.48
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	11,742.22	892.29
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	12,590.43	1,005.12
22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	22,480.76	1,326.22
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	26,946.93	1,409.11
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	31,431.14	1,492.00
22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	29,360.19	1,409.11
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	36,373.36	1,492.00
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	45,073.55	1,657.77
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	56,911.34	1,823.55
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	68,749.12	1,989.32
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	80,036.17	2,238.00
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	91,323.24	2,486.66
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	102,610.29	2,735.32
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	114,104.57	3,066.88
22 11 23 13-0023 Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)		
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0024 EA 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1).....	22,254.05	1,326.93
22 11 23 13-0025 EA 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2).....	23,226.16	1,326.93
22 11 23 13-0026 EA 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3).....	24,615.20	1,326.93
22 11 23 13-0027 EA 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4).....	26,617.48	1,326.93
22 11 23 13-0028 EA 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5).....	25,247.91	1,409.86
22 11 23 13-0029 EA 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....	26,995.81	1,409.86
22 11 23 13-0030 EA 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....	29,369.63	1,409.86
22 11 23 13-0031 EA 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....	31,299.09	1,409.86
22 11 23 13-0032 EA 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....	27,550.40	1,492.80
22 11 23 13-0033 EA 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....	29,276.15	1,492.80
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....	33,135.05	1,492.80
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....	39,611.60	1,492.80
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....	29,033.38	1,492.80
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....	32,553.47	1,492.80
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....	40,301.90	1,492.80
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....	40,078.13	1,492.80
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....	47,706.08	1,658.66
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....	33,192.95	1,658.66
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19).....	40,248.97	1,658.66
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....	40,026.26	1,658.66



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0044	EA		440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....	48,052.28	1,658.66
22 11 23 13-0045	EA		440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....	57,869.49	1,658.66
22 11 23 13-0046	EA		60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....	27,860.86	1,326.93
22 11 23 13-0047			Variable Speed Triplex Domestic Water Pressure Booster Skid ^(22 11 23 13) Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048	EA		60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	27,860.86	1,326.93
22 11 23 13-0049	EA		120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	31,046.36	1,326.93
22 11 23 13-0050	EA		60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	33,794.88	1,326.93
22 11 23 13-0051	EA		180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	31,253.70	1,409.86
22 11 23 13-0052	EA		180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	33,983.22	1,409.86
22 11 23 13-0053	EA		240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	31,891.22	1,409.86
22 11 23 13-0054	EA		240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	34,237.60	1,409.86
22 11 23 13-0055	EA		240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	37,464.26	1,409.86
22 11 23 13-0056	EA		240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	40,138.90	1,409.86
22 11 23 13-0057	EA		300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	32,252.66	1,492.80
22 11 23 13-0058	EA		300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	34,599.03	1,492.80
22 11 23 13-0059	EA		300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	37,824.64	1,492.80
22 11 23 13-0060	EA		300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	40,499.28	1,492.80
22 11 23 13-0061	EA		360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	34,891.41	1,492.80
22 11 23 13-0062	EA		360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	37,144.90	1,492.80
22 11 23 13-0063	EA		360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	42,712.66	1,492.80
22 11 23 13-0064	EA		360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	51,798.40	1,492.80
22 11 23 13-0065	EA		480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	35,766.26	1,658.66
22 11 23 13-0066	EA		480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	38,020.81	1,658.66
22 11 23 13-0067	EA		480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	43,588.57	1,658.66
22 11 23 13-0068	EA		480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	52,673.26	1,658.66
22 11 23 13-0069	EA		540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	37,655.61	1,658.66
22 11 23 13-0070	EA		540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	42,715.68	1,658.66
22 11 23 13-0071	EA		540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	53,707.65	1,658.66
22 11 23 13-0072	EA		540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	54,772.65	1,658.66
22 11 23 13-0073	EA		540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27).....	67,532.59	1,658.66
22 11 23 13-0074	EA		660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28).....	42,765.00	1,990.40
22 11 23 13-0075	EA		660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29).....	51,104.51	1,990.40
22 11 23 13-0076	EA		660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30).....	54,266.78	1,990.40
22 11 23 13-0077	EA		660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31).....	65,114.16	1,990.40
22 11 23 13-0078	EA		660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32).....	80,293.30	1,990.40
22 11 23 23			Domestic-Water In-Line Pumps ^(22 11 23)		
22 11 23 23-0001			Bronze In-Line Centrifugal Domestic Water Booster Pumps ^(22 11 23 23) Note: ODP motor.		
22 11 23 23-0002	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B).....	699.31	184.61
22 11 23 23-0003	EA		1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	712.97	184.61
22 11 23 23-0004	EA		1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....	741.46	188.20

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 23-0005 EA 1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	805.95	195.89
22 11 23 23-0006 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	1,301.34	203.15
22 11 23 23-0007 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	1,375.05	203.15
22 11 23 23-0008 EA 1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	1,977.77	223.68
22 11 23 23-0009 EA 1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	2,074.47	245.73
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	2,485.32	270.36
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	2,560.69	297.54
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	2,801.73	326.79
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	3,909.84	359.63
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	4,468.17	377.06
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	704.33	184.61
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	1,051.48	184.61
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,058.90	188.20
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,078.25	192.30
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,085.41	195.89
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75)	1,109.48	203.15
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	1,330.76	223.68
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	1,698.84	270.36
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	1,802.27	297.54
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	2,083.05	326.79
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	2,727.73	359.63
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	3,146.36	377.06
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	2,987.04	396.04
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,220.49	435.34
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,538.21	461.71
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	4,392.77	513.01
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	4,728.54	615.71
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	5,967.11	718.53
22 12 Facility Potable-Water Storage Tanks (22 10)		
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	24,970.54	7,315.37
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	27,604.26	7,315.37
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	48,330.28	11,289.17
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	62,426.90	14,630.73
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	28,872.35	7,315.37
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	38,041.62	7,315.37
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	57,098.95	11,289.17
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	80,381.33	14,630.73
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)		
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)		
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)		
22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A)	2,012.58	410.25
22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	2,495.57	512.81
22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A)	4,416.53	564.09
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A)	4,880.00	615.37
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A)	9,418.26	666.65
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A)	8,186.53	717.93
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A)	13,823.39	769.21
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A)	12,794.04	820.50
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A)	13,889.11	871.78
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A)	16,491.39	923.06
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	1,751.62	410.25
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,230.57	512.81
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	4,001.50	564.09
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	4,905.69	615.37



Plumbing			22
Plumbing Piping			22 10
Facility Potable-Water Storage Tanks			22 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	4,212.29	615.37
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	6,373.26	666.65
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	6,895.82	717.93
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S)	6,580.82	717.93
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	6,035.92	717.93
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	8,153.39	769.21
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	8,837.98	820.50
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A)	10,220.80	871.78
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	18,824.58	923.06
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank	495.78	230.77
For Saddle Assembly, Add	536.48	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank	580.06	269.23
For Saddle Assembly, Add	536.48	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank	680.84	307.69
For Saddle Assembly, Add	592.58	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank	811.32	346.14
For Saddle Assembly, Add	811.48	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank	953.90	384.61
For Two Tie Down Bands, Add	321.70	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,172.18	465.90
For Two Tie Down Bands, Add	337.10	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,668.72	543.55
For Three Tie Down Bands, Add	555.16	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank	2,318.76	621.19
For Three Tie Down Bands, Add	558.46	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	2,852.39	698.85
For Four Tie Down Bands, Add	753.41	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	3,318.32	776.50
For Four Tie Down Bands, Add	977.81	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	4,603.85	854.14
For Four Tie Down Bands, Add	1,224.21	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank	5,301.39	931.80
For Four Tie Down Bands, Add	1,307.81	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	7,562.52	1,242.40
For Four Tie Down Bands, Add	1,453.01	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank	9,584.22	1,242.40
For Five Tie Down Bands, Add	2,217.75	
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)		
22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank	576.34	307.69
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank	666.88	326.92
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank	724.42	346.14
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank	856.00	384.61
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank	990.46	461.53
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,165.62	538.46
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank	1,492.66	621.19
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	1,917.52	776.50
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,516.19	931.80
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,218.25	1,087.09
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	4,539.62	1,242.40
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	5,990.78	1,397.69
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	6,774.24	1,552.99
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	7,463.12	1,708.30
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	8,541.38	1,863.59
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	9,600.95	2,018.89
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	11,705.51	2,174.19
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	14,011.64	2,484.79
22 13 Facility Sanitary Sewerage (22 10)		
22 13 13 Facility Sanitary Sewers (22 13)		
22 13 13 00-0001 Fixture Rough-In (22 13 13)		
Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0345 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.		
22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)		
Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0003	EA	Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	770.48	
22 13 13 00-0004	EA	Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	926.55	
22 13 13 00-0005	EA	Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	718.20	
22 13 13 00-0006	EA	Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	447.04	
22 13 13 00-0007	EA	Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	525.30	
22 13 13 00-0008	EA	Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	693.79	
22 13 13 00-0009	EA	Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	718.51	
22 13 13 00-0010	EA	Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	437.70	
22 13 13 00-0011	EA	Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	718.20	
22 13 13 00-0012	EA	Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	752.56	
22 13 13 00-0013	EA	Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	701.26	
22 13 13 00-0014	EA	Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	770.48	
22 13 13 00-0015	EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	1,197.84	
22 13 13 00-0016	EA	Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	744.18	
22 13 13 00-0017		Double Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001) Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0018	EA	Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	966.65	
22 13 13 00-0019	EA	Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	1,242.13	
22 13 13 00-0020	EA	Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	837.96	
22 13 13 00-0021	EA	Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	514.28	
22 13 13 00-0022	EA	Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	724.84	
22 13 13 00-0023	EA	Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	761.84	
22 13 13 00-0024	EA	Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	494.02	
22 13 13 00-0025	EA	Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	848.20	
22 13 13 00-0026	EA	Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	781.85	
22 13 13 00-0027	EA	Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	756.23	
22 13 13 00-0028	EA	Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.	966.65	
22 13 13 00-0029		Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001) Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0030	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	482.85	
22 13 13 00-0031	EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	621.06	
22 13 13 00-0032	EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.	419.49	
22 13 13 00-0033	EA	Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	257.65	
22 13 13 00-0034	EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	362.44	
22 13 13 00-0035	EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	380.90	
22 13 13 00-0036	EA	Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	272.64	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet.....	423.59	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	390.93	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	378.61	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0040 EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	475.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0041 Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 13 00-0001)		
Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0042 EA Floor Mounted Water Closet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	441.67	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0043 EA Wall Mounted Water Closet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	401.67	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0044 EA Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	434.52	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0045 EA Wall Mounted Urinal, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	246.15	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0046 EA Wall Mounted Lavatory, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	287.01	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0047 EA Countertop Kitchen Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	412.26	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0048 EA Bathtub, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	400.39	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0049 EA Free Standing Water Cooler, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	248.69	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0050 EA Floor Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	434.52	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0051 EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	473.37	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0052 EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	428.39	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0053 EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	441.54	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0054 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	673.45	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0055 EA Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	422.82	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0056 Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 00-0001)		
Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0057 EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	505.83	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	518.71	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	442.86	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.		
22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	255.17	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	408.72	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.		
22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	421.40	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.		
22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	256.25	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.		
22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	451.97	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	477.30	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0066	EA	Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....454.41 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0067	EA	Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....505.83 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0068		Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 13 00-0001) Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....252.50 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0070	EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....258.85 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0071	EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....221.72 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0072	EA	Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....127.63 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0073	EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....204.34 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0074	EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....210.45 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0075	EA	Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....128.12 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0076	EA	Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....225.89 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0077	EA	Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....238.68 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0078	EA	Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....227.64 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0079	EA	Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....245.70 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 16		Sanitary Waste And Vent Piping ^(22 13 16 00-0001)		
22 13 16 00-0001		Cast Iron Soil Pipe Assemblies ^(22 13 16 00-0001)		
22 13 16 00-0002		Underground Bell And Spigot Cast Iron Soil Pipe Assemblies ^(22 13 16 00-0002) Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003	LF	2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....25.55 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	6.46	
		<i>For Work In Restricted Working Space, Add</i> .....4.74		
22 13 16 00-0004	LF	3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....36.02 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	9.74	
		<i>For Work In Restricted Working Space, Add</i> .....6.43		
22 13 16 00-0005	LF	4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....46.65 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	12.41	
		<i>For Work In Restricted Working Space, Add</i> .....8.27		
22 13 16 00-0006	LF	5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....52.08 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	14.66	
		<i>For Work In Restricted Working Space, Add</i> .....8.25		
22 13 16 00-0007	LF	6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....60.48 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	15.98	
		<i>For Work In Restricted Working Space, Add</i> .....9.16		
22 13 16 00-0008	LF	8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....93.92 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	22.81	
		<i>For Work In Restricted Working Space, Add</i> .....12.91		
22 13 16 00-0009	LF	10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....132.19 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	22.81	
		<i>For Work In Restricted Working Space, Add</i> .....14.62		
22 13 16 00-0010		Aboveground No Hub Cast Iron Soil Pipe Assemblies ^(22 13 16 00-0001) Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		



	Plumbing	22	
	Plumbing Piping	22 10	22
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	22.38 5.14	6.15
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	23.89 5.54	6.56
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	31.06 7.11	9.54
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	38.34 8.76	12.41
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	60.52 13.73	14.38
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	66.24 14.68	15.70
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	107.63 23.55	22.61
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	105.00 17.15	25.69
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.57 3.28 0.49 2.93	6.46
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.83 4.70 0.73 4.40	9.74
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.19 6.11 0.93 5.60	12.41
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.45 8.62 1.10 6.58	14.66
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.91 10.50 1.20 7.18	15.98
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.08 16.33 1.71 10.26	22.81
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.21 27.18 1.92 11.55	25.69
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.33 39.48 2.57 15.40	34.26
22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.99 57.71 3.08 18.48	41.09
22 13 16 00-0030			Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031			Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.32 12.32 2.21 13.23	29.44

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep.....	126.89	37.03
			For Extra Heavy Fittings, Add	25.01	
			For Above Ground Cast Iron Pipe Installation, Add	2.77	
			For Work In Restricted Working Space, Add	16.63	
22 13 16 00-0034	EA		4" Bell And Spigot Cast Iron Long Sweep.....	169.02	49.23
			For Extra Heavy Fittings, Add	33.33	
			For Above Ground Cast Iron Pipe Installation, Add	3.69	
			For Work In Restricted Working Space, Add	22.14	
22 13 16 00-0035	EA		6" Bell And Spigot Cast Iron Long Sweep.....	253.32	62.02
			For Extra Heavy Fittings, Add	56.12	
			For Above Ground Cast Iron Pipe Installation, Add	4.65	
			For Work In Restricted Working Space, Add	27.89	
22 13 16 00-0036	EA		8" Bell And Spigot Cast Iron Long Sweep.....	477.90	80.25
			For Extra Heavy Fittings, Add	125.17	
			For Above Ground Cast Iron Pipe Installation, Add	6.01	
			For Work In Restricted Working Space, Add	36.08	
22 13 16 00-0037	EA		10" Bell And Spigot Cast Iron Long Sweep.....	647.53	98.73
			For Extra Heavy Fittings, Add	174.82	
			For Above Ground Cast Iron Pipe Installation, Add	7.40	
			For Work In Restricted Working Space, Add	44.41	
22 13 16 00-0038	EA		12" Bell And Spigot Cast Iron Long Sweep.....	985.36	137.79
			For Extra Heavy Fittings, Add	272.56	
			For Above Ground Cast Iron Pipe Installation, Add	10.33	
			For Work In Restricted Working Space, Add	61.98	
22 13 16 00-0039	EA		15" Bell And Spigot Cast Iron Long Sweep.....	1,793.85	191.88
			For Extra Heavy Fittings, Add	527.16	
			For Above Ground Cast Iron Pipe Installation, Add	14.38	
			For Work In Restricted Working Space, Add	86.30	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)					
22 13 16 00-0041	EA		2" Bell And Spigot Cast Iron Short Sweep.....	70.03	29.44
			For Extra Heavy Fittings, Add	9.07	
			For Above Ground Cast Iron Pipe Installation, Add	2.21	
			For Work In Restricted Working Space, Add	13.23	
22 13 16 00-0042	EA		3" Bell And Spigot Cast Iron Short Sweep.....	111.29	37.03
			For Extra Heavy Fittings, Add	19.55	
			For Above Ground Cast Iron Pipe Installation, Add	2.77	
			For Work In Restricted Working Space, Add	16.63	
22 13 16 00-0043	EA		4" Bell And Spigot Cast Iron Short Sweep.....	151.48	49.23
			For Extra Heavy Fittings, Add	27.19	
			For Above Ground Cast Iron Pipe Installation, Add	3.69	
			For Work In Restricted Working Space, Add	22.14	
22 13 16 00-0044	EA		5" Bell And Spigot Cast Iron Short Sweep.....	213.34	52.73
			For Extra Heavy Fittings, Add	47.02	
			For Above Ground Cast Iron Pipe Installation, Add	3.95	
			For Work In Restricted Working Space, Add	23.70	
22 13 16 00-0045	EA		6" Bell And Spigot Cast Iron Short Sweep.....	256.66	62.02
			For Extra Heavy Fittings, Add	57.29	
			For Above Ground Cast Iron Pipe Installation, Add	4.65	
			For Work In Restricted Working Space, Add	27.89	
22 13 16 00-0046	EA		8" Bell And Spigot Cast Iron Short Sweep.....	410.65	80.25
			For Extra Heavy Fittings, Add	101.63	
			For Above Ground Cast Iron Pipe Installation, Add	6.01	
			For Work In Restricted Working Space, Add	36.08	
22 13 16 00-0047	EA		10" Bell And Spigot Cast Iron Short Sweep.....	590.16	98.73
			For Extra Heavy Fittings, Add	154.74	
			For Above Ground Cast Iron Pipe Installation, Add	7.40	
			For Work In Restricted Working Space, Add	44.41	
22 13 16 00-0048	EA		12" Bell And Spigot Cast Iron Short Sweep.....	963.97	137.79
			For Extra Heavy Fittings, Add	265.08	
			For Above Ground Cast Iron Pipe Installation, Add	10.33	
			For Work In Restricted Working Space, Add	61.98	
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)					
22 13 16 00-0050	EA		2" Bell And Spigot Cast Iron 1/4 Bend.....	64.72	29.33
			For Extra Heavy Fittings, Add	7.25	
			For Above Ground Cast Iron Pipe Installation, Add	2.20	
			For Work In Restricted Working Space, Add	13.21	
22 13 16 00-0051	EA		3" Bell And Spigot Cast Iron 1/4 Bend.....	90.91	33.02
			For Extra Heavy Fittings, Add	14.48	
			For Above Ground Cast Iron Pipe Installation, Add	2.48	
			For Work In Restricted Working Space, Add	14.87	
22 13 16 00-0052	EA		4" Bell And Spigot Cast Iron 1/4 Bend.....	128.04	44.00
			For Extra Heavy Fittings, Add	21.73	
			For Above Ground Cast Iron Pipe Installation, Add	3.30	
			For Work In Restricted Working Space, Add	19.79	
22 13 16 00-0053	EA		5" Bell And Spigot Cast Iron 1/4 Bend.....	153.93	47.08
			For Extra Heavy Fittings, Add	29.19	
			For Above Ground Cast Iron Pipe Installation, Add	3.53	
			For Work In Restricted Working Space, Add	21.16	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	185.05 35.16 4.23 25.38	56.39
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	360.03 87.24 5.54 33.23	73.90
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	520.11 134.98 6.72 40.33	89.68
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	678.75 182.01 7.94 47.62	105.85
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,676.14 499.06 12.51 75.08	166.95
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	60.63 5.78 2.21 13.23	29.44
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	89.54 11.94 2.77 16.63	37.03
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	125.53 18.11 3.69 22.14	49.23
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	153.55 22.83 4.42 26.49	58.92
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	176.23 27.19 4.93 29.56	65.70
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	327.10 68.03 6.64 39.82	88.52
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	449.28 99.93 8.19 49.13	109.22
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	706.31 172.90 10.62 63.69	141.65
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,294.74 365.57 12.51 75.08	166.95
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	114.52 5.57 4.93 29.59	65.75
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	137.74 10.42 5.40 32.39	72.00
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	181.06 13.87 7.07 42.43	94.36
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	218.10 23.11 7.60 45.62	101.41
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	269.70 31.31 9.01 54.07	120.20

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0075	EA		8" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	461.77 76.78 12.12 72.72	161.66
22 13 16 00-0076	EA		10" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	623.13 121.87 13.75 82.48	183.40
22 13 16 00-0077	EA		12" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	894.87 196.06 16.73 100.41	223.24
22 13 16 00-0078	EA		15" Bell And Spigot Cast Iron Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,334.72 335.72 18.78 112.65	250.48
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)					
22 13 16 00-0080	EA		3" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	160.22 20.01 5.15 30.92	68.71
22 13 16 00-0081	EA		4" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	195.78 23.94 6.37 38.21	84.92
22 13 16 00-0082	EA		4" x 3" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	213.90 29.15 6.53 39.19	87.08
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	300.21 48.58 8.07 48.42	107.71
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	307.57 50.09 8.22 49.34	109.68
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	323.17 51.71 8.77 52.63	117.00
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	452.33 90.11 9.74 58.46	130.00
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	470.93 95.31 9.93 59.58	132.50
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	484.02 96.59 10.40 62.42	138.76
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	566.57 117.29 11.57 69.44	154.35
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	673.26 159.74 10.84 65.06	144.63
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	700.66 165.99 11.32 67.92	150.98
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	767.48 181.03 12.51 75.08	166.95
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	990.54 253.78 13.27 79.64	177.06
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,016.65 262.92 13.27 79.64	177.06
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,062.34 271.13 14.38 86.30	191.88



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,234.19 326.31 15.09 90.56	201.39
22 13 16 00-0097 EA 12" x 10" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,479.52 409.01 15.55 93.27	207.36
22 13 16 00-0098 EA 15" x 4" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,364.66 725.03 14.66 87.95	195.53
22 13 16 00-0099 EA 15" x 6" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,472.10 754.18 15.87 95.19	211.60
22 13 16 00-0100 EA 15" x 8" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,525.41 768.06 16.55 99.29	220.74
22 13 16 00-0101 EA 15" x 10" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,585.50 785.18 17.11 102.64	228.25
22 13 16 00-0102 EA 15" x 12" Bell And Spigot Cast Iron Reducing Wye For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,655.03 802.53 18.10 108.63	241.52
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	121.32 7.95 4.93 29.59	65.75
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	141.93 11.89 5.40 32.39	72.00
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	188.36 16.43 7.07 42.43	94.36
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	244.48 29.76 7.97 47.84	106.39
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	305.46 37.68 9.89 59.34	131.95
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	523.06 91.74 13.05 78.29	174.07
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	742.03 139.96 17.11 102.64	228.25
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	987.89 191.80 21.99 131.97	293.39
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	128.53 8.92 5.15 30.92	68.71
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	174.17 16.38 6.37 38.21	84.92
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	185.38 19.17 6.53 39.19	87.08
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	259.31 34.27 8.07 48.42	107.71

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	268.74	109.68
For Extra Heavy Fittings, Add	36.49	
For Above Ground Cast Iron Pipe Installation, Add	8.22	
For Work In Restricted Working Space, Add	49.34	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	285.28	117.00
For Extra Heavy Fittings, Add	38.44	
For Above Ground Cast Iron Pipe Installation, Add	8.77	
For Work In Restricted Working Space, Add	52.63	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	376.36	130.00
For Extra Heavy Fittings, Add	63.52	
For Above Ground Cast Iron Pipe Installation, Add	9.74	
For Work In Restricted Working Space, Add	58.46	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	389.54	138.76
For Extra Heavy Fittings, Add	63.52	
For Above Ground Cast Iron Pipe Installation, Add	10.40	
For Work In Restricted Working Space, Add	62.42	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	480.59	154.35
For Extra Heavy Fittings, Add	87.20	
For Above Ground Cast Iron Pipe Installation, Add	11.57	
For Work In Restricted Working Space, Add	69.44	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye	180.68	78.66
For Extra Heavy Fittings, Add	21.98	
For Above Ground Cast Iron Pipe Installation, Add	5.89	
For Work In Restricted Working Space, Add	35.37	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye	254.07	99.18
For Extra Heavy Fittings, Add	36.90	
For Above Ground Cast Iron Pipe Installation, Add	7.43	
For Work In Restricted Working Space, Add	44.59	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye	339.48	125.43
For Extra Heavy Fittings, Add	52.98	
For Above Ground Cast Iron Pipe Installation, Add	9.41	
For Work In Restricted Working Space, Add	56.44	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye	612.66	184.67
For Extra Heavy Fittings, Add	117.52	
For Above Ground Cast Iron Pipe Installation, Add	13.84	
For Work In Restricted Working Space, Add	83.06	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye	1,144.88	218.53
For Extra Heavy Fittings, Add	286.06	
For Above Ground Cast Iron Pipe Installation, Add	16.38	
For Work In Restricted Working Space, Add	98.27	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye	1,492.55	244.51
For Extra Heavy Fittings, Add	394.09	
For Above Ground Cast Iron Pipe Installation, Add	18.33	
For Work In Restricted Working Space, Add	109.97	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye	1,102.75	293.39
For Extra Heavy Fittings, Add	232.00	
For Above Ground Cast Iron Pipe Installation, Add	21.99	
For Work In Restricted Working Space, Add	131.97	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye	2,825.18	307.92
For Extra Heavy Fittings, Add	827.15	
For Above Ground Cast Iron Pipe Installation, Add	23.10	
For Work In Restricted Working Space, Add	138.57	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	176.56	93.02
For Extra Heavy Fittings, Add	12.97	
For Above Ground Cast Iron Pipe Installation, Add	6.98	
For Work In Restricted Working Space, Add	41.85	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	204.44	106.87
For Extra Heavy Fittings, Add	15.47	
For Above Ground Cast Iron Pipe Installation, Add	8.01	
For Work In Restricted Working Space, Add	48.08	
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	219.33	112.10
For Extra Heavy Fittings, Add	17.92	
For Above Ground Cast Iron Pipe Installation, Add	8.41	
For Work In Restricted Working Space, Add	50.44	
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	268.43	128.09
For Extra Heavy Fittings, Add	26.74	
For Above Ground Cast Iron Pipe Installation, Add	9.60	
For Work In Restricted Working Space, Add	57.61	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	283.03	132.98
For Extra Heavy Fittings, Add	29.29	
For Above Ground Cast Iron Pipe Installation, Add	9.97	
For Work In Restricted Working Space, Add	59.81	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	321.32	145.02
For Extra Heavy Fittings, Add	36.37	
For Above Ground Cast Iron Pipe Installation, Add	10.87	
For Work In Restricted Working Space, Add	65.22	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	483.11	168.39
			For Extra Heavy Fittings, Add	80.75	
			For Above Ground Cast Iron Pipe Installation, Add	12.62	
			For Work In Restricted Working Space, Add	75.72	
22 13 16 00-0139	EA		8" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	534.93	199.28
			For Extra Heavy Fittings, Add	82.64	
			For Above Ground Cast Iron Pipe Installation, Add	14.94	
			For Work In Restricted Working Space, Add	89.65	
22 13 16 00-0140	EA		10" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	515.10	180.13
			For Extra Heavy Fittings, Add	85.75	
			For Above Ground Cast Iron Pipe Installation, Add	13.51	
			For Work In Restricted Working Space, Add	81.03	
22 13 16 00-0141	EA		10" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	601.23	211.60
			For Extra Heavy Fittings, Add	99.37	
			For Above Ground Cast Iron Pipe Installation, Add	15.87	
			For Work In Restricted Working Space, Add	95.19	
22 13 16 00-0142	EA		10" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	724.40	230.65
			For Extra Heavy Fittings, Add	132.50	
			For Above Ground Cast Iron Pipe Installation, Add	17.29	
			For Work In Restricted Working Space, Add	103.75	
22 13 16 00-0143	EA		12" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	740.11	235.95
			For Extra Heavy Fittings, Add	135.22	
			For Above Ground Cast Iron Pipe Installation, Add	17.69	
			For Work In Restricted Working Space, Add	106.13	
22 13 16 00-0144	EA		12" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	921.52	256.73
			For Extra Heavy Fittings, Add	187.82	
			For Above Ground Cast Iron Pipe Installation, Add	19.25	
			For Work In Restricted Working Space, Add	115.47	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)					
22 13 16 00-0146	EA		2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	158.18	78.66
			For Extra Heavy Fittings, Add	14.10	
			For Above Ground Cast Iron Pipe Installation, Add	5.89	
			For Work In Restricted Working Space, Add	35.37	
22 13 16 00-0147	EA		3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	212.65	105.22
			For Extra Heavy Fittings, Add	19.20	
			For Above Ground Cast Iron Pipe Installation, Add	7.89	
			For Work In Restricted Working Space, Add	47.34	
22 13 16 00-0148	EA		4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	274.44	131.58
			For Extra Heavy Fittings, Add	27.02	
			For Above Ground Cast Iron Pipe Installation, Add	9.86	
			For Work In Restricted Working Space, Add	59.17	
22 13 16 00-0149	EA		6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	548.78	206.39
			For Extra Heavy Fittings, Add	83.77	
			For Above Ground Cast Iron Pipe Installation, Add	15.47	
			For Work In Restricted Working Space, Add	92.83	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)					
22 13 16 00-0151	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	205.11	94.36
			For Extra Heavy Fittings, Add	22.29	
			For Above Ground Cast Iron Pipe Installation, Add	7.07	
			For Work In Restricted Working Space, Add	42.43	
22 13 16 00-0152	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	240.48	106.87
			For Extra Heavy Fittings, Add	28.08	
			For Above Ground Cast Iron Pipe Installation, Add	8.01	
			For Work In Restricted Working Space, Add	48.08	
22 13 16 00-0153	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	269.37	118.98
			For Extra Heavy Fittings, Add	31.87	
			For Above Ground Cast Iron Pipe Installation, Add	8.92	
			For Work In Restricted Working Space, Add	53.49	
22 13 16 00-0154	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	486.34	153.94
			For Extra Heavy Fittings, Add	89.43	
			For Above Ground Cast Iron Pipe Installation, Add	11.54	
			For Work In Restricted Working Space, Add	69.25	
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)					
22 13 16 00-0156	EA		2" Bell And Spigot Cast Iron Sanitary Tee	130.10	65.85
			For Extra Heavy Fittings, Add	10.99	
			For Above Ground Cast Iron Pipe Installation, Add	4.94	
			For Work In Restricted Working Space, Add	29.61	
22 13 16 00-0157	EA		3" Bell And Spigot Cast Iron Sanitary Tee	146.30	72.00
			For Extra Heavy Fittings, Add	13.42	
			For Above Ground Cast Iron Pipe Installation, Add	5.40	
			For Work In Restricted Working Space, Add	32.39	
22 13 16 00-0158	EA		4" Bell And Spigot Cast Iron Sanitary Tee	219.56	88.20
			For Extra Heavy Fittings, Add	30.54	
			For Above Ground Cast Iron Pipe Installation, Add	6.62	
			For Work In Restricted Working Space, Add	39.69	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	296.02 54.37 7.03 42.21	93.79
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	355.08 65.24 8.43 50.60	112.50
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	712.24 171.77 11.07 66.44	147.71
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,047.42 272.06 13.51 81.03	180.13
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,531.53 424.98 15.87 95.19	211.60
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	163.20 21.05 5.15 30.92	68.71
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	192.72 25.22 6.03 36.20	80.51
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	199.66 27.65 6.03 36.20	80.51
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	290.95 45.34 8.07 48.42	107.71
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	301.62 48.00 8.22 49.34	109.68
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	326.14 52.75 8.77 52.63	117.00
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	523.35 110.35 10.40 62.42	138.76
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	646.21 145.17 11.57 69.44	154.35
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	116.96 6.42 4.93 29.59	65.75
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	139.89 11.18 5.40 32.39	72.00
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	184.69 15.14 7.07 42.43	94.36
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	223.99 22.59 7.97 47.84	106.39
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	280.94 29.10 9.89 59.34	131.95
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	454.45 67.73 13.05 78.29	174.07
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	119.11 7.17 4.93 29.59	65.75
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	131.13 8.11 5.40 32.39	72.00
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	169.98 9.99 7.07 42.43	94.36
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	120.47 7.65 4.93 29.59	65.75
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	133.70 9.01 5.40 32.39	72.00
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	176.46 12.26 7.07 42.43	94.36
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	67.04 4.06 2.77 16.63	37.03
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	85.39 4.25 3.66 21.98	48.82
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	89.55 5.52 3.69 22.14	49.23
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	108.34 8.02 4.27 25.63	56.95
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	112.31 9.01 4.33 25.97	57.71
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	115.54 9.53 4.42 26.49	58.92
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	141.31 17.59 4.55 27.31	60.72
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	163.18 17.78 5.62 33.71	74.96
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	167.46 18.25 5.77 34.59	76.88
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	173.39 18.59 6.01 36.08	80.25
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	211.06 26.60 6.75 40.52	90.06
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	222.34 28.16 7.09 42.56	94.59
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer..... For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	235.78 30.71 7.40 44.41	98.73

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	284.47	107.01
For Extra Heavy Fittings, Add	43.44	
For Above Ground Cast Iron Pipe Installation, Add	8.02	
For Work In Restricted Working Space, Add	48.11	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer	320.48	125.19
For Extra Heavy Fittings, Add	46.45	
For Above Ground Cast Iron Pipe Installation, Add	9.39	
For Work In Restricted Working Space, Add	56.33	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer	350.49	142.60
For Extra Heavy Fittings, Add	47.83	
For Above Ground Cast Iron Pipe Installation, Add	10.69	
For Work In Restricted Working Space, Add	64.15	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer	388.30	164.26
For Extra Heavy Fittings, Add	49.71	
For Above Ground Cast Iron Pipe Installation, Add	12.31	
For Work In Restricted Working Space, Add	73.88	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer	480.21	164.26
For Extra Heavy Fittings, Add	81.88	
For Above Ground Cast Iron Pipe Installation, Add	12.31	
For Work In Restricted Working Space, Add	73.88	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer	512.19	177.06
For Extra Heavy Fittings, Add	86.36	
For Above Ground Cast Iron Pipe Installation, Add	13.27	
For Work In Restricted Working Space, Add	79.64	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer	534.60	186.67
For Extra Heavy Fittings, Add	89.13	
For Above Ground Cast Iron Pipe Installation, Add	14.00	
For Work In Restricted Working Space, Add	83.98	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer	564.71	199.28
For Extra Heavy Fittings, Add	93.06	
For Above Ground Cast Iron Pipe Installation, Add	14.94	
For Work In Restricted Working Space, Add	89.65	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap	63.94	29.44
For Extra Heavy Fittings, Add	6.94	
For Above Ground Cast Iron Pipe Installation, Add	2.21	
For Work In Restricted Working Space, Add	13.23	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap	84.29	37.03
For Extra Heavy Fittings, Add	10.10	
For Above Ground Cast Iron Pipe Installation, Add	2.77	
For Work In Restricted Working Space, Add	16.63	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap	114.21	49.23
For Extra Heavy Fittings, Add	14.15	
For Above Ground Cast Iron Pipe Installation, Add	3.69	
For Work In Restricted Working Space, Add	22.14	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap	165.66	52.73
For Extra Heavy Fittings, Add	30.33	
For Above Ground Cast Iron Pipe Installation, Add	3.95	
For Work In Restricted Working Space, Add	23.70	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap	217.77	62.02
For Extra Heavy Fittings, Add	43.68	
For Above Ground Cast Iron Pipe Installation, Add	4.65	
For Work In Restricted Working Space, Add	27.89	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap	453.41	80.25
For Extra Heavy Fittings, Add	116.60	
For Above Ground Cast Iron Pipe Installation, Add	6.01	
For Work In Restricted Working Space, Add	36.08	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap	507.94	98.73
For Extra Heavy Fittings, Add	125.97	
For Above Ground Cast Iron Pipe Installation, Add	7.40	
For Work In Restricted Working Space, Add	44.41	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap	71.47	29.44
For Extra Heavy Fittings, Add	9.58	
For Above Ground Cast Iron Pipe Installation, Add	2.21	
For Work In Restricted Working Space, Add	13.23	
22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap	99.10	37.03
For Extra Heavy Fittings, Add	15.28	
For Above Ground Cast Iron Pipe Installation, Add	2.77	
For Work In Restricted Working Space, Add	16.63	
22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap	141.74	49.23
For Extra Heavy Fittings, Add	23.78	
For Above Ground Cast Iron Pipe Installation, Add	3.69	
For Work In Restricted Working Space, Add	22.14	
22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap	218.49	58.92
For Extra Heavy Fittings, Add	45.56	
For Above Ground Cast Iron Pipe Installation, Add	4.42	
For Work In Restricted Working Space, Add	26.49	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap For Extra Heavy Fittings, Add For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	233.58 47.26 4.93 29.56	65.70
22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	167.19 5.40 32.39	71.07
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	222.06 7.07 42.43	93.43
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	283.09 7.74 46.42	102.34
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	521.00 8.77 52.63	115.98
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,579.96 10.40 62.42	137.22
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,712.89 11.57 69.44	153.10
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	217.84 7.43 44.59	98.16
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	291.92 9.41 56.44	123.89
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	588.49 10.87 65.22	143.32
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	686.36 13.15 78.87	173.49
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,711.77 12.62 75.72	166.37
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	1,886.13 14.94 89.65	197.55
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	2,490.31 17.29 103.75	227.96
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	3,418.65 19.96 119.78	263.57
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	6,543.16 23.10 138.62	304.84
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	114.78 2.20 13.20	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	154.15 2.47 14.83	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	181.39 3.31 19.87	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	222.21 3.85 23.08	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	269.67 4.65 27.88	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	489.13 5.87 35.23	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	12.26 0.61 3.68	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	13.38 0.67 4.01	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	16.71 0.84 5.01	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	20.06 1.00 6.02	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	26.74 1.34 8.02	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	31.20 1.56 9.36	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	36.77 1.84 11.03	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe..... For Above Ground Cast Iron Pipe Installation, Add For Work In Restricted Working Space, Add	42.35 2.12 12.71	
22 13 16 00-0257 Joint Material (22 13 16 00-0019) Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	1.55	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	6.87	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	0.72	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	0.99	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	1.23	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	2.04	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	4.49	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	6.89	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	8.78	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	10.43	
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268) Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	12.51 0.46 2.77	6.15
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	13.35 0.50 2.97	6.56
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	19.11 0.72 4.31	9.54
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	24.81 0.93 5.60	12.41
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	30.15 1.08 6.47	14.38
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	34.12 1.18 7.05	15.70
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	50.84 1.69 10.15	22.61
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	66.68 1.92 11.55	25.69
22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	51.82 2.18 13.09	29.12
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	52.03 2.18 13.09	29.12
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	60.54 2.50 15.01	33.34
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	81.83 3.31 19.85	44.10



		Plumbing	22
		Plumbing Piping	22 10
		Facility Sanitary Sewerage	22 13
		22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	99.96 3.56 21.34	47.46
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	118.89 4.24 25.47	56.58
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	202.92 5.50 32.99	73.32
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	69.20 2.50 15.01	33.34
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	98.34 3.31 19.85	44.10
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	50.29 2.18 13.09	29.12
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	59.16 2.50 15.01	33.34
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	81.11 3.31 19.85	44.10
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	100.23 3.56 21.34	47.46
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	114.66 4.24 25.47	56.58
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	190.15 5.50 32.99	73.32
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep For Below Ground Installation, Add For Work In Restricted Working Space, Add	294.99 7.70 46.19	102.67
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	47.01 2.09 12.56	27.90
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	49.09 2.18 13.09	29.12
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	57.22 2.50 15.01	33.34
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	76.82 3.31 19.85	44.10
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	94.90 3.56 21.34	47.46
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	111.25 4.24 25.47	56.58
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	180.20 5.50 32.99	73.32
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	45.91 2.09 12.56	27.90
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	47.78 2.18 13.09	29.12
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	55.93 2.50 15.01	33.34
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	73.92 3.31 19.85	44.10
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	115.37 4.88 29.30	65.12

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	175.32 6.41 38.46	85.54
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	246.65 7.89 47.34	105.22
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	72.94 3.29 19.73	43.90
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	96.46 4.46 26.75	59.48
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	107.62 4.88 29.30	65.12
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	144.35 6.41 38.46	85.54
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	173.42 6.93 41.55	92.38
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	205.86 8.22 49.34	109.68
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	317.19 11.00 65.99	146.74
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	454.94 12.22 73.31	163.01
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	92.96 4.26 25.54	56.82
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	105.51 4.88 29.30	65.12
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	118.00 5.40 32.39	72.00
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	133.40 6.00 35.99	80.00
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	162.29 7.00 41.99	93.33
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	171.36 7.31 43.86	97.55
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	198.43 8.54 51.26	114.00
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	228.66 8.65 51.90	115.38
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	258.83 9.50 57.02	126.83
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	348.20 10.13 60.77	135.10
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	369.20 10.84 65.06	144.63
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	414.48 11.58 69.46	154.44
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	83.82 3.83 22.96	51.08
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	96.75 4.46 26.75	59.48
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	109.83 4.88 29.30	65.12



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	150.61 6.41 38.46	85.54
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	253.64 9.86 59.17	131.58
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	394.61 12.66 75.93	168.82
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	468.45 15.30 91.79	204.10
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	97.11 4.46 26.75	59.48
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	106.62 4.88 29.30	65.12
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	120.21 5.40 32.39	72.00
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	135.55 6.00 35.99	80.00
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	168.73 7.00 41.99	93.33
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	182.62 7.31 43.86	97.55
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	208.29 8.54 51.26	114.00
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	247.09 8.65 51.90	115.38
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	300.94 9.50 57.02	126.83
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	121.02 5.54 33.26	73.95
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	153.67 6.75 40.49	90.05
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	186.09 7.38 44.27	98.46
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	273.57 10.36 62.16	138.25
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	459.66 14.00 83.98	186.67
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	138.88 6.14 36.85	81.95
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	163.03 7.07 42.44	94.36
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	178.55 7.71 46.27	102.87
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye For Below Ground Installation, Add For Work In Restricted Working Space, Add	236.56 9.14 54.82	121.89
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	150.99 6.66 39.96	88.82
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend For Below Ground Installation, Add For Work In Restricted Working Space, Add	175.12 7.38 44.27	98.46

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0368	EA	4" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.98 9.77 58.61	130.36
22 13 16 00-0369	EA	6" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	363.09 15.08 90.50	201.23
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)				
22 13 16 00-0371	EA	3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.23 5.73 34.38	76.41
22 13 16 00-0372	EA	4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.98 6.66 39.96	88.82
22 13 16 00-0373	EA	4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.04 7.27 43.64	97.02
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)				
22 13 16 00-0375	EA	1-1/2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.33 3.23 19.35	42.98
22 13 16 00-0376	EA	2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.82 4.46 26.75	59.48
22 13 16 00-0377	EA	3" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.80 4.88 29.30	65.12
22 13 16 00-0378	EA	4" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.50 6.41 38.46	85.54
22 13 16 00-0379	EA	5" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.81 6.93 41.55	92.38
22 13 16 00-0380	EA	6" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.59 8.22 49.34	109.68
22 13 16 00-0381	EA	8" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	340.05 11.00 65.99	146.74
22 13 16 00-0382	EA	2" x 1-1/2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.38 3.64 21.82	48.52
22 13 16 00-0383	EA	3" x 1-1/2" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.60 4.26 25.54	56.82
22 13 16 00-0384 No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)				
22 13 16 00-0385	EA	3" x 2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.66 4.46 26.75	59.48
22 13 16 00-0386	EA	3" x 4" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.40 4.46 26.75	59.48
22 13 16 00-0387	EA	4" x 2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.54 6.03 36.20	80.51
22 13 16 00-0388	EA	4" x 3" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.67 6.03 36.20	80.51
22 13 16 00-0389	EA	5" x 2" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.82 6.58 39.47	87.78
22 13 16 00-0390	EA	5" x 3" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.78 6.58 39.47	87.78
22 13 16 00-0391	EA	5" x 4" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.14 6.58 39.47	87.78
22 13 16 00-0392	EA	6" x 4" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.47 6.85 41.12	91.45
22 13 16 00-0393	EA	8" x 6" No Hub Cast Iron Reducing Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	274.99 9.28 55.65	123.75
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)				
22 13 16 00-0395	EA	2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.30 2.18 13.09	29.12



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	59.23 2.50 15.01	33.34
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	75.57 3.31 19.85	44.10
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	49.97 2.18 13.09	29.12
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	60.20 2.50 15.01	33.34
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	84.05 3.31 19.85	44.10
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	132.55 4.88 29.30	65.12
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	179.27 6.41 38.46	85.54
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee For Below Ground Installation, Add For Work In Restricted Working Space, Add	242.28 9.74 58.46	129.94
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	46.33 2.18 13.09	29.12
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	54.26 2.50 15.01	33.34
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	74.19 3.31 19.85	44.10
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	112.66 4.88 29.30	65.12
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug For Below Ground Installation, Add For Work In Restricted Working Space, Add	148.80 6.41 38.46	85.54
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	95.40 4.31 25.85	57.43
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	100.71 4.46 26.75	59.48
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	115.82 4.88 29.30	65.12
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	162.32 6.41 38.46	85.54
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	130.89 5.73 34.37	76.41
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	141.00 5.90 35.38	78.66
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross For Below Ground Installation, Add For Work In Restricted Working Space, Add	150.93 6.16 36.93	82.15
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer For Below Ground Installation, Add For Work In Restricted Working Space, Add	93.05 4.46 26.75	59.48

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer126.57		80.51
For Below Ground Installation, Add	6.03	
For Work In Restricted Working Space, Add	36.20	
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer .....126.75		80.51
For Below Ground Installation, Add	6.03	
For Work In Restricted Working Space, Add	36.20	
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer .....140.23		87.78
For Below Ground Installation, Add	6.58	
For Work In Restricted Working Space, Add	39.47	
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer .....141.43		87.78
For Below Ground Installation, Add	6.58	
For Work In Restricted Working Space, Add	39.47	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer .....141.90		87.78
For Below Ground Installation, Add	6.58	
For Work In Restricted Working Space, Add	39.47	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer .....161.14		97.55
For Below Ground Installation, Add	7.31	
For Work In Restricted Working Space, Add	43.86	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer .....161.32		97.55
For Below Ground Installation, Add	7.31	
For Work In Restricted Working Space, Add	43.86	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer .....161.86		97.55
For Below Ground Installation, Add	7.31	
For Work In Restricted Working Space, Add	43.86	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer .....225.19		136.93
For Below Ground Installation, Add	10.26	
For Work In Restricted Working Space, Add	61.58	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer .....226.57		136.93
For Below Ground Installation, Add	10.26	
For Work In Restricted Working Space, Add	61.58	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer .....228.79		136.93
For Below Ground Installation, Add	10.26	
For Work In Restricted Working Space, Add	61.58	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer .....231.09		136.93
For Below Ground Installation, Add	10.26	
For Work In Restricted Working Space, Add	61.58	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer .....231.37		136.93
For Below Ground Installation, Add	10.26	
For Work In Restricted Working Space, Add	61.58	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer .....259.28		144.44
For Below Ground Installation, Add	10.83	
For Work In Restricted Working Space, Add	64.95	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer .....274.06		150.78
For Below Ground Installation, Add	11.31	
For Work In Restricted Working Space, Add	67.84	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer .....302.79		163.68
For Below Ground Installation, Add	12.27	
For Work In Restricted Working Space, Add	73.61	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug.....44.08		27.90
For Below Ground Installation, Add	2.09	
For Work In Restricted Working Space, Add	12.56	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug.....45.76		29.12
For Below Ground Installation, Add	2.18	
For Work In Restricted Working Space, Add	13.09	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug.....53.81		33.34
For Below Ground Installation, Add	2.50	
For Work In Restricted Working Space, Add	15.01	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug.....71.23		44.10
For Below Ground Installation, Add	3.31	
For Work In Restricted Working Space, Add	19.85	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug.....81.77		48.87
For Below Ground Installation, Add	3.62	
For Work In Restricted Working Space, Add	21.71	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug.....94.38		56.58
For Below Ground Installation, Add	4.24	
For Work In Restricted Working Space, Add	25.47	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug.....139.92		73.32
For Below Ground Installation, Add	5.50	
For Work In Restricted Working Space, Add	32.99	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug.....161.49		79.00
For Below Ground Installation, Add	5.92	
For Work In Restricted Working Space, Add	35.53	
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap.....51.48		29.12
For Below Ground Installation, Add	2.18	
For Work In Restricted Working Space, Add	13.09	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap.....67.91		33.34
For Below Ground Installation, Add	2.50	
For Work In Restricted Working Space, Add	15.01	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	97.23 3.31 19.85	44.10
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	142.75 3.58 21.50	47.84
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	156.67 4.28 25.66	57.04
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	74.16 2.77 16.63	37.03
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	103.65 3.69 22.14	49.23
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	145.35 4.87 29.23	65.02
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	78.60 3.31 19.85	44.10
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	81.18 3.31 19.85	44.10
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	114.84 3.31 19.85	44.10
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	62.18 2.77 16.63	37.03
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter..... For Below Ground Installation, Add For Work In Restricted Working Space, Add	64.26 2.77 16.63	37.03
22 13 16 00-0466 No Hub Couplings (22 13 16 00-0278) Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	5.09 0.66 1.37	
22 13 16 00-0468 EA 2" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	5.09 0.66 1.37	
22 13 16 00-0469 EA 3" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	6.04 0.79 1.63	
22 13 16 00-0470 EA 4" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	7.17 0.93 1.94	
22 13 16 00-0471 EA 5" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	16.59 2.16 4.48	
22 13 16 00-0472 EA 6" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	18.23 2.37 4.92	
22 13 16 00-0473 EA 8" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	34.34 4.46 9.27	
22 13 16 00-0474 EA 10" No Hub Coupling..... For Medium Duty (Fernco MD-2000), Add For Heavy Duty (Fernco HD-4000), Add	47.30 6.15 12.77	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	6.04	
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling.....	9.37	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling.....	13.07	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling.....	11.14	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts (22 13 16 00-0278) Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	14.89	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	15.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	16.14	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	18.83	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	35.55	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	48.80	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	85.50	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	130.65	
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub	10.03	
For Work In Restricted Working Space, Add	3.01	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub	12.26	
For Work In Restricted Working Space, Add	3.68	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub	13.38	
For Work In Restricted Working Space, Add	4.01	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub	16.71	
For Work In Restricted Working Space, Add	5.01	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub	20.06	
For Work In Restricted Working Space, Add	6.02	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub	26.74	
For Work In Restricted Working Space, Add	8.02	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub	31.20	
For Work In Restricted Working Space, Add	9.36	
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe (22 13 16) See CSI section 22 11 16 00-0414 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	11.33	4.82
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	13.69	5.39
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe	20.11	6.64
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe	42.60	9.20
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe	54.60	10.37
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe	129.13	11.92
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe	165.55	18.47
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation. See CSI section 33 31 11 00-0002 for underground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0504) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	20.92	4.30
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	5.90	
22 13 16 00-0507 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	23.17	5.13
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	6.53	
22 13 16 00-0508 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	29.59	7.39
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	8.12	
22 13 16 00-0509 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	33.24	8.00
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	9.02	
22 13 16 00-0510 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	47.66	10.25
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	11.99	
22 13 16 00-0511 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	63.22	13.64
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	15.20	
22 13 16 00-0512 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	85.63	18.26
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	19.81	
22 13 16 00-0513 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: Excludes fittings or hangers.		
22 13 16 00-0514 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0515 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	6.93	4.30
For Work In Restricted Working Space, Add	1.92	
22 13 16 00-0516 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	8.37	5.13
For Work In Restricted Working Space, Add	2.30	
22 13 16 00-0517 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	12.41	7.39
For Work In Restricted Working Space, Add	3.31	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0518 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	13.91 3.59	8.00
22 13 16 00-0519 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	17.52 4.22	9.40
22 13 16 00-0520 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	24.70 5.64	12.50
22 13 16 00-0521 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	34.11 7.52	16.73
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) (22 13 16 00-0513) Note: Excludes fittings or hangers.		
22 13 16 00-0523 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	6.82 1.92	4.30
22 13 16 00-0524 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	8.24 2.30	5.13
22 13 16 00-0525 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	12.18 3.31	7.39
22 13 16 00-0526 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	13.62 3.59	8.00
22 13 16 00-0527 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	16.97 4.22	9.40
22 13 16 00-0528 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	23.32 5.64	12.50
22 13 16 00-0529 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... For Work In Restricted Working Space, Add	32.61 7.52	16.73
22 13 16 00-0530 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)		
22 13 16 00-0531 Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0532 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	26.37 7.70	17.13
22 13 16 00-0533 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	33.74 9.85	21.85
22 13 16 00-0534 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	46.95 13.23	29.33
22 13 16 00-0535 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	57.33 15.38	34.15
22 13 16 00-0536 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	103.45 20.00	44.41
22 13 16 00-0537 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	152.76 26.92	59.80
22 13 16 00-0538 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... For Work In Restricted Working Space, Add	202.73 35.90	79.69
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0530)		
22 13 16 00-0540 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	28.40 7.70	17.13
22 13 16 00-0541 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	34.90 9.85	21.85
22 13 16 00-0542 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	49.95 13.23	29.33
22 13 16 00-0543 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	62.83 15.38	34.15
22 13 16 00-0544 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	92.82 20.00	44.41
22 13 16 00-0545 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	138.79 26.92	59.80
22 13 16 00-0546 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... For Work In Restricted Working Space, Add	202.48 35.90	79.69
22 13 16 00-0547 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0548 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	26.54 7.70	17.13
22 13 16 00-0549 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	33.72 9.85	21.85
22 13 16 00-0550 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	46.70 13.23	29.33
22 13 16 00-0551 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	56.10 15.38	34.15
22 13 16 00-0552 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	100.34 20.00	44.41
22 13 16 00-0553 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	145.52 26.92	59.80
22 13 16 00-0554 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... For Work In Restricted Working Space, Add	181.45 35.90	79.69
22 13 16 00-0555 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0530)		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0556	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	39.75 11.54	25.65
22 13 16 00-0557	EA	2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	51.08 14.77	32.82
22 13 16 00-0558	EA	3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	71.07 19.85	44.10
22 13 16 00-0559	EA	4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	86.31 23.08	51.28
22 13 16 00-0560	EA	6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	154.57 30.00	66.56
22 13 16 00-0561	EA	8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	205.15 40.38	89.64
22 13 16 00-0562 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0530)				
22 13 16 00-0563	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	44.38 12.62	28.00
22 13 16 00-0564	EA	2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	48.86 13.69	30.36
22 13 16 00-0565	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	47.49 13.69	30.36
22 13 16 00-0566	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	60.69 17.08	37.95
22 13 16 00-0567	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	64.10 18.15	40.30
22 13 16 00-0568	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	69.16 19.23	42.66
22 13 16 00-0569	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	80.41 20.31	45.13
22 13 16 00-0570	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	90.63 22.00	48.82
22 13 16 00-0571	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	145.08 27.69	61.43
22 13 16 00-0572	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	299.08 34.61	76.81
22 13 16 00-0573	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	312.70 36.92	81.95
22 13 16 00-0574 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0530)				
22 13 16 00-0575	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	55.17 15.38	34.15
22 13 16 00-0576	EA	2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	71.34 19.69	43.69
22 13 16 00-0577	EA	3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	104.18 26.46	58.77
22 13 16 00-0578	EA	4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	128.26 30.77	68.31
22 13 16 00-0579 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0530)				
22 13 16 00-0580	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	63.61 17.54	38.98
22 13 16 00-0581	EA	3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	81.85 20.93	46.46
22 13 16 00-0582	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	91.27 23.08	51.28
22 13 16 00-0583	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	115.67 25.23	56.00
22 13 16 00-0584	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	127.82 28.61	63.48
22 13 16 00-0585 Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0530)				
22 13 16 00-0586	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	30.68 8.77	19.48
22 13 16 00-0587	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	39.48 10.46	23.18
22 13 16 00-0588	EA	3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	42.32 11.54	25.65
22 13 16 00-0589	EA	4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	49.69 12.62	28.00
22 13 16 00-0590	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	55.68 14.31	31.80
22 13 16 00-0591	EA	6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	95.75 16.61	36.92
22 13 16 00-0592	EA	6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	91.39 17.69	39.28
22 13 16 00-0593	EA	8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	159.48 21.15	46.98
22 13 16 00-0594	EA	8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	151.40 23.46	52.10



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0595	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....	192.80	62.05
			<i>For Work In Restricted Working Space, Add</i>	27.95	
22 13 16 00-0596	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers.....	179.44	69.75
			<i>For Work In Restricted Working Space, Add</i>	31.41	
22 13 16 00-0597 Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0530)					
22 13 16 00-0598	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps.....	40.99	25.65
			<i>For Work In Restricted Working Space, Add</i>	11.54	
22 13 16 00-0599	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps.....	52.68	32.82
			<i>For Work In Restricted Working Space, Add</i>	14.77	
22 13 16 00-0600	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps.....	83.31	44.10
			<i>For Work In Restricted Working Space, Add</i>	19.85	
22 13 16 00-0601	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps.....	117.81	51.28
			<i>For Work In Restricted Working Space, Add</i>	23.08	
22 13 16 00-0602	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps.....	172.27	66.56
			<i>For Work In Restricted Working Space, Add</i>	30.00	
22 13 16 00-0603 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)					
22 13 16 00-0604	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges.....	56.13	34.15
			<i>For Work In Restricted Working Space, Add</i>	15.38	
22 13 16 00-0605	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges.....	51.08	31.80
			<i>For Work In Restricted Working Space, Add</i>	14.31	
22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)					
22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes.....	41.05	25.65
			<i>For Work In Restricted Working Space, Add</i>	11.54	
22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV Wyes.....	51.83	32.82
			<i>For Work In Restricted Working Space, Add</i>	14.77	
22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV Wyes.....	72.03	44.10
			<i>For Work In Restricted Working Space, Add</i>	19.85	
22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV Wyes.....	87.88	51.28
			<i>For Work In Restricted Working Space, Add</i>	23.08	
22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV Wyes.....	148.68	66.56
			<i>For Work In Restricted Working Space, Add</i>	30.00	
22 13 16 00-0612	EA		8" Polyvinyl Chloride (PVC) DWV Wyes.....	193.96	89.64
			<i>For Work In Restricted Working Space, Add</i>	40.38	
22 13 16 00-0613	EA		10" Polyvinyl Chloride (PVC) DWV Wyes.....	257.36	119.49
			<i>For Work In Restricted Working Space, Add</i>	53.84	
22 13 16 00-0614 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)					
22 13 16 00-0615	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	46.66	28.00
			<i>For Work In Restricted Working Space, Add</i>	12.62	
22 13 16 00-0616	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	50.21	30.36
			<i>For Work In Restricted Working Space, Add</i>	13.69	
22 13 16 00-0617	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	64.10	37.95
			<i>For Work In Restricted Working Space, Add</i>	17.08	
22 13 16 00-0618	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	65.05	40.30
			<i>For Work In Restricted Working Space, Add</i>	18.15	
22 13 16 00-0619	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	75.51	42.66
			<i>For Work In Restricted Working Space, Add</i>	19.23	
22 13 16 00-0620	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	76.49	45.13
			<i>For Work In Restricted Working Space, Add</i>	20.31	
22 13 16 00-0621	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	83.61	48.82
			<i>For Work In Restricted Working Space, Add</i>	22.00	
22 13 16 00-0622	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	132.88	59.07
			<i>For Work In Restricted Working Space, Add</i>	26.62	
22 13 16 00-0623	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	148.78	61.43
			<i>For Work In Restricted Working Space, Add</i>	27.69	
22 13 16 00-0624	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	166.25	76.81
			<i>For Work In Restricted Working Space, Add</i>	34.61	
22 13 16 00-0625	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	189.64	81.95
			<i>For Work In Restricted Working Space, Add</i>	36.92	
22 13 16 00-0626	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	202.60	96.72
			<i>For Work In Restricted Working Space, Add</i>	43.59	
22 13 16 00-0627	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	227.34	101.85
			<i>For Work In Restricted Working Space, Add</i>	45.90	
22 13 16 00-0628	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes.....	252.48	109.54
			<i>For Work In Restricted Working Space, Add</i>	49.36	
22 13 16 00-0629 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)					
22 13 16 00-0630	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	56.78	34.15
			<i>For Work In Restricted Working Space, Add</i>	15.38	
22 13 16 00-0631	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	72.71	43.69
			<i>For Work In Restricted Working Space, Add</i>	19.69	
22 13 16 00-0632	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	106.48	58.77
			<i>For Work In Restricted Working Space, Add</i>	26.46	
22 13 16 00-0633	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	139.61	68.31
			<i>For Work In Restricted Working Space, Add</i>	30.77	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0634	EA	6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	217.25 40.00	88.82
22 13 16 00-0635	EA	8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	274.20 53.85	119.59
22 13 16 00-0636	EA	10" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	390.21 71.79	159.38
22 13 16 00-0637 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)				
22 13 16 00-0638	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	64.92 17.54	38.98
22 13 16 00-0639	EA	3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	85.79 20.93	46.46
22 13 16 00-0640	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	90.54 23.08	51.28
22 13 16 00-0641	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	106.31 25.23	56.00
22 13 16 00-0642	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	124.72 28.61	63.48
22 13 16 00-0643	EA	6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	166.14 35.39	78.56
22 13 16 00-0644	EA	8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	197.13 42.31	93.95
22 13 16 00-0645	EA	8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	230.17 46.92	104.20
22 13 16 00-0646	EA	10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	248.29 51.28	113.84
22 13 16 00-0647	EA	10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	290.39 55.89	124.10
22 13 16 00-0648	EA	10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	336.88 62.82	139.48
22 13 16 00-0649 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0530)				
22 13 16 00-0650	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	42.66 11.54	25.65
22 13 16 00-0651	EA	2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	54.34 14.77	32.82
22 13 16 00-0652	EA	3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	79.59 19.85	44.10
22 13 16 00-0653	EA	4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	104.84 23.08	51.28
22 13 16 00-0654 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0530)				
22 13 16 00-0655	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	56.23 13.69	30.36
22 13 16 00-0656	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	75.32 17.08	37.95
22 13 16 00-0657	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	72.01 18.15	40.30
22 13 16 00-0658	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	93.27 20.31	45.13
22 13 16 00-0659	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	101.05 22.00	48.82
22 13 16 00-0660 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0530)				
22 13 16 00-0661	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	58.03 15.38	34.15
22 13 16 00-0662	EA	2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	72.85 19.69	43.69
22 13 16 00-0663	EA	3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	100.74 26.46	58.77
22 13 16 00-0664	EA	4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	168.61 30.77	68.31
22 13 16 00-0665	EA	6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	373.11 40.00	88.82
22 13 16 00-0666 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0530)				
22 13 16 00-0667	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	80.56 17.54	38.98
22 13 16 00-0668	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	114.37 23.08	51.28
22 13 16 00-0669	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	153.89 25.23	56.00
22 13 16 00-0670	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	156.45 28.61	63.48



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0671 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... For Work In Restricted Working Space, Add	274.60 35.39	78.56
22 13 16 00-0672 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0530)		
22 13 16 00-0673 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	61.53 14.77	32.82
22 13 16 00-0674 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	89.65 19.85	44.10
22 13 16 00-0675 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	117.81 23.08	51.28
22 13 16 00-0676 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	218.79 30.00	66.56
22 13 16 00-0677 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	282.51 40.38	89.64
22 13 16 00-0678 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	375.66 53.84	119.49
22 13 16 00-0679 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0530)		
22 13 16 00-0680 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	27.78 7.70	17.13
22 13 16 00-0681 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	36.25 9.85	21.85
22 13 16 00-0682 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	49.38 13.23	29.33
22 13 16 00-0683 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	63.69 15.38	34.15
22 13 16 00-0684 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	100.73 20.00	44.41
22 13 16 00-0685 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	172.81 26.92	59.80
22 13 16 00-0686 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	277.61 35.88	79.69
22 13 16 00-0687 Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0530)		
22 13 16 00-0688 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	26.28 7.70	17.13
22 13 16 00-0689 EA 2" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	33.53 9.85	21.85
22 13 16 00-0690 EA 3" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	45.91 13.23	29.33
22 13 16 00-0691 EA 4" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	54.26 15.38	34.15
22 13 16 00-0692 EA 6" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	83.09 20.00	44.41
22 13 16 00-0693 EA 8" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	137.20 26.92	59.80
22 13 16 00-0694 EA 10" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	193.21 35.90	79.69
22 13 16 00-0695 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0530)		
22 13 16 00-0696 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	13.46 3.85	8.51
22 13 16 00-0697 EA 2" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	17.98 4.92	10.98
22 13 16 00-0698 EA 3" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	26.40 6.62	14.67
22 13 16 00-0699 EA 4" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	35.62 7.70	17.13
22 13 16 00-0700 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: In place piping.		
22 13 16 00-0701 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	7.52	
22 13 16 00-0702 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	8.27	
22 13 16 00-0703 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	10.53	
22 13 16 00-0704 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	14.21	
22 13 16 00-0705 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	20.30	
22 13 16 00-0706 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	27.08	
22 13 16 00-0707 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	33.10	
22 13 16 00-0708 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation.		
22 13 16 00-0709 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0708) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0710	LF	1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	20.92 5.90	4.30
22 13 16 00-0711	LF	2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	23.17 6.53	5.13
22 13 16 00-0712	LF	3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	29.59 8.12	7.39
22 13 16 00-0713	LF	4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	33.24 9.02	8.00
22 13 16 00-0714	LF	6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	47.66 11.99	10.25
22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0708)				
Note: Excludes fittings or hangers.				
22 13 16 00-0716	LF	1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	6.86 1.92	4.30
22 13 16 00-0717	LF	2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	8.29 2.30	5.13
22 13 16 00-0718	LF	3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.29 3.31	7.39
22 13 16 00-0719	LF	4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	13.76 3.59	8.00
22 13 16 00-0720	LF	6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	17.73 4.22	9.40
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) (22 13 16 00-0708)				
22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends (22 13 16 00-0721)				
22 13 16 00-0723	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	27.57 7.70	17.13
22 13 16 00-0724	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	35.56 9.85	21.85
22 13 16 00-0725	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.57 13.23	29.33
22 13 16 00-0726	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	67.87 15.38	34.15
22 13 16 00-0727	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	128.57 20.00	44.41
22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends (22 13 16 00-0721)				
22 13 16 00-0729	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	30.23 7.70	17.13
22 13 16 00-0730	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	38.16 9.85	21.85
22 13 16 00-0731	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	59.02 13.23	29.33
22 13 16 00-0732	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	80.71 15.38	34.15
22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends (22 13 16 00-0721)				
22 13 16 00-0734	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	27.93 7.70	17.13
22 13 16 00-0735	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	35.31 9.85	21.85
22 13 16 00-0736	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	51.24 13.23	29.33
22 13 16 00-0737	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	65.42 15.38	34.15
22 13 16 00-0738	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	131.14 20.00	44.41
22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0721)				
22 13 16 00-0740	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	41.74 11.54	25.65
22 13 16 00-0741	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	54.15 14.77	32.82



		Plumbing	22	22
		Plumbing Piping	22 10	
		Facility Sanitary Sewerage	22 13	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0742	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	78.69 19.85	44.10
22 13 16 00-0743	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	101.03 23.08	51.28
22 13 16 00-0744	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	230.64 30.00	66.56
22 13 16 00-0745 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0721)				
22 13 16 00-0746	EA	2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	47.27 12.62	28.00
22 13 16 00-0747	EA	2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	52.97 13.69	30.36
22 13 16 00-0748	EA	2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	50.36 13.69	30.36
22 13 16 00-0749	EA	3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	66.50 17.08	37.95
22 13 16 00-0750	EA	3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	70.18 18.15	40.30
22 13 16 00-0751	EA	4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	98.84 19.23	42.66
22 13 16 00-0752	EA	4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	100.12 20.31	45.13
22 13 16 00-0753	EA	4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	111.36 22.00	48.82
22 13 16 00-0754	EA	6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	238.37 27.69	61.43
22 13 16 00-0755 Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0721)				
22 13 16 00-0756	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	61.23 15.38	34.15
22 13 16 00-0757	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	80.16 19.69	43.69
22 13 16 00-0758	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	128.98 26.46	58.77
22 13 16 00-0759	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	167.91 30.77	68.31
22 13 16 00-0760 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0721)				
22 13 16 00-0761	EA	2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	69.74 17.54	38.98
22 13 16 00-0762	EA	3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	90.53 20.93	46.46
22 13 16 00-0763	EA	3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	101.52 23.08	51.28
22 13 16 00-0764	EA	4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	131.23 23.12	51.32
22 13 16 00-0765	EA	4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	143.05 26.22	58.17
22 13 16 00-0766 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0721)				
22 13 16 00-0767	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	45.05 11.54	25.65
22 13 16 00-0768	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	56.00 14.77	32.82
22 13 16 00-0769	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	81.13 19.85	44.10
22 13 16 00-0770	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	104.85 23.08	51.28
22 13 16 00-0771	EA	6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	202.43 30.00	66.56
22 13 16 00-0772 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0721)				
22 13 16 00-0773	EA	2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	53.81 12.62	28.00
22 13 16 00-0774	EA	2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	57.28 13.69	30.36
22 13 16 00-0775	EA	3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	72.15 18.15	40.30
22 13 16 00-0776	EA	4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	90.12 20.31	45.13
22 13 16 00-0777	EA	4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	99.54 22.00	48.82
22 13 16 00-0778	EA	6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	176.94 27.69	61.43

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0779		Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0721)		
22 13 16 00-0780	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	65.30 15.38	34.15
22 13 16 00-0781	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	83.68 19.69	43.69
22 13 16 00-0782	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	134.83 26.46	58.77
22 13 16 00-0783	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	197.03 30.77	68.31
22 13 16 00-0784		Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0721)		
22 13 16 00-0785	EA	2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	74.94 17.54	38.98
22 13 16 00-0786	EA	3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	102.64 20.93	46.46
22 13 16 00-0787	EA	3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	111.55 23.08	51.28
22 13 16 00-0788	EA	4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	140.74 25.23	56.00
22 13 16 00-0789	EA	4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	170.19 28.61	63.48
22 13 16 00-0790		Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0791	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	48.99 11.54	25.65
22 13 16 00-0792	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	62.92 14.77	32.82
22 13 16 00-0793	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	88.70 19.85	44.10
22 13 16 00-0794	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	114.76 21.15	46.99
22 13 16 00-0795		Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0796	EA	2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	56.72 13.69	30.36
22 13 16 00-0797	EA	3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	83.17 17.08	37.95
22 13 16 00-0798	EA	3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	76.91 18.15	40.30
22 13 16 00-0799	EA	4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	104.23 20.31	45.13
22 13 16 00-0800	EA	4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	112.90 22.00	48.82
22 13 16 00-0801		Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0802	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	90.42 19.69	43.69
22 13 16 00-0803	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	145.35 26.46	58.77
22 13 16 00-0804		Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0805	EA	2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	78.40 17.54	38.98
22 13 16 00-0806	EA	3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	133.11 23.08	51.28
22 13 16 00-0807		Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0721)		
22 13 16 00-0808	EA	1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	50.85 11.54	25.65
22 13 16 00-0809	EA	2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	64.77 14.77	32.82
22 13 16 00-0810	EA	3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	92.85 19.85	44.10
22 13 16 00-0811	EA	4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	126.84 23.08	51.28
22 13 16 00-0812		Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0721)		



Plumbing			22
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0813 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	29.90 7.70	17.13
22 13 16 00-0814 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	39.67 9.85	21.85
22 13 16 00-0815 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	54.63 13.23	29.33
22 13 16 00-0816 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	76.08 15.38	34.15
22 13 16 00-0817 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	134.74 20.00	44.41
22 13 16 00-0818 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0721)		
22 13 16 00-0819 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	27.11 7.70	17.13
22 13 16 00-0820 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	34.36 9.85	21.85
22 13 16 00-0821 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	48.30 13.23	29.33
22 13 16 00-0822 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	58.20 15.38	34.15
22 13 16 00-0823 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	100.87 20.00	44.41
22 13 16 00-0824 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0721)		
22 13 16 00-0825 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	32.94 8.77	19.48
22 13 16 00-0826 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	46.63 10.46	23.18
22 13 16 00-0827 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	48.32 11.54	25.65
22 13 16 00-0828 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	61.51 12.62	28.00
22 13 16 00-0829 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	68.05 14.31	31.80
22 13 16 00-0830 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0721)		
22 13 16 00-0831 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	45.65 11.54	25.65
22 13 16 00-0832 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	60.87 14.77	32.82
22 13 16 00-0833 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	119.49 19.85	44.10
22 13 16 00-0834 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	186.20 23.08	51.28
22 13 16 00-0835 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0721)		
22 13 16 00-0836 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	61.32 15.38	34.15
22 13 16 00-0837 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	57.11 14.31	31.80
22 13 16 00-0838 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0721)		
22 13 16 00-0839 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	14.69 3.85	8.51
22 13 16 00-0840 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	19.72 4.92	10.98
22 13 16 00-0841 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	31.70 6.62	14.67
22 13 16 00-0842 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	46.99 7.70	17.13
22 13 16 00-0843 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0721)		
22 13 16 00-0844 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	30.77 8.77	19.48
22 13 16 00-0845 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.20 10.46	23.18
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.75 11.54	25.65
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	61.24 12.62	28.00
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.81 14.31	31.80
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	97.64 16.21	35.99



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0850		Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851	EA	1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	36.07 7.70	17.13
22 13 16 00-0852	EA	2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	43.94 9.85	21.85
22 13 16 00-0853	EA	3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	55.91 13.23	29.33
22 13 16 00-0854	EA	4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	63.79 15.38	34.15
22 13 16 00-0855		Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0708) Note: In place piping.		
22 13 16 00-0856	EA	1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	7.52	
22 13 16 00-0857	EA	2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	8.27	
22 13 16 00-0858	EA	3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.53	
22 13 16 00-0859	EA	4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	14.21	
22 13 16 00-0860	EA	6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	20.30	
22 13 16 00-0861		Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (22 13 16)		
22 13 16 00-0862		Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (22 13 16 00-0861) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. Fernco 1056.		
22 13 16 00-0863	EA	1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	12.25 2.67	4.46
22 13 16 00-0864	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	12.54 2.84	4.73
22 13 16 00-0865	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	13.20 3.01	5.01
22 13 16 00-0866	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	14.86 3.17	5.30
22 13 16 00-0867	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	16.50 3.34	5.57
22 13 16 00-0868	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	20.10 3.51	5.85
22 13 16 00-0869	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	23.73 3.68	6.13
22 13 16 00-0870	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	31.02 4.01	6.68
22 13 16 00-0871	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	40.12 4.68	7.80
22 13 16 00-0872		Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Couplings (22 13 16 00-0861) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. Fernco 1056.		
22 13 16 00-0873	EA	1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	13.05 2.84	4.73
22 13 16 00-0874	EA	2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	13.38 3.01	5.01
22 13 16 00-0875	EA	3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	16.84 3.17	5.30
22 13 16 00-0876	EA	3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	15.38 3.17	5.30
22 13 16 00-0877	EA	4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	20.27 3.34	5.57
22 13 16 00-0878	EA	4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	19.52 3.34	5.57
22 13 16 00-0879	EA	4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	18.13 3.34	5.57
22 13 16 00-0880	EA	5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	25.14 3.51	5.85
22 13 16 00-0881	EA	5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	23.02 3.51	5.85
22 13 16 00-0882	EA	6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling <i>For Work In Restricted Working Space, Add</i>	30.54 3.68	6.13



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0883 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling 27.36	27.36	6.13
For Work In Restricted Working Space, Add	3.68	
22 13 16 00-0884 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling 28.25	28.25	6.13
For Work In Restricted Working Space, Add	3.68	
22 13 16 00-0885 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling 54.99	54.99	11.14
For Work In Restricted Working Space, Add	6.69	
22 13 16 00-0886 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling 46.18	46.18	11.14
For Work In Restricted Working Space, Add	6.69	
22 13 16 00-0887 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling 57.60	57.60	12.53
For Work In Restricted Working Space, Add	7.52	
22 13 16 00-0888 Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Caps (22 13 16)		
Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp. Fernco QC.		
22 13 16 00-0889 EA 1-1/2" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 48.35	48.35	30.09
22 13 16 00-0890 EA 2" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 51.79	51.79	31.98
22 13 16 00-0891 EA 3" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 59.86	59.86	36.66
22 13 16 00-0892 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 79.03	79.03	48.47
22 13 16 00-0893 EA 5" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 94.67	94.67	57.95
22 13 16 00-0894 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 109.39	109.39	66.86
22 13 16 00-0895 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap 145.43	145.43	84.69
22 13 16 00-0896 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (22 13 16)		
Note: Josam 26450 Series.		
22 13 16 00-0897 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 66.47	66.47	23.08
22 13 16 00-0898 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 71.60	71.60	25.65
22 13 16 00-0899 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 101.51	101.51	33.34
22 13 16 00-0900 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 118.30	118.30	38.46
22 13 16 00-0901 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 136.53	136.53	43.59
22 13 16 00-0902 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess 201.94	201.94	48.72
22 13 16 00-0903 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (22 13 16)		
Note: Josam 26440 Series		
22 13 16 00-0904 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess 109.29	109.29	23.08
22 13 16 00-0905 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess 114.42	114.42	25.65
22 13 16 00-0906 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess 139.25	139.25	33.34
22 13 16 00-0907 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess 170.55	170.55	38.46
22 13 16 00-0908 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess 222.90	222.90	43.59
22 13 16 00-0909 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess 233.15	233.15	48.72
22 13 16 00-0910 Cast Iron Vandal Proof Hooded Vent Cap (22 13 16)		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws. Josam 26700 Series.		
22 13 16 00-0911 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap 185.49	185.49	23.08
22 13 16 00-0912 EA 2" Cast Iron Vandal Proof Hooded Vent Cap 190.62	190.62	25.65
22 13 16 00-0913 EA 3" Cast Iron Vandal Proof Hooded Vent Cap 223.42	223.42	33.34
22 13 16 00-0914 EA 4" Cast Iron Vandal Proof Hooded Vent Cap 252.56	252.56	38.46
22 13 16 00-0915 EA 5" Cast Iron Vandal Proof Hooded Vent Cap 293.30	293.30	43.59
22 13 16 00-0916 EA 6" Cast Iron Vandal Proof Hooded Vent Cap 321.69	321.69	48.72
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA 6" Round Top Floor Drain With 1-1/2" Outlet, Bronze Top 328.97	328.97	110.25
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0003 EA 6" Round Top Floor Drain With 2" Outlet, Bronze Top 365.34	365.34	123.59
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0004 EA 6" Round Top Floor Drain With 3" Outlet, Bronze Top 382.00	382.00	136.72
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0005 EA 6" Round Top Floor Drain With 4" Outlet, Bronze Top 410.15	410.15	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0006	EA		9" Round Top Floor Drain With 2" Outlet, Cast Iron Top.....	350.64	123.59
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0007	EA		9" Round Top Floor Drain With 3" Outlet, Cast Iron Top.....	377.00	136.72
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0008	EA		9" Round Top Floor Drain With 4" Outlet, Cast Iron Top.....	405.15	150.86
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0009	EA		9" Round Top Floor Drain With 2" Outlet, Nikaloy Top.....	453.64	123.59
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0010	EA		9" Round Top Floor Drain With 3" Outlet, Nikaloy Top.....	480.00	136.72
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0011	EA		9" Round Top Floor Drain With 4" Outlet, Nikaloy Top.....	508.15	150.86
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0012	EA		9" Round Top Floor Drain With 2" Outlet, Bronze Top.....	438.64	123.59
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0013	EA		9" Round Top Floor Drain With 3" Outlet, Bronze Top.....	464.85	136.72
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0014	EA		9" Round Top Floor Drain With 4" Outlet, Bronze Top.....	493.15	150.86
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	



Plumbing			22	22
Plumbing Piping			22 10	
Facility Sanitary Sewerage			22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0015	EA		12-5/8" Round Top Floor Drain With 2" Outlet, Cast Iron Top	462.52	123.48
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0016	EA		12-5/8" Round Top Floor Drain With 3" Outlet, Cast Iron Top	488.85	136.72
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0017	EA		12-5/8" Round Top Floor Drain With 4" Outlet, Cast Iron Top	517.15	150.86
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018	EA		12-5/8" Round Top Floor Drain With 2" Outlet, Nikaloy Top	616.52	123.48
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0019	EA		12-5/8" Round Top Floor Drain With 3" Outlet, Nikaloy Top	642.85	136.72
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0020	EA		12-5/8" Round Top Floor Drain With 4" Outlet, Nikaloy Top	671.15	150.86
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0021	EA		12-5/8" Round Top Floor Drain With 2" Outlet, Bronze Top	596.02	123.48
			For Chained Grate, Add	48.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Bronze Dome Grate, Add	218.50	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0022 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Bronze Top.....	622.35	136.72
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0023 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Bronze Top.....	650.65	150.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0024 Square Or Rectangular Top Drains (22 13 19 13)		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	379.02	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0026 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	405.64	136.82
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0027 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	433.65	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0028 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	394.02	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0029 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	420.64	136.82
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0030 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	448.65	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0031 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	460.02	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0032 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	486.64	136.82
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0033 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	514.65	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0034 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	368.02	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0035 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	394.64	136.82
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0036 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	422.65	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0037 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	387.02	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0038 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	413.64	136.82
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0039 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	441.65	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0040 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	440.52	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0041 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	467.14	136.82
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0042 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	495.15	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0043 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top.....	853.14	136.82
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	212.00	
22 13 19 13-0044 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top.....	881.15	150.86
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	212.00	
22 13 19 13-0045 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top.....	1,016.14	136.82
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	212.00	
22 13 19 13-0046 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top.....	1,044.15	150.86
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	212.00	
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	996.64	136.82
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	212.00	
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	1,024.65	150.86
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	212.00	
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	464.02	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	490.64	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	518.65	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	541.52	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	568.14	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	596.15	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	559.52	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	586.14	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	614.15	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	699.02	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	725.64	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	753.65	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	448.02	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	474.64	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	502.65	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	514.02	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	540.64	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	568.65	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	532.02	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0068 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	558.64	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0069 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	586.65	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0070 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	645.52	123.48
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0071 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	672.14	136.82
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0072 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	700.15	150.86
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0073 Funnel Type Floor Drains (22 13 19 13)		
22 13 19 13-0074 EA 7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	428.06	110.25
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0075 EA 7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	454.52	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0076 EA 7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....	480.85	136.72
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0077 EA 7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....	509.15	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0078 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....	567.02	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0079 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....	593.35	136.72
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0080 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....	621.65	150.86
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0081 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top.....	547.52	123.48
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	573.85	136.72
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
			For Vandal Proof Screws, Add	11.00	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	602.15	150.86
			For Galvanized Cast Iron Parts, Add	40.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
			For Vandal Proof Screws, Add	11.00	
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet (22 13 19 13)					
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	713.97	110.25
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	740.52	123.48
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	766.85	136.72
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	795.15	150.86
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	824.34	165.43
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	778.52	123.48
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	805.14	136.82
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	833.15	150.86
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate	862.34	165.43
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate	553.02	123.48
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate	579.64	136.82
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate	607.65	150.86
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate	636.84	165.43
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate	739.52	123.48
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	766.14	136.82
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	794.15	150.86
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	823.34	165.43
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	182.50	
22 13 19 13-0102			Other Drains (22 13 19 13)		
22 13 19 13-0103			Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer.....	33.72	11.14
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer.....	36.70	11.14
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	80.35	22.29
			Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	97.45	22.29
			Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	429.97	110.25
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	456.52	123.48
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	482.85	136.72
			For Galvanized Cast Iron Parts, Add	87.50	
			For Primer Tap, Add	33.50	
			For Vandal Proof Screws, Add	30.50	
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	201.66	74.36
22 13 19 13-0114	EA		Lever Drain, 2" Drain, 3" Sink Opening.....	217.03	82.05
22 13 19 13-0115	EA		Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	201.66	74.36
22 13 19 13-0116	EA		Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	217.03	82.05
22 13 19 13-0117	EA		Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	201.66	74.36
22 13 19 13-0118	EA		Twist Drain, 2" Drain, 3" Sink Opening.....	217.03	82.05
22 13 19 13-0119	EA		Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	201.66	74.36
22 13 19 13-0120	EA		Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	217.03	82.05
22 13 19 13-0121	EA		Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	257.88	82.05
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
			Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	509.18	123.59
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection.....	535.93	136.92
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0126	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection	563.65	150.86
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0127			Square Top Floor Receptors (22 13 19 13-0122)		
			Note: With acid resistant coating.		
22 13 19 13-0128	EA		8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top	544.56	110.25
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0129	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	571.14	123.59
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0130	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	597.35	136.72
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0131	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	625.65	150.86
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0132			Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133	EA		3" Trap Guard Floor Drain Insert (ProVent TG3H).....	67.87	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0134	EA		2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	57.31	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0135	EA		3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	61.54	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0136	EA		3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	72.09	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0137	EA		3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	65.76	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0138	EA		2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	89.14	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0139	EA		3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	97.64	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 13-0140	EA		4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	118.74	12.82
			Note: Prevents emission of sewer gases.		
22 13 19 26			Grease Removal Devices (22 13 19)		
22 13 19 26-0001			Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
			Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002			Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
			Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003	EA		7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	748.85	76.93
			Note: Josam 60102H.		
			For Steel Enclosure Cabinet With Non Skid Cover, Add	1,312.24	
22 13 19 26-0004	EA		10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	869.68	173.07
			Note: Josam 60103H.		
			For Flange And Clamp Device, Add	375.55	
			For Steel Enclosure Cabinet With Non Skid Cover, Add	1,386.52	
22 13 19 26-0005	EA		15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,202.37	192.30
			Note: Josam 60104H.		
			For Flange And Clamp Device, Add	388.37	
			For Steel Enclosure Cabinet With Non Skid Cover, Add	1,514.23	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0006	EA	20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60105H. <i>For Flange And Clamp Device, Add</i>	1,439.88 401.19	211.53
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,636.50	
22 13 19 26-0007	EA	25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60106H. <i>For Flange And Clamp Device, Add</i>	1,608.47 444.41	230.77
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,704.05	
22 13 19 26-0008	EA	35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60107H. <i>For Flange And Clamp Device, Add</i>	1,966.81 481.25	269.23
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,874.99	
22 13 19 26-0009	EA	50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60108H. <i>For Flange And Clamp Device, Add</i>	2,539.57 547.85	307.69
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,998.89	
22 13 19 26-0010	EA	75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60109H. <i>For Flange And Clamp Device, Add</i>	4,837.59 774.77	346.14
22 13 19 26-0011	EA	100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	5,441.40 867.17	388.75
22 13 19 26-0012	EA	150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	6,787.71 1,182.67	622.00
22 13 19 26-0013	EA	200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	9,680.49 1,415.62	777.50
22 13 19 26-0014	EA	250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A. <i>For Flange And Clamp Device, Add</i>	11,306.03 1,832.24	932.99
22 13 19 26-0015	EA	350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A. <i>For Flange And Clamp Device, Add</i>	14,626.20 2,173.67	1,088.50
22 13 19 26-0016	EA	500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A. <i>For Flange And Clamp Device, Add</i>	18,837.26 2,550.61	1,244.00
22 13 19 26-0017		Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA	20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	2,017.52	211.53
22 13 19 26-0019	EA	35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	2,593.68	269.23
22 13 19 26-0020	EA	50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	4,196.64	307.69
22 13 19 26-0021		Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022		Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA	7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,753.88 1,312.24	76.93
22 13 19 26-0024	EA	10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,057.78 1,386.52	173.07
22 13 19 26-0025	EA	15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,203.03 1,514.23	192.30
22 13 19 26-0026	EA	20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,674.66 1,636.50	211.53
22 13 19 26-0027	EA	25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,209.75 1,704.05	230.77
22 13 19 26-0028	EA	35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,337.25 1,874.99	269.23
22 13 19 26-0029	EA	50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,809.72 1,998.89	307.69
22 13 19 26-0030		Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA	35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	4,428.34	269.23



		Plumbing	22	22
		Plumbing Piping	22 10	
		Facility Sanitary Sewerage	22 13	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26)					
Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer.					
22 13 19 26-0033	EA	20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	3,866.47		211.53
Note: Lowe Engineering 20 Greasestopper.					
22 13 19 26-0034	EA	25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	4,470.83		230.77
Note: Lowe Engineering 25 Greasestopper.					
22 13 19 26-0035 Precast Concrete Grease Interceptor (22 13 19 26)					
Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.					
22 13 19 26-0036	EA	1,000 Gallon Pre-Cast Grease Interceptor	4,628.24		338.37
22 13 19 26-0037	EA	1,250 Gallon Pre-Cast Grease Interceptor	5,295.56		338.37
22 13 19 26-0038	EA	1,500 Gallon Pre-Cast Grease Interceptor	6,010.35		386.84
22 13 19 26-0039	EA	2,000 Gallon Pre-Cast Grease Interceptor	6,839.10		546.32
22 13 19 26-0040	EA	2,500 Gallon Pre-Cast Grease Interceptor	7,699.79		735.03
22 13 19 26-0041	EA	4,000 Gallon Pre-Cast Grease Interceptor	11,549.52		967.05
22 13 19 26-0042	EA	5,000 Gallon Pre-Cast Grease Interceptor	14,826.00		1,585.82
22 13 19 26-0043 Coated Steel Manual Oil Interceptor (22 13 19 26)					
Note: Includes internal air relief, and flow control fitting.					
22 13 19 26-0044	EA	10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	2,187.00		293.07
22 13 19 26-0045	EA	15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	2,893.67		348.23
22 13 19 26-0046	EA	20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	3,510.38		428.46
22 13 19 26-0047	EA	25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	3,812.71		464.12
22 13 19 26-0048	EA	35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	4,516.59		506.46
22 13 19 26-0049	EA	50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,830.53		557.16
22 13 19 26-0050	EA	75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,450.13		641.02
22 13 19 26-0051	EA	100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	10,429.83		788.71
22 13 19 26-0052	EA	150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	12,678.87		854.85
22 13 19 26-0053	EA	200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	17,549.43		1,025.62
22 13 19 26-0054	EA	250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	20,155.86		1,102.55
22 13 19 26-0055	EA	350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	25,297.74		1,314.85
22 13 19 26-0056	EA	400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	29,973.12		1,077.42
22 13 19 26-0057	EA	500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	35,513.13		1,282.03
22 13 19 33 Backwater Valves (22 13 19)					
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)					
22 13 19 33-0002	EA	2" Cast Iron Body Terminal Backwater Valve	234.67		29.44
22 13 19 33-0003	EA	3" Cast Iron Body Terminal Backwater Valve	245.95		37.03
22 13 19 33-0004	EA	4" Cast Iron Body Terminal Backwater Valve	351.56		49.23
22 13 19 33-0005	EA	6" Cast Iron Body Terminal Backwater Valve	892.45		65.70
22 13 19 33-0006	EA	8" Cast Iron Body Terminal Backwater Valve	1,095.83		86.47
22 13 19 33-0007	EA	10" Cast Iron Body Terminal Backwater Valve	3,064.00		106.67
22 13 19 33-0008	EA	12" Cast Iron Body Terminal Backwater Valve	3,483.93		138.34
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)					
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.					
22 13 19 33-0010	EA	2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	596.45		70.21
22 13 19 33-0011	EA	3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	887.18		85.13
22 13 19 33-0012	EA	4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,102.21		109.74
22 13 19 33-0013	EA	6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,505.76		119.36
22 13 19 33-0014	EA	8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,062.85		141.45
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)					
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.					
22 13 19 33-0016	EA	3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	1,509.18		111.08
22 13 19 33-0017	EA	4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	1,564.15		147.69
22 13 19 33-0018	EA	5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,242.31		176.77
22 13 19 33-0019	EA	6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,273.05		197.08
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)					
Note: Oatey.					
22 13 19 33-0021	EA	3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	96.71		37.03
22 13 19 33-0022	EA	4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	119.30		49.23
22 13 19 33-0023	EA	6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	292.57		65.70
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)					
22 13 19 33-0025	EA	3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	218.96		74.05
Note: Includes valve body, flapper assembly and collar.					
22 13 19 33-0026	EA	4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	291.54		98.46
Note: Includes valve body, flapper assembly and collar.					

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0027	EA	6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check) Note: Includes valve body, flapper assembly and collar.	472.57	131.38
22 13 19 36 Air-Admittance Valves (22 13 19)				
22 13 19 36-0001		Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)		
22 13 19 36-0002	EA	1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	100.73	14.36
22 13 19 36-0003	EA	2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	118.13	14.36
22 13 23 Sanitary Waste Interceptors (22 13)				
22 13 23 00-0001		Sediment Bucket Solids Interceptors (22 13 23)		
22 13 23 00-0002	EA	1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	714.85	145.23
22 13 23 00-0003	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184) Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	715.66	145.23
22 13 23 00-0004	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0)..... Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	977.23	145.23
22 13 23 00-0005	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0)..... Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	977.23	145.23
22 13 23 00-0006	EA	1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030)..... Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,036.45	145.23
22 13 23 00-0007		Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008	EA	1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel For Stainless Steel Bucket, Add	311.82 175.00	49.69
22 13 23 00-0009	EA	2" Inlet Cast Iron Solid Interceptor, Painted Enamel For Stainless Steel Bucket, Add	318.18 175.00	52.93
22 13 23 00-0010		Sediment Strainers (22 13 23)		
22 13 23 00-0011	EA	2" Strainer, Pump Suction Side.....	148.66	67.93
22 13 29 Sanitary Sewerage Pumps (22 13)				
Note: Includes extra set of gaskets, bearings and seals.				
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)				
22 13 29 13-0001		Vertical Non-Clog Sewage Pumps (22 13 29 13)		
22 13 29 13-0002		1-1/2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0003	EA	1/2 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	9,073.67	1,230.34
22 13 29 13-0004	EA	3/4 HP, Up To 125 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	9,480.14	1,230.34
22 13 29 13-0005	EA	1 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	9,886.61	1,230.34
22 13 29 13-0006	EA	1-1/2 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	10,274.32	1,230.34
22 13 29 13-0007		2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0008	EA	3/4 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,199.28	1,230.34
22 13 29 13-0009	EA	1 HP, Up To 100 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,355.62	1,230.34
22 13 29 13-0010	EA	2 HP, Up To 200 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,465.05	1,230.34
22 13 29 13-0011	EA	3 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	11,215.46	1,230.34
22 13 29 13-0012	EA	5 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	11,950.23	1,230.34
22 13 29 13-0013	EA	7-1/2 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	13,075.85	1,230.34
22 13 29 13-0014	EA	10 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	14,201.46	1,230.34
22 13 29 13-0015	EA	15 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	16,141.03	1,637.31
22 13 29 13-0016		3" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0017	EA	2 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	10,982.62	1,230.34
22 13 29 13-0018	EA	3 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	10,982.62	1,230.34
22 13 29 13-0019	EA	5 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,253.48	1,230.34
22 13 29 13-0020	EA	7-1/2 HP, Up To 700 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	13,355.12	1,230.34
22 13 29 13-0021	EA	10 HP, Up To 800 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	13,723.78	1,230.34
22 13 29 13-0022	EA	15 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	16,270.72	1,637.31
22 13 29 13-0023	EA	20 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	17,208.73	1,637.31



	Plumbing	22	22
	Plumbing Piping	22 10	
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	519.49	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	623.75	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	697.18	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	709.88	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	796.91	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps	466.91	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps	490.48	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps	501.36	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	468.01	41.03
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	518.45	46.15
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	717.27	61.53
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,026.17	71.80
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,097.79	74.36
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	1,171.92	76.93
22 13 29 13-0041 EA 54" Steel Sump Covers, Square Or Round.....	1,488.09	92.31
22 13 29 13-0042 EA 60" Steel Sump Covers, Square Or Round.....	1,996.51	102.56
22 13 29 13-0043 EA 72" Steel Sump Covers, Square Or Round.....	2,531.52	128.21
22 13 29 13-0044 EA 84" Steel Sump Covers, Square Or Round.....	3,199.58	141.02
22 13 29 16 Submersible Sewerage Pumps (22 13 29)		
Note: Includes 25' of cord with pumps unless otherwise noted.		
22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002 Submersible Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0003 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	546.89	74.66
22 13 29 16-0004 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	697.32	74.66
22 13 29 16-0005 EA 1 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	842.55	93.33
22 13 29 16-0006 Submersible Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0007 EA 1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	787.66	74.66
22 13 29 16-0008 EA 1 HP Submersible Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	965.44	93.33
22 13 29 16-0009 EA 1-1/2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,196.48	150.43
22 13 29 16-0010 EA 2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,331.91	183.86
22 13 29 16-0011 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)		
22 13 29 16-0012 EA 1 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,651.89	93.33
22 13 29 16-0013 EA 1.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,822.93	138.39
22 13 29 16-0014 EA 2 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,349.30	169.15
22 13 29 16-0015 EA 3 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,734.95	205.02
22 13 29 16-0016 EA 5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	3,187.29	240.90
22 13 29 16-0017 EA 7.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	3,340.66	276.78
22 13 29 16-0018 Submersible Sewage Pumps Accessories (22 13 29 16)		
22 13 29 16-0019 EA Simplex Single Phase Plug In Controller With NEMA 4X Enclosure For Non-Automatic Submersible Sewage Pump.....	320.03	77.82
Note: Includes alarm horn, warning light, and single control float switches.		
22 13 29 16-0020 EA Simplex Single Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump	720.22	103.76
Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0021 EA Simplex Three Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump	923.34	103.76
Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0022 EA Duplex Alarm System And Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump	1,036.08	129.70
Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0023 EA High-water Alarm For Submersible Sewage Pump.....	243.39	51.88
22 13 29 16-0024 EA Float Switch For Submersible Sewage Pump.....	93.95	25.94

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0025 EA Rail System With 2" Discharge For Submersible Sewage Pump	449.52	77.82
22 13 29 33 Sewerage Pump Basins And Pits (22 13 29)		
22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	112.16	
22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	142.13	
22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	303.75	
22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	420.66	
22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	537.58	
22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	623.44	
22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	189.51	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	356.66	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	619.59	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	823.38	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	945.19	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	998.54	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	1,167.61	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	1,353.39	
22 14 Facility Storm Drainage (22 10)		
22 14 13 Facility Storm Drainage Piping (22 14)		
See CSI section 22 13 16 00-0000 for storm drainage piping.		
22 14 26 Facility Storm Drains (22 14)		
22 14 26 13 Roof Drains (22 14 26)		
22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)		
22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001)		
Note: Dome free area is 124 square inches.		
22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome	487.37	170.97
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome	572.84	205.12
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome	658.31	256.41
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome	849.02	307.69
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome	891.75	341.84
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome	988.02	358.97
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,169.64	371.79
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint (22 14 26 13-0001)		
Note: With polypropylene dome. Dome free area is 124 square inches.		



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Storm Drainage	22 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0011	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome	623.37	170.97
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0012	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome	718.34	205.12
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0013	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome	822.31	256.41
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0014	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome	1,087.52	307.69
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0015	EA		15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome	1,164.75	341.84
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top (22 14 26 13-0001)					
22 14 26 13-0017	EA		14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top	757.37	170.97
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	75.50	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0018	EA		14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top	842.84	205.12
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	75.50	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0019	EA		14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top	928.31	256.41
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	75.50	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0020	EA		14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top	1,115.02	307.69
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	75.50	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0021	EA		14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top	1,157.75	341.84
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	75.50	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate (22 14 26 13-0001)					
22 14 26 13-0023	EA		Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate	427.75	68.41
			For Vandal Proof Grate, Add	11.00	
			For Galvanized Iron Parts, Add	49.00	
22 14 26 13-0024	EA		Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate	461.94	85.43
			For Vandal Proof Grate, Add	11.00	
			For Galvanized Iron Parts, Add	49.00	
22 14 26 13-0025	EA		Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate	477.47	93.23
			For Vandal Proof Grate, Add	11.00	
			For Galvanized Iron Parts, Add	98.00	
22 14 26 13-0026	EA		Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate	660.64	123.59
			For Vandal Proof Grate, Add	11.00	
			For Galvanized Iron Parts, Add	98.00	
22 14 26 13-0027	EA		Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate	715.15	150.86
			For Vandal Proof Grate, Add	11.00	
			For Galvanized Iron Parts, Add	98.00	
22 14 26 13-0028 Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001)					
Note: Grate free area is 27 square inches.					
22 14 26 13-0029	EA		9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top	510.37	170.97
			For Galvanized Iron Parts, Add	55.00	
			For Bronze Grate, Add	78.50	
			For Deck Clamp, Add	31.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	72.00	
22 14 26 13-0030	EA		9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top	595.84	205.12
			For Galvanized Iron Parts, Add	55.00	
			For Bronze Grate, Add	78.50	
			For Deck Clamp, Add	31.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	72.00	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0031	EA		9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top.....	681.31	256.41
			For Galvanized Iron Parts, Add	55.00	
			For Bronze Grate, Add	78.50	
			For Deck Clamp, Add	31.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	72.00	
22 14 26 13-0032 Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)					
22 14 26 13-0033	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome.....	530.37	170.97
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0034	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome.....	615.84	205.12
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0035	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome.....	701.31	256.41
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0036	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome.....	892.02	307.69
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0037	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome.....	934.75	341.84
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0038	EA		15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome.....	1,031.02	358.97
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0039	EA		15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome.....	1,212.64	371.79
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)					
22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)					
22 14 26 13-0042	EA		15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	537.87	170.97
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0043	EA		15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	623.34	205.12
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0044	EA		15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	708.81	256.41
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0045	EA		15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	942.25	341.53
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0046	EA		15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	1,038.72	358.97
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0047	EA		15" Diameter Roof Drain With 10" Outlet, Aluminum Dome.....	1,220.14	371.79
			For Galvanized Iron Parts, Add	197.00	
			For Deck Clamp, Add	50.00	
			For Drain Receiver, Add	56.00	
			For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)					
22 14 26 13-0049 Copolymer Retrofit Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)					
22 14 26 13-0050	EA		Copolymer Retrofit 3" Roof Drains, With Copolymer Dome.....	622.95	205.12
22 14 26 13-0051	EA		Copolymer Retrofit 4" Roof Drains, With Copolymer Dome.....	715.94	256.41



	Plumbing	22	22
	Plumbing Piping	22 10	
	Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome	874.25	307.69
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome	947.07	341.53
22 14 26 13-0054 Copolymer Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	690.66	205.12
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	780.65	256.41
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	943.46	307.69
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	995.22	341.53
22 14 26 13-0059 Aluminum Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	625.96	205.12
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	718.95	256.41
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	877.26	307.69
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	926.01	341.53
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	352.30	102.56
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	352.30	102.56
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	352.30	102.56
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	521.41	128.21
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	521.41	128.21
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	644.78	128.21
22 14 26 16 Facility Area Drains (22 14 26)		
22 14 26 16-0001 Area Drain (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	778.52	123.48
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	805.14	136.82
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	833.15	150.86
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	862.34	165.43
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0006 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	553.02	123.48
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0007 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	579.64	136.82
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0008 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	607.65	150.86
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	
22 14 26 16-0009 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	636.84	165.43
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	101.50	

22 Plumbing**22 10 Plumbing Piping****22 14 Facility Storm Drainage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0010	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	739.52	123.48	
		For Ductile Iron Grate, Add	123.50		
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	101.50		
22 14 26 16-0011	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	766.14	136.82	
		For Ductile Iron Grate, Add	123.50		
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	101.50		
22 14 26 16-0012	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	794.15	150.86	
		For Ductile Iron Grate, Add	123.50		
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	101.50		
22 14 26 16-0013	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	823.34	165.43	
		For Ductile Iron Grate, Add	123.50		
		For Vandal Proof Screws, Add	29.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	101.50		
22 14 26 16-0014	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,374.52	123.48	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0015	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,401.14	136.82	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0016	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,429.15	150.86	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0017	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,458.34	165.43	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0018	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	769.52	123.48	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0019	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	796.14	136.82	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0020	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	824.15	150.86	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0021	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	853.34	165.43	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0022	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,313.02	123.48	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0023	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,339.64	136.82	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0024	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,367.65	150.86	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		
22 14 26 16-0025	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,396.84	165.43	
		For Ductile Iron Grate, Add	123.50		
		For Primer Tap, Add	36.00		
		For Galvanized Cast Iron Parts, Add	258.50		



Plumbing			22
Plumbing Piping			22 10
Facility Storm Drainage			22 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0026	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	453.52	123.48
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0027	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	480.14	136.82
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0028	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	508.15	150.86
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0029	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	350.52	123.48
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0030	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	377.14	136.82
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0031	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	405.15	150.86
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0032	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	438.52	123.48
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0033	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	465.14	136.82
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0034	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	493.15	150.86
			For Galvanized Cast Iron Parts, Add	87.50	
			For Vandal Proof Grate, Add	30.50	
22 14 26 16-0035	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	980.02	123.48
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0036	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	1,006.64	136.82
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0037	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	1,034.65	150.86
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0038	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	704.52	123.48
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0039	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	731.14	136.82
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	759.15	150.86
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	932.02	123.48
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	958.64	136.82
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	986.65	150.86
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	126.00	
			For Galvanized Cast Iron Parts, Add	205.00	

22 14 26 19 Facility Trench Drains (22 14 26)

22 Plumbing**22 10 Plumbing Piping****22 14 Facility Storm Drainage**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 14 26 19-0001		Trench Drain (22 14 26 19)			
		Note: Each section is 39.4" in length.			
22 14 26 19-0002	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	665.36		123.48
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0003	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	691.98		136.82
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0004	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	719.99		150.86
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0005	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	449.31		123.48
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0006	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	475.93		136.82
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0007	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	503.94		150.86
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0008	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	635.92		123.48
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0009	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	662.54		136.82
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0010	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	690.55		150.86
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0011	EA	6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	541.34		61.53
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0012	EA	6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	325.29		61.53
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0013	EA	6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	511.90		61.53
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	66.00		
		For Galvanized Cast Iron Parts, Add	65.50		
22 14 26 19-0014	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	988.74		123.48
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	181.50		
		For Convex Grate On Cast Iron Or Ductile Price, Add	38.50		
		For Sediment Bucket, Add	116.00		
		For Galvanized Sediment Bucket, Add	188.50		
		For Galvanized Cast Iron Parts, Add	131.50		
22 14 26 19-0015	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,015.36		136.82
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	181.50		
		For Convex Grate On Cast Iron Or Ductile Price, Add	38.50		
		For Sediment Bucket, Add	116.00		
		For Galvanized Sediment Bucket, Add	188.50		
		For Galvanized Cast Iron Parts, Add	131.50		
22 14 26 19-0016	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,043.37		150.86
		For Vandal Proof Screws, Add	48.50		
		For Ductile Iron Grate, Add	181.50		
		For Convex Grate On Cast Iron Or Ductile Price, Add	38.50		
		For Sediment Bucket, Add	116.00		
		For Galvanized Sediment Bucket, Add	188.50		
		For Galvanized Cast Iron Parts, Add	131.50		



Plumbing			22
Plumbing Piping			22 10
Facility Storm Drainage			22 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	721.40	123.48
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	748.02	136.82
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	776.03	150.86
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	952.17	123.48
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0021	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	978.79	136.82
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0022	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,006.80	150.86
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0023	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	846.28	123.48
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0024	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	872.90	136.82
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0025	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	900.91	150.86
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
			For Sediment Bucket, Add	116.00	
			For Galvanized Sediment Bucket, Add	188.50	
			For Galvanized Cast Iron Parts, Add	131.50	
22 14 26 19-0026	EA		12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	864.70	61.53
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
22 14 26 19-0027	EA		12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	597.36	61.53
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
22 14 26 19-0028	EA		12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	828.13	61.53
			For Vandal Proof Screws, Add	48.50	
			For Ductile Iron Grate, Add	181.50	
			For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0029	EA	12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	722.24	61.53
		For Vandal Proof Screws, Add	48.50	
		For Ductile Iron Grate, Add	181.50	
		For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
22 14 29 Sump Pumps (22 14)				
See CSI section 22 11 16 00-0000 for pipe extensions into well.				
22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)				
22 14 29 13-0001		Vertical Mounted Sump Pumps (22 14 29 13)		
Note: Mounted on steel support plate and supplied with cast iron strainer, 1750 RPM drip-proof motor, 5' column sections.				
22 14 29 13-0002	EA	1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	3,220.62	297.54
22 14 29 13-0003	EA	1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	3,474.19	360.14
22 14 29 13-0004	EA	2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	3,995.34	427.85
22 14 29 13-0005	EA	3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	4,367.76	526.35
22 14 29 13-0006	EA	5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	4,637.21	570.47
22 14 29 13-0007	EA	10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	5,511.42	684.36
22 14 29 13-0008	EA	15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	6,202.39	674.99
22 14 29 13-0009	EA	20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	7,514.64	798.02
22 14 29 13-0010	EA	30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head.....	8,218.60	930.69
22 14 29 13-0011	EA	50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head.....	10,834.54	1,117.23
22 14 29 13-0012	EA	60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head.....	14,542.76	1,240.93
22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)				
22 14 29 13-0014	EA	1-1/2" Diameter x 5' Long Extra Column Assembly.....	1,200.19	
22 14 29 13-0015	EA	2" Diameter x 5' Long Extra Column Assembly.....	1,313.28	
22 14 29 13-0016	EA	2-1/2" Diameter x 5' Long Extra Column Assembly.....	1,519.49	
22 14 29 13-0017	EA	3" Diameter x 5' Long Extra Column Assembly.....	1,725.45	
22 14 29 13-0018	EA	4" Diameter x 5' Long Extra Column Assembly.....	1,928.59	
22 14 29 13-0019	EA	5" Diameter x 5' Long Extra Column Assembly.....	2,109.88	
22 14 29 13-0020	EA	6" Diameter x 5' Long Extra Column Assembly.....	2,204.46	
22 14 29 13-0021	EA	8" Diameter x 5' Long Extra Column Assembly.....	2,412.20	
22 14 29 13-0022 Float Switch (22 14 29 13)				
22 14 29 13-0023	EA	For Float Switch Copper Coated Float, General Purpose.....	1,355.68	32.31
22 14 29 13-0024	EA	For Float Switch Copper Coated Float, Weathertight.....	1,420.89	32.31
22 14 29 13-0025	EA	For Float Switch Copper Coated Float, Explosion Proof.....	1,450.98	32.31
22 14 29 13-0026 Support Plate (22 14 29 13)				
22 14 29 13-0027	EA	24" Steel Support Plate, Round Or Square.....	468.01	41.03
22 14 29 13-0028	EA	30" Steel Support Plate, Round Or Square.....	518.45	46.15
22 14 29 13-0029	EA	36" Steel Support Plate, Round Or Square.....	717.27	61.53
22 14 29 13-0030	EA	40" Steel Support Plate, Round Or Square.....	1,026.17	71.80
22 14 29 13-0031	EA	42" Steel Support Plate, Round Or Square.....	1,097.79	74.36
22 14 29 13-0032	EA	48" Steel Support Plate, Round Or Square.....	1,171.82	76.93
22 14 29 13-0033	EA	54" Steel Support Plate, Round Or Square.....	1,488.09	92.31
22 14 29 13-0034	EA	60" Steel Support Plate, Round Or Square.....	1,996.51	102.56
22 14 29 13-0035	EA	72" Steel Support Plate, Round Or Square.....	2,659.68	128.21
22 14 29 13-0036	EA	84" Steel Support Plate, Round Or Square.....	3,199.58	141.02
22 14 29 16 Submersible Sump Pumps (22 14 29)				
Note: Includes 25' of cord with pumps unless otherwise noted.				
22 14 29 16-0001		Submersible Sump Pump With Vortex Impeller (22 14 29 16)		
22 14 29 16-0002		Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)		
22 14 29 16-0003	EA	1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	330.06	66.86
22 14 29 16-0004	EA	1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	358.95	66.86
22 14 29 16-0005	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	497.00	70.76
22 14 29 16-0006	EA	1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	530.74	70.76
22 14 29 16-0007 Submersible Sump Pump With Bronze Vortex Impeller (22 14 29 16-0001)				
22 14 29 16-0008	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	750.87	70.76
22 14 29 16-0009	EA	1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	809.06	70.76
22 14 29 16-0010	EA	1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	854.14	78.00
22 14 29 16-0011	EA	1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	914.36	78.00



Plumbing			22
Plumbing Piping			22 10
Facility Storm Drainage			22 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0012 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	963.25	89.15
22 14 29 16-0013 EA 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,023.48	89.15
22 14 29 16-0014 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,047.71	105.86
22 14 29 16-0015 EA 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,097.35	105.86
22 14 29 16-0016 Submersible Sump Pump With Semi-Open Impeller (22 14 29 16)		
22 14 29 16-0017 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	732.95	66.86
22 14 29 16-0018 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	832.25	70.76
22 14 29 16-0019 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	982.43	74.66
22 14 29 16-0020 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	1,037.65	78.00
22 14 29 16-0021 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	1,183.83	89.15
22 14 29 16-0022 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	1,379.31	105.86
22 14 29 19 Sump-Pump Basins and Pits (22 14 29) See CSI section 22 13 29 33-0000 for basins and pits.		
22 15 General Service Compressed-Air Systems (22 10)		
22 15 13 General Service Compressed-Air Piping (22 15)		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	47.06	15.60
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	51.65	18.94
22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	587.82	84.61
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	664.23	86.95
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	836.27	89.31
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	968.94	94.01
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,078.49	105.76
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,198.40	120.33
22 15 13 00-0012 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,690.36	152.76
22 15 13 00-0013 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,904.42	178.62
22 15 13 00-0014 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,068.76	190.84
22 15 13 00-0015 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,250.39	211.52
22 15 13 00-0016 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,532.98	235.03
22 15 13 00-0017 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,817.97	258.53
22 15 13 00-0018 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,972.65	286.73
22 15 13 00-0019 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,453.72	305.53
22 15 13 00-0020 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,137.36	317.28
22 15 13 00-0021 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,865.25	329.04
22 15 13 00-0022 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,395.34	340.78
22 15 13 00-0023 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,866.58	352.54
22 15 13 00-0024 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	6,548.62	376.04
22 15 13 00-0025 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	7,667.05	470.05
22 15 13 00-0026 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	9,682.39	564.06
22 15 13 00-0027 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	10,800.83	658.07
22 15 13 00-0028 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	12,697.79	752.09
22 15 13 00-0029 Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0030 EA 0-60 SCFM Oil/Water Separator.....	495.97	35.67
22 15 13 00-0031 EA 85 SCFM Oil/Water Separator.....	707.86	41.80
22 15 13 00-0032 EA 190 SCFM Oil/Water Separator.....	826.63	47.38
22 15 13 00-0033 EA 245 SCFM Oil/Water Separator.....	1,035.89	55.73
22 15 13 00-0034 EA 320 SCFM Oil/Water Separator.....	1,231.60	66.88
22 15 13 00-0035 EA 700 SCFM Oil/Water Separator.....	2,485.10	139.34
22 15 13 00-0036 Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0037 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	100.66	28.20
22 15 13 00-0038 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	139.79	37.60
22 15 13 00-0039 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	231.30	47.01
22 15 13 00-0040 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	295.05	70.51
22 15 13 00-0041 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	405.30	82.25
22 15 13 00-0042 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	428.80	94.01

22 Plumbing**22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0043 Combination Air System; Filter Regulator Lubricator (22 15 13)				
22 15 13 00-0044	EA	3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	372.51	84.61
22 15 13 00-0045	EA	1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	464.80	112.81
22 15 13 00-0046 Heatless Desiccant Air Dryers (22 15 13)				
22 15 13 00-0047	EA	5 SCFM Heatless Desiccant Air Dryer.....	2,014.13	84.61
22 15 13 00-0048	EA	10 SCFM Heatless Desiccant Air Dryer.....	2,418.37	94.01
22 15 13 00-0049	EA	15 SCFM Heatless Desiccant Air Dryer.....	2,445.54	103.41
22 15 13 00-0050	EA	20 SCFM Heatless Desiccant Air Dryer.....	2,793.11	117.51
22 15 13 00-0051	EA	30 SCFM Heatless Desiccant Air Dryer.....	3,838.64	141.02
22 15 13 00-0052	EA	50 SCFM Heatless Desiccant Air Dryer.....	3,811.86	188.02
22 15 13 00-0053	EA	85 SCFM Heatless Desiccant Air Dryer.....	5,112.53	235.03
22 15 13 00-0054	EA	100 SCFM Heatless Desiccant Air Dryer.....	5,439.51	282.03
22 15 13 00-0055	EA	125 SCFM Heatless Desiccant Air Dryer.....	6,230.01	329.04
22 15 13 00-0056	EA	175 SCFM Heatless Desiccant Air Dryer.....	7,153.14	376.04
22 15 13 00-0057	EA	200 SCFM Heatless Desiccant Air Dryer.....	7,695.02	423.05
22 15 13 00-0058	EA	300 SCFM Heatless Desiccant Air Dryer.....	9,389.14	470.05
22 15 13 00-0059	EA	400 SCFM Heatless Desiccant Air Dryer.....	10,447.77	564.06
22 15 13 00-0060	EA	500 SCFM Heatless Desiccant Air Dryer.....	12,078.05	658.07
22 15 13 00-0061	EA	600 SCFM Heatless Desiccant Air Dryer.....	13,933.16	752.09
22 15 13 00-0062 Air Cooled Aftercoolers (22 15 13)				
22 15 13 00-0063	EA	20 SCFM Air-Cooled Aftercooler.....	524.14	58.75
22 15 13 00-0064	EA	35 SCFM Air-Cooled Aftercooler.....	704.29	70.51
22 15 13 00-0065	EA	43 SCFM Air-Cooled Aftercooler.....	775.62	82.25
22 15 13 00-0066	EA	70 SCFM Air-Cooled Aftercooler.....	945.02	94.01
22 15 13 00-0067	EA	125 SCFM Air-Cooled Aftercooler.....	1,305.76	105.76
22 15 13 00-0068	EA	185 SCFM Air-Cooled Aftercooler.....	1,465.61	117.51
22 15 13 00-0069	EA	260 SCFM Air-Cooled Aftercooler.....	2,801.07	141.02
22 15 13 00-0070	EA	365 SCFM Air-Cooled Aftercooler.....	2,935.62	164.52
22 15 13 00-0071	EA	560 SCFM Air-Cooled Aftercooler.....	3,069.21	188.02
22 15 13 00-0072	EA	650 SCFM Air-Cooled Aftercooler.....	3,595.53	211.52
22 15 13 00-0073	EA	750 SCFM Air-Cooled Aftercooler.....	3,932.42	235.03
22 15 13 00-0074	EA	900 SCFM Air-Cooled Aftercooler.....	4,504.67	258.53
22 15 13 00-0075	EA	1,100 SCFM Air-Cooled Aftercooler.....	5,761.92	282.03
22 15 13 00-0076	EA	1,460 SCFM Air-Cooled Aftercooler.....	6,583.39	305.53
22 15 13 00-0077	EA	1,800 SCFM Air-Cooled Aftercooler.....	6,803.80	329.04
22 15 13 00-0078	EA	2,500 SCFM Air-Cooled Aftercooler.....	7,295.68	352.54
22 15 13 00-0079 Compressed Air Coalescing Filters (22 15 13)				
22 15 13 00-0080 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)				
22 15 13 00-0081	EA	10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating.....	192.04	36.23
22 15 13 00-0082	EA	20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating.....	225.53	36.23
22 15 13 00-0083	EA	50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating.....	247.44	41.80
22 15 13 00-0084	EA	75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating.....	284.81	47.93
22 15 13 00-0085	EA	100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating.....	330.72	52.95
22 15 13 00-0086	EA	140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating.....	376.93	64.09
22 15 13 00-0087	EA	175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating.....	450.71	69.66
22 15 13 00-0088	EA	250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating.....	492.48	83.60
22 15 13 00-0089	EA	280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating.....	634.32	111.46
22 15 13 00-0090	EA	350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating.....	724.38	125.40
22 15 13 00-0091 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)				
22 15 13 00-0092	EA	16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating.....	230.32	36.23
22 15 13 00-0093	EA	30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating.....	251.02	41.80
22 15 13 00-0094	EA	60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating.....	288.16	47.93
22 15 13 00-0095	EA	100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating.....	337.42	47.38
22 15 13 00-0096	EA	140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating.....	384.58	64.09
22 15 13 00-0097	EA	180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating.....	434.73	69.66
22 15 13 00-0098	EA	250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating.....	501.10	83.60
22 15 13 00-0099	EA	280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating.....	648.67	111.46
22 15 13 00-0100	EA	350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating.....	743.51	125.40
22 15 13 00-0101 Compressed Air Storage Tanks (22 15 13)				
22 15 13 00-0102 Horizontal Compressed Air Storage Tanks (22 15 13 00-0101)				
22 15 13 00-0103	EA	12 Gallon Horizontal Compressed Air Storage Tank, ASME.....	317.85	75.21
22 15 13 00-0104	EA	15 Gallon Horizontal Compressed Air Storage Tank, ASME.....	410.31	82.25
22 15 13 00-0105	EA	20 Gallon Horizontal Compressed Air Storage Tank, ASME.....	434.13	86.49
22 15 13 00-0106	EA	30 Gallon Horizontal Compressed Air Storage Tank, ASME.....	490.80	94.01
22 15 13 00-0107	EA	60 Gallon Horizontal Compressed Air Storage Tank, ASME.....	644.49	126.91
22 15 13 00-0108	EA	80 Gallon Horizontal Compressed Air Storage Tank, ASME.....	767.00	141.02



Plumbing			22
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General Service Compressed-Air Systems			22 15

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0109	EA	120 Gallon Horizontal Compressed Air Storage Tank, ASME	1,108.05	164.52
22 15 13 00-0110	EA	200 Gallon Horizontal Compressed Air Storage Tank, ASME	1,600.54	188.02
22 15 13 00-0111	EA	240 Gallon Horizontal Compressed Air Storage Tank, ASME	1,775.53	199.77
22 15 13 00-0112	EA	325 Gallon Horizontal Compressed Air Storage Tank, ASME	2,496.91	211.52
22 15 13 00-0113	EA	400 Gallon Horizontal Compressed Air Storage Tank, ASME	3,260.84	246.77
22 15 13 00-0114	EA	660 Gallon Horizontal Compressed Air Storage Tank, ASME	4,635.46	293.78
22 15 13 00-0115 Vertical Compressed Air Storage Tanks (22 15 13 00-0101)				
22 15 13 00-0116	EA	10 Gallon Vertical Compressed Air Storage Tank, ASME	380.85	75.21
22 15 13 00-0117	EA	15 Gallon Vertical Compressed Air Storage Tank, ASME	402.63	82.25
22 15 13 00-0118	EA	20 Gallon Vertical Compressed Air Storage Tank, ASME	434.13	86.49
22 15 13 00-0119	EA	30 Gallon Vertical Compressed Air Storage Tank, ASME	506.01	94.01
22 15 13 00-0120	EA	60 Gallon Vertical Compressed Air Storage Tank, ASME	690.11	126.91
22 15 13 00-0121	EA	80 Gallon Vertical Compressed Air Storage Tank, ASME	788.98	141.02
22 15 13 00-0122	EA	120 Gallon Vertical Compressed Air Storage Tank, ASME	1,060.27	164.52
22 15 13 00-0123	EA	200 Gallon Vertical Compressed Air Storage Tank, ASME	1,502.07	188.02
22 15 13 00-0124	EA	240 Gallon Vertical Compressed Air Storage Tank, ASME	1,650.02	199.77
22 15 13 00-0125	EA	325 Gallon Vertical Compressed Air Storage Tank, ASME	2,189.68	211.52
22 15 13 00-0126	EA	400 Gallon Vertical Compressed Air Storage Tank, ASME	2,784.03	246.77
22 15 13 00-0127	EA	500 Gallon Vertical Compressed Air Storage Tank, ASME	3,583.77	270.28
22 15 13 00-0128	EA	660 Gallon Vertical Compressed Air Storage Tank, ASME	5,826.47	305.53
22 15 19 General Service Packaged Air Compressors And Receivers (22 15)				
Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.				
22 15 19 13 General Service Packaged Reciprocating Air Compressors (22 15 19)				
22 15 19 13-0001 Single Stage Compressor (22 15 19 13)				
Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.				
22 15 19 13-0002	EA	1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	1,593.18	333.55
22 15 19 13-0003	EA	3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	1,691.84	384.97
22 15 19 13-0004	EA	1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	1,942.00	454.63
22 15 19 13-0005	EA	2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	2,200.32	501.64
22 15 19 13-0006	EA	3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	2,628.90	529.84
22 15 19 13-0007	EA	3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	2,795.83	548.64
22 15 19 13-0008	EA	5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	3,147.74	627.05
22 15 19 13-0009	EA	5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	3,370.33	664.66
22 15 19 13-0010	EA	7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	4,010.12	752.46
22 15 19 13-0011 Two Stage Compressor (22 15 19 13)				
Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.				
22 15 19 13-0012	EA	1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure	3,007.77	586.25
22 15 19 13-0013	EA	2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure	3,273.98	689.75
22 15 19 13-0014	EA	3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure	3,445.65	752.46
22 15 19 13-0015	EA	5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure	4,042.21	1,003.28
22 15 19 13-0016	EA	5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure	4,299.33	1,003.28
22 15 19 13-0017	EA	7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure	4,747.97	1,254.10
22 15 19 13-0018	EA	7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure	4,981.17	1,254.10
22 15 19 13-0019	EA	10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure	6,356.52	1,551.17
22 15 19 13-0020	EA	10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure	6,866.10	1,598.17
22 15 19 13-0021	EA	15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure	7,405.72	1,867.79
22 15 19 13-0022	EA	20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure	10,640.70	2,114.29
22 15 19 13-0023	EA	25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure	11,518.70	2,389.09
22 15 19 13-0024	EA	30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure	12,820.67	2,640.47
22 15 19 13-0025	EA	30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure	13,963.27	2,893.83
22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)				
22 15 19 19-0001 Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)				
Note: Oil flooded.				
22 15 19 19-0002	EA	3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	5,090.31	889.49
22 15 19 19-0003	EA	5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	5,829.18	1,185.99
22 15 19 19-0004	EA	7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	7,444.63	1,486.95
22 15 19 19-0005	EA	10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	8,774.75	1,894.91
22 15 19 19-0006	EA	15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	10,054.13	2,229.31
22 15 19 19-0007	EA	20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	12,063.03	2,507.98
22 15 19 19-0008	EA	25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	13,262.31	2,786.64
22 15 19 19-0009	EA	30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	15,740.03	3,121.03
22 15 19 19-0010	EA	40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	17,235.62	3,343.96
22 15 19 19-0011	EA	50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	19,233.12	3,603.68
22 15 19 19-0012	EA	60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	24,379.41	3,901.30
22 15 19 19-0013	EA	75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	26,897.48	4,124.23
22 15 19 19-0014	EA	100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	41,570.04	4,458.62
22 15 19 19-0015	EA	125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	51,304.53	4,820.89

22 Plumbing**22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0016 EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	59,284.95	5,188.72
22 15 19 19-0017 EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	76,227.54	5,573.28
22 15 19 19-0018 EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	86,311.10	5,929.96
22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver (22 15 19 19) Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 19-0020 EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	6,411.58	1,185.99
22 15 19 19-0021 EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	6,756.00	1,185.99
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	7,718.49	1,486.95
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	8,095.20	1,486.95
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	8,925.44	1,894.91
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	9,323.67	1,894.91
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	10,178.51	2,229.31
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	10,609.03	2,229.31
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	16,597.88	2,507.98
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	17,958.61	2,786.64
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	19,211.72	3,121.03

22 30 Plumbing Equipment (22)**22 31 Domestic Water Softeners** (22 30)**22 31 16 Commercial Domestic Water Softeners** (22 31)**22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water)** (22 31 16)**22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water)** (22 31 16 00-0001)**22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water)** (22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11)	2,825.69	282.05
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11)	2,953.64	294.86
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11)	3,180.57	307.69
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11)	3,637.42	320.51
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11)	3,870.95	333.33

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11)	4,151.87	307.69
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11)	4,364.52	320.51
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11)	4,599.15	333.33
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11)	5,430.00	346.14
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11)	6,017.73	358.97
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11)	7,280.88	371.79

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11)	6,201.52	320.51
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	Plumbing	22	
	Plumbing Equipment	22 30	22
	Domestic Water Softeners	22 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11)	6,428.45	333.33
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11)	7,261.50	346.14
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11)	7,849.23	358.97
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11)	9,180.58	371.79
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11)	12,034.32	384.61
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11)	14,041.06	397.43
22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11)	14,706.98	371.79
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11)	16,959.02	384.61
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11)	18,939.36	397.43
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11)	23,781.90	410.25
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11)	26,311.14	423.07
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21)	10,146.53	480.76
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21)	10,595.29	499.99
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21)	12,029.64	519.23
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21)	13,131.80	538.46
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21)	15,959.87	557.68
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21)	21,029.73	576.91
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21)	24,693.79	596.14
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21)	26,920.27	557.68
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21)	30,881.33	576.91
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21)	34,667.49	596.14
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21)	44,010.84	615.37
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21)	49,101.61	634.60
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)		
22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	3,752.34	423.07
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	3,995.40	442.30
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	4,342.96	461.53
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	5,160.23	480.76

22	Plumbing
22 30	Plumbing Equipment
22 31	Domestic Water Softeners



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	5,684.89	499.99
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21).....	7,085.26	461.53
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21).....	7,466.93	480.76
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21).....	8,024.59	499.99
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21).....	9,147.64	519.23
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	10,287.20	538.46
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	12,797.37	557.68
22 32 Domestic Water Filtration Equipment (22 30)		
22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)		
22 32 16 00-0001 Commercial Water Filters Housings (22 32 16)		
22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)		
22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)		
22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1).....	1,489.77	181.13
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1).....	1,527.53	195.07
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2).....	1,626.90	209.00
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3).....	1,794.46	222.93
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4).....	1,854.23	236.86
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4).....	2,218.69	250.80
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3).....	5,883.16	264.73
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4).....	6,820.72	278.66
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3).....	8,610.80	292.59
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4).....	9,537.36	306.53
22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)		
22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)		
22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50).....	8.58	2.23
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20).....	8.58	2.23
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10).....	8.58	2.23
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5).....	7.48	2.23
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1).....	8.86	2.23
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50).....	8.86	2.23
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20).....	9.41	2.23
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5).....	11.34	2.23
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1).....	9.41	2.23
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50).....	10.78	2.23
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20).....	10.78	2.23
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5).....	10.78	2.23
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1).....	11.61	2.23
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50).....	14.64	2.23
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20).....	13.54	2.23
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5).....	13.54	2.23
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1).....	14.64	2.23
22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)		
22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50).....	13.81	2.23
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20).....	13.81	2.23
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5).....	14.08	2.23
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1).....	14.91	2.23
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB).....	21.51	2.23
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50).....	20.68	2.23
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20).....	20.68	2.23



	Plumbing	22	22
	Plumbing Equipment	22 30	
	Domestic Water Filtration Equipment	22 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5).....	20.68	2.23
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1).....	26.74	2.23
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB).....	37.18	2.23
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50).....	31.41	2.23
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20).....	42.96	2.23
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5).....	44.61	2.23
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1).....	50.11	2.23
22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)		
22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)		
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	1,192.94	167.20
22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)		
22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	347.11	2.23
22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCB50).....	73.48	2.23
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCB20).....	72.94	2.23
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCB5).....	72.94	2.23
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCB1).....	83.38	2.23
22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	191.46	2.23
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	179.91	2.23
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	195.86	2.23
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	205.21	2.23
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	218.41	2.23
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	236.56	2.23
22 33 Electric Domestic Water Heaters (22 30)		
22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)		
22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	292.38	55.71
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RPT7P).....	359.33	55.71
22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	398.26	83.57
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	491.62	111.43
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	838.17	195.01
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	1,207.40	222.87
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	746.64	111.43
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	1,035.69	167.15
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	1,181.44	222.87
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	1,217.77	222.87
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	1,252.08	222.87
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	1,302.54	222.87
22 33 30 Residential, Electric Domestic Water Heaters (22 33)		
22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)		

22 Plumbing**22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 13-0001		Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30)		
		¹³⁾ Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002	EA	2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	617.39	175.50
22 33 30 13-0003	EA	10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	728.48	186.65
22 33 30 13-0004	EA	20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	834.01	195.01
22 33 30 16		Residential, Storage Electric Domestic Water Heaters (22 33 30)		
22 33 30 16-0001		Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
		Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0002	EA	30 Gallon, Electric Domestic Water Heater.....	877.42	195.01
22 33 30 16-0003	EA	40 Gallon, Electric Domestic Water Heater.....	842.93	200.58
22 33 30 16-0004	EA	50 Gallon, Electric Domestic Water Heater.....	838.53	206.15
22 33 30 16-0005	EA	55 Gallon, Electric Domestic Water Heater.....	914.33	208.94
22 33 30 16-0006	EA	66 Gallon, Electric Domestic Water Heater.....	1,237.13	214.51
22 33 30 16-0007	EA	80 Gallon, Electric Domestic Water Heater.....	1,264.94	222.87
22 33 30 16-0008	EA	120 Gallon, Electric Domestic Water Heater.....	1,621.57	236.80
22 33 30 16-0009		Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
		Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0010	EA	30 Gallon, Low-Boy, Electric Domestic Water Heater.....	927.26	195.01
22 33 30 16-0011	EA	40 Gallon, Low-Boy, Electric Domestic Water Heater.....	898.44	200.58
22 33 30 16-0012	EA	50 Gallon, Low-Boy, Electric Domestic Water Heater.....	945.10	206.15
22 33 30 16-0013		High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) (22 33 30 16)		
		Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0014	EA	40 Gallon, High Efficiency, Electric Domestic Water Heater.....	956.66	200.58
22 33 30 16-0015	EA	50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,031.69	206.15
22 33 30 16-0016	EA	66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,229.31	214.51
22 33 30 16-0017	EA	80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,325.94	222.87
22 33 30 16-0018		Water Heater Accessories (22 33 30 16)		
22 33 30 16-0019	EA	2 Gallon, Expansion Pressure Tank For Water Heaters.....	68.97	11.14
22 33 30 16-0020	EA	4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	79.38	11.14
22 33 30 16-0021	EA	7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	143.73	11.14
22 33 30 16-0022	EA	14 Gallon, Expansion Pressure Tank For Water Heaters.....	189.01	11.14
22 33 30 16-0023	EA	20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	45.62	8.36
22 33 30 16-0024	EA	22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	49.10	8.36
22 33 30 16-0025	EA	24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	51.43	8.36
22 33 30 16-0026	EA	26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	59.55	8.36
22 33 30 16-0027	EA	22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	28.15	8.36
22 33 30 16-0028	EA	24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	30.00	8.36
22 33 30 16-0029	EA	26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	32.62	8.36
22 33 30 16-0030	EA	28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	35.98	8.36
22 33 33		Light-Commercial Electric Domestic Water Heaters (22 33 33)		
22 33 33 00-0001		Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) (22 33 33)		
		Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0002	EA	3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	3,830.02	195.01
22 33 33 00-0003	EA	3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	3,934.26	195.01
22 33 33 00-0004	EA	6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	4,142.75	195.01
22 33 33 00-0005	EA	3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	4,198.46	222.87
22 33 33 00-0006	EA	6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	4,406.95	222.87
22 33 33 00-0007	EA	9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	4,719.68	222.87
22 33 33 00-0008	EA	12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	4,823.93	222.87
22 33 33 00-0009	EA	15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	5,032.41	222.87
22 33 33 00-0010	EA	18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	5,136.66	222.87
22 33 33 00-0011	EA	6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	4,511.19	222.87
22 33 33 00-0012	EA	9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	4,719.68	222.87
22 33 33 00-0013	EA	12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	4,928.17	222.87
22 33 33 00-0014	EA	15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	5,136.66	222.87
22 33 33 00-0015	EA	18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	5,345.15	222.87
22 33 33 00-0016	EA	24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	6,700.32	222.87
22 33 33 00-0017	EA	9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	4,935.36	278.58
22 33 33 00-0018	EA	12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	5,248.09	278.58
22 33 33 00-0019	EA	15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	5,352.33	278.58
22 33 33 00-0020	EA	18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	5,560.86	278.58
22 33 33 00-0021	EA	24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24).....	6,811.75	278.58
22 33 33 00-0022	EA	30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30).....	7,437.21	278.58



	Plumbing	22	
	Plumbing Equipment	22 30	22
	Electric Domestic Water Heaters	22 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36)	7,854.19	278.58
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9)	5,880.75	334.30
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12)	6,089.24	334.30
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15)	6,089.24	334.30
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18)	6,193.48	334.30
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24)	7,965.63	334.30
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30)	8,382.60	334.30
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36)	8,591.09	334.30
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45)	10,050.51	334.30
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54)	10,050.51	334.30
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60)	12,135.39	334.30
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75)	14,220.27	334.30
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90)	17,556.08	334.30
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9)	6,624.84	445.73
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	6,833.33	445.73
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	6,937.57	445.73
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	7,041.81	445.73
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	8,709.72	445.73
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	9,126.69	445.73
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	9,230.94	445.73
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	10,690.35	445.73
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	10,898.84	445.73
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	11,315.82	445.73
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	15,277.09	445.73
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	18,508.65	445.73
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	7,361.73	501.45
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	7,465.98	501.45
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	7,570.22	501.45
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	9,238.12	501.45
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	9,550.86	501.45
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	9,863.59	501.45
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	11,218.76	501.45
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	11,323.00	501.45
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	11,739.98	501.45
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	15,492.76	501.45
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	18,620.08	501.45
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	8,307.11	557.16
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	8,411.36	557.16
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	9,662.29	557.16
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	10,079.26	557.16
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	10,287.75	557.16
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	11,747.17	557.16
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	11,851.41	557.16
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	13,623.56	557.16
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	15,708.44	557.16
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	19,044.25	557.16
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	9,155.45	668.60
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	9,468.18	668.60
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	10,302.13	668.60
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	10,719.11	668.60
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	10,927.60	668.60
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	12,282.77	668.60
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	12,387.01	668.60
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	14,576.14	668.60
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	17,286.48	668.60
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	19,579.85	668.60

22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) (22 33 33)

Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.

22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,036.28	195.01
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,077.98	195.01
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,206.66	222.87
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	1,905.09	222.87
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	2,193.74	278.58
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	2,482.39	334.30
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	3,181.55	501.45

22 33 33 00-0087 Removal And Reinstallation Of Water Heater (22 33 33)

Note: Includes storage and cleaning.

22 33 33 00-0088 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon	371.45	
22 33 33 00-0089 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon	1,114.33	

22 34 Fuel-Fired Domestic Water Heaters (22 30)

22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34)

22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0002) Note: Includes vent connection. Excludes vent.		
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	1,180.07	222.87
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	1,262.58	225.65
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN)	1,371.64	231.23
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN)	1,571.50	236.80
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN)	1,873.62	250.72
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN)	1,908.59	250.72
22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0009) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN)	1,257.01	222.87
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN)	1,873.62	250.72
22 34 30 Residential Gas Domestic Water Heaters (22 34 30)		
22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30 13)		
22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13-0001) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30)	928.52	214.51
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40)	920.80	220.08
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50)	1,161.72	225.65
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65)	1,245.08	231.23
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75)	1,344.98	236.80
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100)	1,895.76	250.72
22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30 16)		
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16-0001) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40)	1,536.52	220.08
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50)	1,727.88	225.65
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75)	2,188.91	231.23
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30 19)		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19-0001) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40)	1,414.80	220.08
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50)	1,470.33	225.65
22 34 36 Commercial Gas Domestic Water Heaters (22 34 36)		
22 34 36 00-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 00-0001) Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 00-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120)	4,648.05	334.30
22 34 36 00-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154)	4,980.02	390.02
22 34 36 00-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180)	6,141.42	445.73
22 34 36 00-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199)	5,345.56	445.73
22 34 36 00-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200)	6,108.91	445.73
22 34 36 00-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A)	8,089.07	490.30
22 34 36 00-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250)	5,954.65	501.45
22 34 36 00-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A)	8,726.14	551.59
22 34 36 00-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251)	6,042.85	501.45
22 34 36 00-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A)	8,337.64	551.59
22 34 36 00-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275)	6,727.71	612.89
22 34 36 00-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A)	9,160.30	674.17
22 34 36 00-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305)	7,525.71	612.89
22 34 36 00-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A)	9,212.80	674.17
22 34 36 00-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365)	7,322.19	668.60
22 34 36 00-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A)	10,164.87	735.46
22 34 36 00-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400)	9,201.65	668.60
22 34 36 00-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A)	11,970.87	735.46



Plumbing			22
Plumbing Equipment			22 30
Fuel-Fired Domestic Water Heaters			22 34

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 00-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500)	11,917.08	724.31
22 34 36 00-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151)	5,966.98	390.02
22 34 36 00-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A)	7,136.98	429.02
22 34 36 00-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201)	6,225.42	445.73
22 34 36 00-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A)	7,438.07	490.30
22 34 36 00-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	1,607.11	278.58
22 34 36 00-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	1,743.61	278.58
22 34 36 00-0027 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN)		
(22 34 36) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 00-0028 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	3,818.55	334.30
22 34 36 00-0029 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120)	5,383.05	334.30
22 34 36 00-0030 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154)	6,554.98	390.02
22 34 36 00-0031 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180)	6,844.92	445.73
22 34 36 00-0032 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199)	6,876.42	445.73
22 34 36 00-0033 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200)	7,023.42	445.73
22 34 36 00-0034 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	8,225.57	490.30
22 34 36 00-0035 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250)	7,754.35	501.45
22 34 36 00-0036 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	9,503.14	551.59
22 34 36 00-0037 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275)	8,176.71	612.89
22 34 36 00-0038 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	9,979.30	674.17
22 34 36 00-0039 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310)	8,344.71	612.89
22 34 36 00-0040 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	10,084.30	674.17
22 34 36 00-0041 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366)	9,348.65	668.60
22 34 36 00-0042 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	10,962.87	735.46
22 34 36 00-0043 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400) ..	11,249.15	668.60
22 34 36 00-0044 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	12,957.87	735.46
22 34 36 00-0045 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH)		
(22 34 36) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 00-0046 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80)	2,999.55	334.30
22 34 36 00-0047 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100)	3,965.55	334.30
22 34 36 00-0048 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120)	4,763.55	334.30
22 34 36 00-0049 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	6,804.41	367.73
22 34 36 00-0050 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)	6,974.98	390.02
22 34 36 00-0051 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	8,764.48	429.02
22 34 36 00-0052 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)	7,107.42	445.73
22 34 36 00-0053 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	9,055.07	490.30
22 34 36 00-0054 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)	8,205.85	501.45
22 34 36 00-0055 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	9,954.64	551.59
22 34 36 00-0056 EA 300 MBH Input, 130 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	13,003.30	674.17
22 34 36 00-0057 EA 399.9 MBH Input, 130 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	13,682.37	735.46
22 34 36 00-0058 EA 499.9 MBH Input, 130 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	15,715.94	796.75
22 34 36 00-0059 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters		
(22 34 36)		
22 34 36 00-0060 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	26,491.78	1,286.64
22 34 36 00-0061 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	37,146.38	1,422.07
22 34 36 00-0062 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	40,270.59	1,489.79

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 00-0063 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	43,625.49	1,625.23
22 34 36 00-0064 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36)		
22 34 36 00-0065 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	23,593.84	1,286.64
22 34 36 00-0066 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	26,065.49	1,422.07
22 34 36 00-0067 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	28,450.53	1,489.79
22 34 36 00-0068 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	30,915.54	1,625.23
22 34 36 00-0069 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36)		
22 34 36 00-0070 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	6,251.95	609.46
22 34 36 00-0071 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	6,882.69	677.18
22 34 36 00-0072 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	8,095.45	812.61
22 34 36 00-0073 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	11,209.03	846.47
22 34 36 00-0074 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	12,406.91	1,015.77
22 34 36 00-0075 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	15,277.70	1,218.92
22 34 36 00-0076 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	17,298.16	1,286.64
22 34 36 00-0077 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	19,147.46	1,388.22
22 34 36 00-0078 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	20,859.82	1,455.93
22 34 36 00-0079 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	22,337.70	1,489.79
22 34 36 00-0080 Patterson Kelly Thermifirc Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters (22 34 36)		
22 34 36 00-0081 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermifirc).....	19,772.00	1,015.77
22 34 36 00-0082 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermifirc).....	21,837.14	1,218.92
22 34 36 00-0083 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermifirc).....	29,038.15	1,388.22
22 34 36 00-0084 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermifirc).....	29,932.66	1,455.93
22 34 36 00-0085 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermifirc).....	31,310.80	1,489.79
22 34 36 00-0086 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters (22 34 36)		
22 34 36 00-0087 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Modufire)	25,034.30	1,218.92
22 34 36 00-0088 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Modufire)	30,223.92	1,388.22
22 34 36 00-0089 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Modufire)	32,085.43	1,489.79
22 34 36 00-0090 Laars Mighty Therm Volume Water Heater (22 34 36)		
22 34 36 00-0091 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	6,623.60	820.83
22 34 36 00-0092 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	7,213.01	923.43
22 34 36 00-0093 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	8,400.27	1,128.63
22 34 36 00-0094 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	11,904.97	1,231.23
22 34 36 00-0095 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	13,160.84	1,436.44
22 34 36 00-0096 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	15,053.16	1,641.64
22 34 36 00-0097 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	16,656.29	1,846.85
22 34 36 00-0098 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	19,786.73	2,052.05
22 34 36 00-0099 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	20,552.40	2,154.65
22 34 36 00-0100 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	22,004.16	2,257.26
22 34 36 00-0101 Laars Mighty Therm Gas Fired Domestic Hot Water Skid Package (22 34 36)		
Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.		
22 34 36 00-0102 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	48,890.64	1,326.93
22 34 36 00-0103 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	58,967.96	1,409.86
22 34 36 00-0104 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	71,484.53	1,492.80
22 34 36 00-0105 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	85,300.44	1,575.73
22 34 36 00-0106 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	89,414.16	1,658.66
22 34 36 00-0107 Removal And Reinstallation Of Water Heater (22 34 36)		
Note: Includes storage and cleaning.		
22 34 36 00-0108 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	506.51	
22 34 36 00-0109 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon.....	1,339.34	
22 34 46 Oil-Fired Domestic Water Heaters (22 34)		



	Plumbing	22	
	Plumbing Equipment	22 30	22
	Fuel-Fired Domestic Water Heaters	22 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 46 00-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46) Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 00-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E)	1,597.71	214.51
22 34 46 00-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E)	1,577.18	214.51
22 34 46 00-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES)	1,643.14	214.51
22 34 46 00-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E)	1,732.88	220.08
22 34 46 00-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES)	2,185.75	225.65
22 34 46 00-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E)	1,859.63	225.65
22 34 46 00-0008 Oil Fired Commercial Water Heaters (22 34 46) Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 00-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Boch 71E)	2,584.88	334.30
22 34 46 00-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Boch 72E)	3,014.24	334.30
22 34 46 00-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Boch 73E)	3,030.75	334.30
22 34 46 00-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E)	4,352.11	445.73
22 34 46 00-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E)	5,950.15	557.16
22 34 46 00-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E)	7,457.39	612.89
22 35 Domestic Water Heat Exchangers (22 30)		
22 35 23 Circulating, Domestic Water heat Exchangers (22 35)		
22 35 23 00-0001 Steam Driven Water Heaters (22 35 23)		
22 35 23 00-0002 Constant Flow (22 35 23 00-0001)		
22 35 23 00-0003 EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	4,533.30	557.16
22 35 23 00-0004 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	5,653.17	682.75
22 35 23 00-0005 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	7,256.14	892.91
22 35 23 00-0006 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	9,842.75	1,243.71
22 35 23 00-0007 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	14,667.89	2,048.36
22 35 23 00-0008 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	16,045.78	2,321.48
22 35 23 00-0009 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	20,807.42	2,678.63
22 35 23 00-0010 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	24,997.16	3,165.71
22 35 23 00-0011 Variable Flow (22 35 23 00-0001)		
22 35 23 00-0012 EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	6,996.55	1,086.48
22 35 23 00-0013 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	7,994.15	1,326.61
22 35 23 00-0014 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	10,213.32	1,715.40
22 35 23 00-0015 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	13,491.16	2,393.36
22 35 23 00-0016 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	20,424.44	4,002.68
22 35 23 00-0017 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	24,543.18	4,407.96
22 35 23 00-0018 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	28,466.15	5,158.91
22 35 23 00-0019 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	35,797.44	6,163.37
22 40 Plumbing Fixtures (22)		
Note: The following Energy Policy Act Flow Rates Requirements superseded flow rates standards listed in section. Plumbing fixtures and trim should not exceed the maximum flow rates set forth in The Energy Policy Act 92. lavatory faucets - 2.5 gal/min, lavatory replacement aerators - 2.5 gal/min, kitchen faucets - 2.5 gal/min, kitchen replacement aerators - 2.5 gal/min, metering faucets - 0.25 gal/cycle, gravity tank-type toilets - 1.6 gal/flush, flushometer tank toilets - 1.6 gal/flush, electromechanical hydraulic toilets - 1.6 gal/flush, blowdown toilets - 3.5 gal/flush, urinals - 1.0 gal/flush.		
22 41 Residential Plumbing Fixtures (22 40)		
22 41 39 Residential Faucets, Supplies, And Trim (22 41)		
22 41 39 00-0001 Kitchen Faucets (22 41 39)		
22 41 39 00-0002 EA Chrome Single Handle Kitchen Faucet (Delta 100WF)	146.52	51.28
22 41 39 00-0003 EA Chrome Single Handle Kitchen Faucet With Spray (Delta 400WF)	164.48	51.28
22 41 39 00-0004 EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Delta 300WF)	164.48	51.28
22 41 39 00-0005 EA Chrome Two Handle Kitchen Faucet, Three Hole Installation 8"Center (Delta 2102-LHP+H215)	159.52	51.28
22 41 39 00-0006 EA Chrome Two Handle Kitchen Faucet With Spray, Three Hole Installation, 8" Center (Delta 2402-LHP+H215)	169.17	51.28
22 41 39 00-0007 Lavatory Faucets (22 41 39)		
22 41 39 00-0008 EA Chrome Single Acrylic Handle Bath Faucet (Delta 502WF)	127.88	36.92
For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0009 EA Chrome Single Lever Handle Bath Faucet (Delta 500WF)	127.88	36.92
For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0010 EA Chrome Two Handle Bath Faucet With Acrylic Handles (Delta 2502)	98.34	36.92
For Faucet With Brass Pop-Up, Add	16.50	
For Faucet With Plastic Pop-Up, Add	14.00	
22 41 39 00-0011 Bath And Shower Faucets (22 41 39)		

22 Plumbing**22 40 Plumbing Fixtures****22 41 Residential Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 41 39 00-0012 EA Single Lever Handle, Chrome Shower Only, Pressure Balanced/Anti-Scald Valve (American Standard T675.501) For Faucet With Polished Nickel Or Brass Finish, Add	164.31 25.00	44.51
22 41 39 00-0013 EA Single Lever Handle, Chrome Bath And Shower, Pressure Balanced/Anti-Scald Valve (American Standard T675.502) For Faucet With Polished Nickel Or Brass Finish, Add	188.88 25.00	44.51
22 41 39 00-0014 EA Two-Knob Handle Chrome Shower Only, Ceramic Valving (American Standard 3275.301) For Faucet With Polished Nickel Or Brass Finish, Add For Faucet With Lever Handles, Add	138.48 75.00 8.10	44.51
22 41 39 00-0015 EA Two-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard 3275.302) For Faucet With Polished Nickel Or Brass Finish, Add For Faucet With Lever Handles, Add	153.60 75.00 8.10	44.51
22 41 39 00-0016 EA Three-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard 3375.302) For Faucet With Polished Nickel Or Brass Finish, Add For Faucet With Lever Handles, Add	166.83 75.00 8.10	44.51
22 41 39 00-0017 EA Hand Shower With Hose And 25" Slide Bar (American Standard 1662.602)	178.56	27.86
22 41 39 00-0018 EA Wall Mount, Hand Shower With Hose (Delta 55011)	152.25	27.86
22 41 39 00-0019 EA Wall Mount, Hand Shower Unit With Hose (Alsons 62001 DS)	181.89	27.86
22 41 39 00-0020 Laundry Faucets (22 41 39)		
22 41 39 00-0021 EA Stream Straightener Nozzle Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2123)	112.49	32.76
22 41 39 00-0022 Laundry/Wash Basin Faucets (22 41 39)		
22 41 39 00-0023 EA Hose Thread Spout Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121)	113.23	32.76
22 41 39 00-0024 EA Hose Thread Spout With Vacuum Breaker Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121+RP25695)	154.88	36.11
22 41 39 00-0025 Other Faucets (22 41 39)		
22 41 39 00-0026 EA Sillcock, Compact, Brass, IPS Or Copper To Hose	26.41	8.36
22 42 Commercial Plumbing Fixtures (22 40)		
Note: Prices are for commercial grade unless otherwise indicated. Includes final connection and all associated trim (seat, supply stop and line, wax seal, valve). Excludes rough-in within the wall and carrier.		
22 42 13 Commercial Water Closets, Urinals, And Bidets (22 42)		
22 42 13 13 Commercial Water Closets (22 42 13)		
22 42 13 13-0001 Vitreous China Water Closets (22 42 13 13) Note: With a 2" ball pass.		
22 42 13 13-0002 Floor Mounted Elongated Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Madera™)	608.18	106.66
22 42 13 13-0004 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Colorado)	602.20	106.66
22 42 13 13-0005 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Priolo®)	723.85	106.66
22 42 13 13-0006 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Yorkville™)	934.59	106.66
22 42 13 13-0007 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Cadet™)	836.86	106.66
22 42 13 13-0008 EA 1.28 GPF Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Toto® CT705E)	642.30	106.66
22 42 13 13-0009 Wall Hung Elongated Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0010 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Aftwall®)	707.46	131.28
22 42 13 13-0011 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Aftwall® ADA Retrofit)	874.32	131.28
22 42 13 13-0012 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Glenwall™)	1,103.01	131.28
22 42 13 13-0013 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT708E Or CT708EV)	783.04	131.28
22 42 13 13-0014 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn Z5615-BWL)	664.31	131.28
22 42 13 13-0015 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Sloan ST-2059-A)	696.67	131.28
22 42 13 13-0016 Floor Mounted Elongated Handicapped Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0017 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Madera™ ADA)	616.52	106.66
22 42 13 13-0018 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Colorado Right Height®)	631.14	106.66
22 42 13 13-0019 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Right Width™ Right Height®)	695.63	106.66



	Plumbing	22	
	Plumbing Fixtures	22 40	22
	Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0020 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Huron).....	775.40	106.66
22 42 13 13-0021 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Priolo® ADA)	772.08	106.66
22 42 13 13-0022 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Back Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Yorkville™ ADA)	1,026.69	106.66
22 42 13 13-0023 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Cadet Right Height™ ADA)	867.14	106.66
22 42 13 13-0024 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT705ELN).....	682.20	106.66
22 42 13 13-0025 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn HET Z5667-BWL).....	648.64	106.66
22 42 13 13-0026 Floor Mounted, 10" High Bowl, Children's Height Vitreous China Water Closets (22 42 13 13-0001)		
Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0027 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Elongated Vitreous China Water Closet (Kohler® Primary™)	648.68	106.66
22 42 13 13-0028 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™)	623.82	106.66
22 42 13 13-0029 EA 2 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™)	727.54	106.66
22 42 13 13-0030 Stainless Steel Water Closets (22 42 13 13)		
22 42 13 13-0031 EA Wall Hung Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2105-T-1-HS).....	2,628.51	230.77
22 42 13 13-0032 EA Floor Mounted Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2120-T-3-HS)	2,762.81	230.77
22 42 13 13-0033 Water Closet Carriers (22 42 13 13)		
22 42 13 13-0034 Pipe Grip Adaptor Type, Water Closet Carriers (22 42 13 13-0033)		
Note: Includes coated cast iron construction, plated hardware and adjustable feet. Excludes waste piping and fittings.		
22 42 13 13-0035 EA Pipe Grip Adaptor Type, Water Closet Carrier.....	409.68	54.16
22 42 13 13-0036 No-Hub, Water Closet Carriers (22 42 13 13-0033)		
Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0037 EA Vertical Close With Offset, No-Hub, Single Water Closet Carrier	601.23	54.16
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-46.99	
For Positioning Frame, Add	33.47	
For Supply Pipe Support, Add	34.17	
For Vandal Proof Trim, Add	40.00	
For Auxiliary Inlet, Add	144.39	
For Special Duty 500 LB Carrier, Add	223.12	
22 42 13 13-0038 EA Vertical Close On Stack, No-Hub, Single Water Closet Carrier	601.23	54.16
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-46.99	
For Positioning Frame, Add	33.47	
For Supply Pipe Support, Add	34.17	
For Vandal Proof Trim, Add	40.00	
For Auxiliary Inlet, Add	144.39	
For Special Duty 500 LB Carrier, Add	223.12	
22 42 13 13-0039 EA Horizontal Adjustable, No-Hub, Single Water Closet Carrier	651.05	54.16
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-46.99	
For Positioning Frame, Add	33.47	
For Supply Pipe Support, Add	34.17	
For Vandal Proof Trim, Add	40.00	
For Auxiliary Inlet, Add	144.39	
For Horizontal No Hub Cast Long Barrel, Add	142.01	
For Carrier For Wide Chase Installations, Add	197.28	
For Special Duty 1,000 LB Carrier, Add	223.13	
22 42 13 13-0040 EA Vertical Adjustable On Stack, No-Hub, Single Water Closet Carrier	714.90	54.16
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-46.99	
For Positioning Frame, Add	33.47	
For Supply Pipe Support, Add	34.17	
For Vandal Proof Trim, Add	40.00	
For 4" Branch, Add	110.43	
For Auxiliary Inlet, Add	144.39	
For Carrier For Wide Chase Installations, Add	197.28	
For Double 4" Branches, Add	221.56	
For Special Duty 1,000 LB Carrier, Add	223.13	
22 42 13 13-0041 EA Vertical Close With Offset, No-Hub, Double Water Closet (Back To Back) Carrier	988.97	79.49
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-94.01	
For Positioning Frame, Add	74.62	
For Supply Pipe Support, Add	76.03	
For Vandal Proof Trim, Add	80.00	
For Auxiliary Inlet, Add	159.77	
For Special Duty 500 LB Carrier, Add	446.24	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0042	EA		Vertical Close On Stack, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,014.24	79.49
			For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-94.01	
			For Positioning Frame, Add	74.62	
			For Supply Pipe Support, Add	76.03	
			For Vandal Proof Trim, Add	80.00	
			For Auxiliary Inlet, Add	159.77	
			For Special Duty 500 LB Carrier, Add	446.24	
22 42 13 13-0043	EA		Vertical Adjustable On Stack, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,215.61	79.49
			For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-94.01	
			For Positioning Frame, Add	74.62	
			For Supply Pipe Support, Add	76.03	
			For Vandal Proof Trim, Add	80.00	
			For 4" Branch, Add	118.12	
			For Auxiliary Inlet, Add	159.77	
			For Double 4" Branches, Add	236.94	
			For Carrier For Wide Chase Installations, Add	440.71	
			For Special Duty 1,000 LB Carrier, Add	446.25	
22 42 13 13-0044	EA		Horizontal Adjustable, No-Hub, Double Water Closet (Back To Back) Carrier	1,149.65	79.49
			For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-94.01	
			For Positioning Frame, Add	74.62	
			For Supply Pipe Support, Add	76.03	
			For Vandal Proof Trim, Add	80.00	
			For Horizontal No Hub Cast Long Barrel, Add	149.70	
			For Carrier For Wide Chase Installations, Add	440.71	
			For Special Duty 1,000 LB Carrier, Add	446.25	
22 42 13 13-0045 Hub And Spigot, Water Closet Carriers (22 42 13 13-0033)					
Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.					
22 42 13 13-0046	EA		Vertical Close With Offset, Hub And Spigot, Single Water Closet Carrier.....	601.23	54.16
			For Positioning Frame, Add	33.47	
			For Supply Pipe Support, Add	34.17	
			For Vandal Proof Trim, Add	40.00	
			For Hanger Type Closet Adapter, Add	100.34	
			For Auxiliary Inlet, Add	144.39	
22 42 13 13-0047	EA		Vertical Close On Stack, Hub And Spigot, Single Water Closet Carrier.....	601.23	54.16
			For Positioning Frame, Add	33.47	
			For Supply Pipe Support, Add	34.17	
			For Vandal Proof Trim, Add	40.00	
			For Auxiliary Inlet, Add	144.39	
			For Special Duty 500 LB Carrier, Add	223.12	
22 42 13 13-0048	EA		Vertical Adjustable On Stack, Hub And Spigot, Single Water Closet Carrier	738.75	54.16
			For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-46.99	
			For Positioning Frame, Add	33.47	
			For Supply Pipe Support, Add	34.17	
			For Vandal Proof Trim, Add	40.00	
			For 4" Branch, Add	110.43	
			For Auxiliary Inlet, Add	144.39	
			For Carrier For Wide Chase Installations, Add	197.28	
			For Double 4" Branches, Add	221.56	
			For Special Duty 1,000 LB Carrier, Add	223.13	
22 42 13 13-0049	EA		Vertical Close With Offset, Hub And Spigot, Double Water Closet (Back To Back) Carrier.....	988.97	79.49
			For Positioning Frame, Add	74.62	
			For Supply Pipe Support, Add	76.03	
			For Vandal Proof Trim, Add	80.00	
			For Auxiliary Inlet, Add	159.77	
			For Hanger Type Closet Adapter, Add	200.67	
22 42 13 13-0050	EA		Vertical Adjustable On Stack, Hub And Spigot, Double Water Closet (Back To Back) Carrier	1,239.47	79.49
			For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-94.01	
			For Positioning Frame, Add	74.62	
			For Supply Pipe Support, Add	76.03	
			For Vandal Proof Trim, Add	80.00	
			For 4" Branch, Add	118.12	
			For Auxiliary Inlet, Add	159.77	
			For Double 4" Branches, Add	236.94	
			For Carrier For Wide Chase Installations, Add	440.71	
			For Special Duty 1,000 LB Carrier, Add	446.25	
22 42 13 13-0051 Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Water Closet Carriers (22 42 13 13-0033)					
Note: Includes coated cast iron construction, plastic fitting adaptor with extension and plated hardware.					
22 42 13 13-0052	EA		Vertical On Stack, Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Single Water Closet Carrier.....	478.44	54.16
			For Positioning Frame, Add	33.47	
			For Supply Pipe Support, Add	34.17	
			For Vandal Proof Trim, Add	40.00	
			For Hanger Type Closet Adapter, Add	100.34	
22 42 13 13-0053 Institutional Water Closet Carriers (22 42 13 13-0033)					
Note: Includes coated cast iron construction, ABS extension with integral test cap, buttress feet, plated hardware and neoprene fixture gasket.					



Plumbing			22
Plumbing Fixtures			22 40
Commercial Plumbing Fixtures			22 42

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0054	EA	Vertical On Stack, No-Hub, 90 Degree Institutional, Double Waste Fitting With Vent And Carrier, Water Closet Carrier		1,565.04	79.49
		For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct		-94.01	
		For Positioning Frame, Add		74.62	
		For Supply Pipe Support, Add		76.03	
		For Vandal Proof Trim, Add		80.00	
		For Auxiliary Inlet, Add		159.77	
22 42 13 13-0055		Water Closet Flush Valves (22 42 13 13)			
22 42 13 13-0056	EA	Exposed Manual Water Closet Flush Valve (Sloan Regal-115XL)		198.30	34.97
22 42 13 13-0057	EA	Exposed Manual Water Closet Flush Valve (Sloan Regal-113-1.6)		193.17	34.97
22 42 13 13-0058	EA	Exposed Manual Water Closet Flush Valve (Sloan Regal-110 Or 111)		219.21	34.97
22 42 13 13-0059	EA	Concealed Manual Water Closet Flush Valve, Back Spud (Sloan Royal-140)		301.01	34.97
22 42 13 13-0060	EA	Concealed Manual Water Closet Flush Valve, Top Spud (Sloan Royal-142)		330.37	34.97
22 42 13 13-0061	EA	Exposed Infrared Water Closet Flush Valve (Sloan Royal 115-1.6 ES-S)		571.41	34.97
22 42 13 13-0062	EA	Concealed Infrared Water Closet Flush Valve, Back Spud (Sloan Royal-140 ES-S)		582.09	34.97
22 42 13 13-0063	EA	Concealed Infrared Water Closet Flush Valve, Top Spud (Sloan Royal-153-1.6-ES-S)		611.70	34.97
22 42 13 13-0064	EA	Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8113)		571.94	34.97
22 42 13 13-0065	EA	Dual Flush Water Closet Flush Valve (Sloan UpperCut WES-115)		271.06	20.51
		Note: "Green". 1.6 Gallons or 1.1 Gallons per flush. Includes instructional placards on proper operation.			
22 42 13 13-0066	EA	Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8110)		514.03	34.97
22 42 13 13-0067	EA	Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima EBV-89AM)		288.12	34.97
22 42 13 13-0068	EA	Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40118X)		256.37	34.97
22 42 13 13-0069	EA	Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima Smooth EBV-200A)		248.39	30.77
22 42 13 13-0070	EA	Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40180X)		268.34	30.77
22 42 13 13-0071	EA	Exposed Infrared Water Closet Flush Valve 1.28 GPF (Toto EcoPower TET1LN)		579.06	34.97
22 42 13 13-0072	EA	Exposed Infrared Water Closet Flush Valve (1-1/2" V.B.) 1.28 GPF (Toto EcoPower TET1LN32)		630.67	34.97
22 42 13 13-0073	EA	Concealed Infrared Water Closet Flush Valve, Back Spud 1.28 GPF (Toto EcoPower TET2LN31 Or TET3LN31)		801.44	34.97
22 42 13 13-0074	EA	Concealed Infrared Water Closet Flush Valve, Top Spud 1.28 GPF (Toto EcoPower TET2LN32 Or TET3LN32)		801.44	34.97
22 42 13 13-0075	EA	Exposed Infrared Water Closet Flush Valve (Zurn ZEMS6000AV-HET-IS)		527.90	34.97
22 42 13 13-0076	EA	Exposed Infrared Water Closet Flush Valve (Zurn ZTS6200EV)		523.52	34.97
22 42 13 13-0077	EA	Slide Over Handle AC Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan EL-600-A)		259.64	30.77
22 42 13 13-0078	EA	6 Volt DC, 120 Volt AC Hardwired Power Transformer (Sloan EL-451)		81.51	5.20
22 42 13 13-0079	EA	Exposed Solar/Battery Powered Water Closet Flush Valve (Sloan Solis 8111-1.28)		538.32	34.97
22 42 13 13-0080	EA	Exposed Manual Water Closet Flush Valve (Zurn Z6000AV-HET)		211.09	34.97
22 42 13 13-0081	EA	Exposed Battery Powered Water Closet Flush Valve (Zurn ZER6000AV-HET)		546.97	34.97
22 42 13 13-0082		Removal And Reinstallation Of Fixtures And Trim (22 42 13 13)			
		Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.			
22 42 13 13-0083	EA	Removal And Reinstallation Of Wall Hung Water Closet With Tank		468.62	
22 42 13 13-0084	EA	Removal And Reinstallation Of Wall Hung Water Closet With Flush Valve		468.62	
22 42 13 13-0085	EA	Removal And Reinstallation Of Floor Mount Water Closet With Tank		360.36	
22 42 13 13-0086	EA	Removal And Reinstallation Of Floor Mount Water Closet With Flush Valve		360.36	
22 42 13 16		Commercial Urinals (22 42 13)			
22 42 13 16-0001		Vitreous China Urinals (22 42 13 16)			
		Note: Excludes flush valve unless indicated otherwise.			
22 42 13 16-0002		Wall Hung Urinals (22 42 13 16-0001)			
22 42 13 16-0003	EA	Washout, Wall Hung, Vitreous China Urinal (American Standard Maybrook™)		568.07	109.74
22 42 13 16-0004	EA	Washout, Wall Hung, Vitreous China Urinal (American Standard Decorum™)		589.34	109.74
22 42 13 16-0005	EA	Washout, Wall Hung, Vitreous China Urinal With Top Spud (American Standard Washbrook®)		690.39	109.74
22 42 13 16-0006	EA	Blowout, Wall Hung, Vitreous China Urinal (American Standard Lynbrook™)		753.54	109.74
22 42 13 16-0007	EA	Siphon Jet, Wall Hung, Vitreous China Urinal (American Standard Trimbrook™)		688.39	109.74
22 42 13 16-0008	EA	Siphon Jet, Wall Hung, Vitreous China Urinal (American Standard Allbrook™)		585.13	109.74
22 42 13 16-0009	EA	Washout, Wall Hung, Vitreous China Urinal (Toto® UT447E Or UT447EV)		706.37	109.74
22 42 13 16-0010	EA	Washout, Wall Hung, Vitreous China Urinal (Toto® UT104E Or UT104EV)		607.51	109.74
22 42 13 16-0011	EA	Washout, Wall Hung, Vitreous China Urinal (Zurn Z5798)		655.54	109.74
22 42 13 16-0012	EA	0.125 To 0.5 GPF, HEU, Washout, Wall Hung, Vitreous China Urinal (Sloan SU-1009-A)		600.44	109.74
22 42 13 16-0013	EA	1.0 GPF, HEU, Washout, Wall Hung, Vitreous China Urinal (Sloan SU-1006-A)		598.35	109.74
22 42 13 16-0014		Floor Mounted Urinals (22 42 13 16-0001)			
22 42 13 16-0015	EA	Washout, Floor Mounted, Vitreous China Urinal (American Standard Stallbrook™)		927.37	138.46
22 42 13 16-0016		Waterfree Urinals (22 42 13 16-0001)			
22 42 13 16-0017	EA	Waterfree, Wall Hung, Vitreous China Urinal (American Standard Small FloWise® Flush-Free)		530.30	76.93
		For Colored Fixtures, Add		66.90	
		For >1, Deduct		-31.22	
22 42 13 16-0018	EA	Waterfree, Wall Hung, Vitreous China Urinal (American Standard Medium FloWise® Flush-Free)		592.79	76.93
		For Colored Fixtures, Add		66.90	
		For >1, Deduct		-38.35	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 16-0019 EA Waterfree, Wall Hung, Vitreous China Urinal (American Standard Large FloWise® Flush-Free).....	624.04	76.93
For Colored Fixtures, Add	66.90	
For >1, Deduct	-41.91	
22 42 13 16-0020 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-1000)	694.42	76.93
For Colored Fixtures, Add	66.90	
For >1, Deduct	-49.93	
22 42 13 16-0021 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-2000)	646.28	76.93
For Colored Fixtures, Add	66.90	
For >1, Deduct	-44.45	
22 42 13 16-0022 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-4000)	524.46	76.93
For Colored Fixtures, Add	66.90	
For >1, Deduct	-30.56	
22 42 13 16-0023 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-5000)	524.46	76.93
For Colored Fixtures, Add	66.90	
For >1, Deduct	-30.56	
22 42 13 16-0024 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-7000)	620.17	76.93
For Colored Fixtures, Add	66.90	
For >1, Deduct	-41.47	
22 42 13 16-0025 EA Waterfree, Wall Hung, Stainless Steel Urinal (Falcon F-9000)	876.01	76.93
For >1, Deduct	-70.63	
22 42 13 16-0026 Stainless Steel Urinals (22 42 13 16)		
22 42 13 16-0027 EA Wall Hung Urinal, Stainless Steel, Blowout Jet (Acorn 2160-T-1).....	2,704.05	230.77
22 42 13 16-0028 EA 5' Wall Hung Trough Urinal, Stainless Steel With Strainer And Washdown Pipe (Elkay EU6014C)	3,496.38	282.05
22 42 13 16-0029 Urinal Carriers (22 42 13 16)		
22 42 13 16-0030 Floor Mounted, Urinal Carriers (22 42 13 16-0029)		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 13 16-0031 EA Floor Mounted Hanger Plate Type, Single Urinal Carrier	348.42	38.98
For Up To 4" Extension Sleeves And Hardware, Add	14.73	
22 42 13 16-0032 EA Floor Mounted Bearing Plate Type, Single Urinal Carrier	375.08	38.98
For Up To 4" Extension Sleeves And Hardware, Add	14.73	
22 42 13 16-0033 Wall Mounted, Urinal Carriers (22 42 13 16-0029)		
Note: Includes wall plate and adjustable supporting rods.		
22 42 13 16-0034 EA Wall Mounted Hanger Plate Type, Single Urinal Carrier	182.13	38.98
For Up To 6-1/2" Extension Sleeves And Hardware, Add	14.73	
22 42 13 16-0035 Urinal Flush Valves (22 42 13 16)		
22 42 13 16-0036 EA Exposed Manual Urinal Flush Valve, 3/4" Top Spud (Sloan Regal 186 XL)	186.80	34.97
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 13 16-0037 EA Exposed Manual Urinal Flush Valve, 1-1/4" Top Spud (Sloan Regal 180).....	199.29	34.97
Note: 1.0, 1.5 or 3.5 GPF.		
22 42 13 16-0038 EA Concealed Manual Urinal Flush Valve, Back Spud (Sloan Royal 195)	258.94	34.97
Note: 1.0 or 1.5 GPF.		
22 42 13 16-0039 EA Concealed Manual Urinal Flush Valve, Top Spud (Sloan Royal 197)	308.08	34.97
Note: 1.0 or 1.5 GPF.		
22 42 13 16-0040 EA Exposed Infrared Urinal Flush Valve (Sloan Royal 186-ES-S)	470.06	34.97
Note: 1.0 or 1.5 GPF.		
22 42 13 16-0041 EA Concealed Infrared Urinal Flush Valve, Back Spud (Sloan Royal 195-WB-ES-S)	622.97	34.97
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 13 16-0042 EA Concealed Infrared Urinal Flush Valve, Top Spud (Sloan Royal 197-WB-ES-S).....	695.80	34.97
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 13 16-0043 EA Exposed Battery Powered Urinal Flush Valve, Top Spud (Sloan G2 Opt+8186-1).....	462.75	34.97
Note: 1.0 GPF.		
22 42 13 16-0044 EA Exposed Infrared Urinal Flush Valve (Toto EcoPower TEU1LN)	579.06	34.97
Note: 0.5 GPF.		
22 42 13 16-0045 EA Exposed Infrared Urinal Flush Valve (3/4" V.B.) (Toto EcoPower TEU1LN12).....	627.35	34.97
Note: 0.5 GPF.		
22 42 13 16-0046 EA Concealed Infrared Urinal Flush Valve, 0.5 GPF (Toto EcoPower TEU2LN21 Or TEU3LN21).....	976.56	34.97
Note: 0.5 GPF.		
22 42 13 16-0047 EA Exposed Solar/Battery Powered Urinal Flush Valve, Top Spud (Sloan Solis 8186-0.13)	487.04	34.97
Note: 0.13 GPF.		
22 42 13 16-0048 EA Exposed Manual Urinal Flush Valve, 3/4" Top Spud (Zurn Z6003AV-ULF)	210.24	34.97
Note: 0.125 GPF.		
22 42 13 16-0049 EA Exposed Battery Powered Urinal Flush Valve, Top Spud (Zurn ZTR6203-ULF)	497.08	34.97
Note: 0.125 GPF.		
22 42 13 16-0050 EA Exposed Infrared Urinal Flush Valve (Zurn ZEMS6003AV-ULF-IS).....	509.45	34.97
Note: 0.125 GPF.		
22 42 13 16-0051 Removal And Reinstallation Of Fixtures And Trim (22 42 13 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 16-0052 EA Removal And Reinstallation Of Wall Hung Urinal With Flush Valve.....	467.23	

22 42 16 Commercial Lavatories And Sinks (22 42)



Plumbing		22
Plumbing Fixtures		22 40
Commercial Plumbing Fixtures		22 42

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 00-0001 Lavatories (22 42 16) Note: Includes trap, drain and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 00-0002 Wall Hung Lavatories (22 42 16 00-0001)		
22 42 16 00-0003 EA 19" x 17" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	513.94	68.71
22 42 16 00-0004 EA 20" x 18" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	536.55	68.71
22 42 16 00-0005 EA 22" x 19" Porcelain Enameled Cast Iron Wall Hung Lavatory (Kohler® Hampton™)	679.26	68.71
22 42 16 00-0006 EA 18" x 16" Vitreous China Wall Hung Lavatory (American Standard Penlyn™)	472.73	68.71
22 42 16 00-0007 EA 19" x 17" Vitreous China Wall Hung Lavatory (American Standard Declyn™)	409.57	68.71
22 42 16 00-0008 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Roxalyn™)	483.36	68.71
22 42 16 00-0009 EA 20" x 18" Vitreous China Wall Hung Lavatory (Kohler® Soho®)	513.57	68.71
22 42 16 00-0010 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Lucerne™)	528.19	68.71
22 42 16 00-0011 EA 27" x 20" Wheelchair Accessible, Vitreous China Wall Hung Lavatory (American Standard Wheel Chair Users)	602.36	68.71
22 42 16 00-0012 Countertop Lavatories (22 42 16 00-0001)		
22 42 16 00-0013 EA 20" x 18" Oval Vitreous China Countertop Lavatory (Kohler® Pennington®)	473.44	83.08
22 42 16 00-0014 EA 21" x 18" Vitreous China Countertop Lavatory (American Standard Cadet™ Oval)	481.54	83.08
22 42 16 00-0015 EA 19" Diameter Enameled Steel Countertop Lavatory (American Standard Colony Round™)	450.29	83.08
22 42 16 00-0016 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Farmington™)	504.19	83.08
22 42 16 00-0017 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Ellington™)	528.20	83.08
22 42 16 00-0018 EA 24" x 18" Enameled Cast Iron Countertop Lavatory (Kohler® Thoreau®)	668.63	89.74
22 42 16 00-0019 Undercounter Lavatories (22 42 16 00-0001)		
22 42 16 00-0020 EA 15" x 12" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	485.03	83.08
22 42 16 00-0021 EA 17" x 14" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	455.12	83.08
22 42 16 00-0022 EA 19" x 16" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	455.12	83.08
22 42 16 00-0023 EA 21" x 17" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	491.45	83.08
22 42 16 00-0024 EA 15" x 12" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	467.99	83.08
22 42 16 00-0025 EA 17" x 14" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	462.48	83.08
22 42 16 00-0026 EA 19" x 15" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	468.09	83.08
22 42 16 00-0027 EA 21" x 17" Oval Vitreous China Undercounter Lavatory (Crane Tiara™)	451.19	83.08
22 42 16 00-0028 EA 18" x 12" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®)	591.95	83.08
22 42 16 00-0029 EA 21" x 14" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®)	591.95	83.08
22 42 16 00-0030 Pedestal Lavatories (22 42 16 00-0001)		
22 42 16 00-0031 EA 19" x 21" x 34" High Vitreous China Pedestal Sink (American Standard Colony™)	526.91	197.43
22 42 16 00-0032 Pre-Molded Culture Marble Lavatory Vanity (22 42 16 00-0001) Note: Includes splash. Single sink, center or offset. Bowl is either oval, shell shape or rectangular.		
22 42 16 00-0033 EA 17" x 20" Pre-Molded Culture Marble Vanity Top With Lavatory	222.57	64.10
For Colored Fixtures, Add	27.36	
22 42 16 00-0034 EA 18" x 24" Pre-Molded Culture Marble Vanity Top With Lavatory	271.09	76.93
For Colored Fixtures, Add	34.01	
22 42 16 00-0035 EA 18" x 30" Pre-Molded Culture Marble Vanity Top With Lavatory	296.24	82.05
For Colored Fixtures, Add	38.33	
22 42 16 00-0036 EA 18" x 36" Pre-Molded Culture Marble Vanity Top With Lavatory	317.97	87.18
For Colored Fixtures, Add	41.66	
22 42 16 00-0037 EA 19" x 25" Pre-Molded Culture Marble Vanity Top With Lavatory	276.82	76.93
For Colored Fixtures, Add	35.67	
22 42 16 00-0038 EA 19" x 31" Pre-Molded Culture Marble Vanity Top With Lavatory	299.66	82.05
For Colored Fixtures, Add	39.33	
22 42 16 00-0039 EA 19" x 37" Pre-Molded Culture Marble Vanity Top With Lavatory	320.25	87.18
For Colored Fixtures, Add	42.32	
22 42 16 00-0040 EA 19" x 43" Pre-Molded Culture Marble Vanity Top With Lavatory	354.02	89.74
For Colored Fixtures, Add	50.63	
22 42 16 00-0041 EA 19" x 49" Pre-Molded Culture Marble Vanity Top With Lavatory	382.11	92.31
For Colored Fixtures, Add	57.28	
22 42 16 00-0042 EA 22" x 25" Pre-Molded Culture Marble Vanity Top With Lavatory	299.75	76.93
For Colored Fixtures, Add	42.32	
22 42 16 00-0043 EA 22" x 31" Pre-Molded Culture Marble Vanity Top With Lavatory	338.63	82.05
For Colored Fixtures, Add	50.63	
22 42 16 00-0044 EA 22" x 37" Pre-Molded Culture Marble Vanity Top With Lavatory	360.36	87.18
For Colored Fixtures, Add	53.95	
22 42 16 00-0045 EA 22" x 43" Pre-Molded Culture Marble Vanity Top With Lavatory	383.82	89.74
For Colored Fixtures, Add	59.27	
22 42 16 00-0046 EA 22" x 49" Pre-Molded Culture Marble Vanity Top With Lavatory	405.03	92.31
For Colored Fixtures, Add	63.93	
22 42 16 00-0047 EA 22" x 55" Pre-Molded Culture Marble Vanity Top With Lavatory	433.62	97.43
For Colored Fixtures, Add	69.25	
22 42 16 00-0048 Stainless Steel Lavatories (22 42 16 00-0001)		
22 42 16 00-0049 EA 18" x 15" Wall Mounted Lavatory, Stainless Steel (Acorn 1950-1)	1,406.38	179.49
22 42 16 00-0050 Solid Surface Multi-Station Lavatory Systems (22 42 16 00-0001) Note: ADA compliant. Includes integral faucets.		

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 00-0051 EA 2 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-2)	3,601.19	138.48
For Integral Liquid Soap Dispenser, Add	171.00	
For Integral Photovoltaic Power Panels, Add	563.00	
22 42 16 00-0052 EA 3 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-3)	5,233.62	138.48
For Integral Liquid Soap Dispenser, Add	171.00	
For Integral Photovoltaic Power Panels, Add	657.00	
22 42 16 00-0053 EA 12" Length, Solid Surface Countertop Extension (Bradley MG-EXT-12)	267.88	46.16
22 42 16 00-0054 EA 18" Length, Solid Surface Countertop Extension (Bradley MG-EXT-18)	323.39	46.16
22 42 16 00-0055 EA 36" Length, Solid Surface Countertop Extension (Bradley MG-EXT-36)	606.11	46.16
22 42 16 00-0056 Sinks (22 42 16) Note: Includes drain, trap and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 00-0057 Kitchen Sinks (22 42 16 00-0056)		
22 42 16 00-0058 EA 25" x 22" x 8-3/4" Enameled Cast Iron Kitchen Sink, Single Bowl (Kohler® Mayfield®).....	658.16	96.41
22 42 16 00-0059 EA 22" x 33" x 9-5/8" Enameled Cast Iron Kitchen Sink, Double Bowl (Kohler® Brookfield®).....	868.04	109.74
22 42 16 00-0060 EA 15" x 17" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1517)	782.83	94.36
For 18 Gauge, Add	199.11	
22 42 16 00-0061 EA 17" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1722)	801.57	94.36
For 18 Gauge, Add	208.48	
22 42 16 00-0062 EA 22" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2222)	843.75	94.36
For 18 Gauge, Add	229.57	
22 42 16 00-0063 EA 25" x 22" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2522)	884.17	96.41
For 18 Gauge, Add	243.63	
22 42 16 00-0064 EA 31" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR3122)	1,107.67	109.74
For 18 Gauge, Add	335.80	
22 42 16 00-0065 EA 33" x 21" x 7-1/2" Stainless Steel Kitchen Sink, Double Bowl, 20 Gauge (Elkay PSR3321)	1,130.35	109.74
For 18 Gauge, Add	346.96	
22 42 16 00-0066 EA 33" x 22" x 8" Stainless Steel Kitchen Sink, Double Bowl, 18 Gauge (Elkay LR3322).....	1,429.51	109.74
22 42 16 00-0067 EA 15" x 17" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR151710).....	1,086.67	94.36
22 42 16 00-0068 EA 17" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR172210).....	1,107.76	94.36
22 42 16 00-0069 EA 22" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR222210).....	1,160.88	94.36
22 42 16 00-0070 EA 25" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR252210).....	1,234.88	96.41
22 42 16 00-0071 EA 31" x 22" x 11-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR312210)	1,489.63	109.74
22 42 16 00-0072 Undermount Kitchen Sinks (22 42 16 00-0056)		
22 42 16 00-0073 EA 21" x 15" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU2115) With Strainer (Elkay LK99)	974.13	94.36
22 42 16 00-0074 EA 21" x 15" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU211510) With Strainer (Elkay LK99)	971.85	94.36
22 42 16 00-0075 EA 21" x 15" x 7-1/2" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH2115) With Strainer (Elkay LK99)	981.94	94.36
22 42 16 00-0076 EA 21" x 15" x 10" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH211510) With Strainer (Elkay LK99)	1,035.06	94.36
22 42 16 00-0077 Multi-Station Wash Sink, Wall Mounted (22 42 16 00-0056) Note: Includes concealed wall hanger, soap dish(s), strainer, supply lines and P-Trap. Excludes faucets.		
22 42 16 00-0078 EA 36" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)	1,842.68	166.67
Note: Excludes faucets.		
22 42 16 00-0079 EA 48" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)	2,449.67	179.49
Note: Excludes faucets.		
22 42 16 00-0080 EA 60" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)	2,812.43	192.30
Note: Excludes faucets.		
22 42 16 00-0081 EA 72" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™)	3,072.44	205.12
Note: Excludes faucets.		
22 42 16 00-0082 EA 48" Wide, 2 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)	1,980.60	128.21
Note: Excludes faucets.		
22 42 16 00-0083 EA 62" Wide, 3 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)	2,199.06	141.02
Note: Excludes faucets.		
22 42 16 00-0084 EA 80" Wide, 4 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)	2,413.32	153.84
Note: Excludes faucets.		
22 42 16 00-0085 EA 102" Wide, 5 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951)	2,680.51	173.07
Note: Excludes faucets.		
22 42 16 00-0086 EA 27" Diameter, 2 Person, Stainless Steel, Sensor Operated Compact Wash Fountain.....	2,574.95	282.05
Note: Includes sensor operated spray heads.		
22 42 16 00-0087 Laundry Sinks (22 42 16 00-0056)		
22 42 16 00-0088 EA 23" x 21" Molded Stone Single Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FL-1).....	610.95	109.74
22 42 16 00-0089 EA 40" x 24" Molded Stone Double Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FLTD-II).....	706.01	109.74
22 42 16 00-0090 EA 22" x 17" Molded Stone Single Laundry Sink, Drop-In (Fiat Products DL1)	609.07	109.74
22 42 16 00-0091 EA 24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210)	945.05	109.74
22 42 16 00-0092 EA 48" x 21" Enameled Cast Iron Double Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2220)	1,351.15	123.08
22 42 16 00-0093 Refinish Sink/Lavatory (22 42 16 00-0056)		
22 42 16 00-0094 EA Refinish Sink/Lavatory	234.55	



	Plumbing	22	
	Plumbing Fixtures	22 40	22
	Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 00-0095 Service Sinks (22 42 16 00-0095)		
22 42 16 00-0096 EA 22" x 18" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Lakewell™)	932.67	165.13
22 42 16 00-0097 EA 24" x 20" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Akron™)	984.52	165.13
22 42 16 00-0098 EA 28" x 28" Enameled Cast Iron Floor Type Corner Service Sink With Removable Vinyl Coated Rim Guard (American Standard Florwell™)	1,260.27	218.46
22 42 16 00-0099 EA 12" x 12" x 10" Cast Iron Floor Sink With Dome Strainer And Full Grate (Zurn FD2377-PO3-F)	528.01	153.84
22 42 16 00-0100 EA 24" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB2424)	610.79	153.84
22 42 16 00-0101 EA 36" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB3624)	676.99	184.61
22 42 16 00-0102 EA 24" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2424-010)	568.72	153.84
22 42 16 00-0103 EA 36" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2436-010)	648.32	184.61
22 42 16 00-0104 EA 24" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-24)	638.27	153.84
22 42 16 00-0105 EA 36" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-3624)	783.07	184.61
22 42 16 00-0106 Stainless Steel Sink And Drainboard (22 42 16 00-0056)		
22 42 16 00-0107 EA 24" x 24" Stainless Steel Sink With One Compartment And Drainboard , 14 Gauge Stainless Steel With Tubular Adjustable Legs (Advance Tabco 94-41-24-24L)	2,739.01	256.41
22 42 16 00-0108 Fixture Carriers (22 42 16)		
22 42 16 00-0109 Lavatory Carriers (22 42 16 00-0108)		
22 42 16 00-0110 Floor Mounted, Lavatory Carriers (22 42 16 00-0109)		
22 42 16 00-0111 Floor Mounted Plate Type, Lavatory Carriers (22 42 16 00-0110) Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 16 00-0112 EA Floor Mounted Hanger Plate Type, Single Lavatory Carrier	348.42	38.98
For Up To 4" Extension Sleeves And Hardware, Add	14.73	
For Valve Plate For Attaching To Upright, Add	56.80	
For Corner Carrier, Add	110.80	
22 42 16 00-0113 EA Floor Mounted Bearing Plate Type, Single Lavatory Carrier	375.08	38.98
For Up To 4" Extension Sleeves And Hardware, Add	14.73	
For Valve Plate For Attaching To Upright, Add	56.80	
22 42 16 00-0114 EA Floor Mounted Hanger Plate Type, Double Lavatory (Back To Back) Carrier	422.09	38.98
For Up To 4" Extension Sleeves And Hardware, Add	29.47	
For Valve Plate For Attaching To Upright, Add	113.60	
22 42 16 00-0115 EA Floor Mounted Bearing Plate Type, Double Lavatory (Back To Back) Carrier	476.12	38.98
For Up To 4" Extension Sleeves And Hardware, Add	29.47	
For Valve Plate For Attaching To Upright, Add	113.60	
22 42 16 00-0116 Floor Mounted, Lavatory Carriers With Arms (22 42 16 00-0110) Note: Includes leveling and securing screws, structural uprights and welded feet.		
22 42 16 00-0117 EA Floor Mounted, Single Lavatory Carrier With Concealed Arms	442.59	46.15
For Up To 6-1/2" Extension Sleeves And Hardware, Add	14.73	
For Concealed Arm Carrier For Wheelchair Lavatory, Add	20.35	
For Valve Plate For Attaching To Upright, Add	58.85	
For 2" Chrome Plated Escutcheons, Add	49.82	
For 4" Or 6" Chrome Plated Escutcheons, Add	90.51	
22 42 16 00-0118 EA Floor Mounted, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms	571.70	46.15
For Up To 4-1/2" Extension Sleeves And Hardware, Add	14.73	
For Vandal Proof Trim, Add	40.00	
For Valve Plate For Attaching To Upright, Add	58.85	
For Heavy Duty Carrier, Add	51.22	
22 42 16 00-0119 EA Floor Mounted, Double Lavatory (Back To Back) Carrier With Concealed Arms	570.99	46.15
For Up To 6-1/2" Extension Sleeves And Hardware, Add	29.47	
For Concealed Arm Carrier For Wheelchair Lavatory, Add	40.70	
For Valve Plate For Attaching To Upright, Add	117.70	
For 2" Chrome Plated Escutcheons, Add	99.63	
For 4" Or 6" Chrome Plated Escutcheons, Add	181.02	
22 42 16 00-0120 EA Floor Mounted, Double Lavatory (Back To Back) Carrier With Exposed Acid Resistant White Coated Arms	817.98	46.15
For Up To 6-1/2" Extension Sleeves And Hardware, Add	29.47	
For Vandal Proof Trim, Add	80.00	
For Valve Plate For Attaching To Upright, Add	117.70	
For Heavy Duty Carrier, Add	102.44	
22 42 16 00-0121 Wall Mounted, Lavatory Carriers (22 42 16 00-0109)		
22 42 16 00-0122 Wall Mounted Plate Type, Lavatory Carriers (22 42 16 00-0121) Note: Includes wall plate and adjustable supporting rods.		
22 42 16 00-0123 EA Wall Mounted Hanger Plate Type, Single Lavatory Carrier	182.13	38.98
For Double Plate Carrier, Add	47.32	
22 42 16 00-0124 Wall Mounted Plate Type, Lavatory Carriers With Arms (22 42 16 00-0121) Note: Includes wall plate and leveling and securing screws.		

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 00-0125	EA	Wall Mounted Fixed Steel Plate Type, Single Lavatory Carrier With Concealed Arms <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i>	279.11 14.73 49.82	46.15
22 42 16 00-0126	EA	Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Concealed Arms <i>For Movable Mounting Brackets, Deduct</i> <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	318.40 -37.89 14.73 49.82 90.51	46.15
22 42 16 00-0127	EA	Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i>	439.79 14.73 40.00	46.15
22 42 16 00-0128		Sink Carriers (22 42 16 00-0108)		
22 42 16 00-0129		Floor Mounted, Sink Carriers (22 42 16 00-0128) Note: With support plates, adjustable coupling with 4" piping connection, mounting studs, structural uprights, welded feet and chrome plated trim.		
22 42 16 00-0130	EA	Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	485.24 40.00 56.80	38.98
22 42 16 00-0131	EA	Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling And 4" x 2" Waste Fitting <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Vent, Add</i>	725.90 40.00 123.47	38.98
22 42 16 00-0132	EA	Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With Exposed Acid Resistant White Coated Arms <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i>	897.11 30.17 40.00	38.98
22 42 16 00-0133		Removal And Reinstallation Of Fixtures And Trim (22 42 16) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 00-0134	EA	Removal And Reinstallation Of Wall Hung Lavatory With Faucet	301.65	
22 42 16 00-0135	EA	Removal And Reinstallation Of Wall Hung Service Sink With Faucet	413.56	
22 42 19		Commercial Bathtubs (22 42)		
22 42 19 00-0001		Recessed Alcove Bathtubs (22 42 19)		
22 42 19 00-0002		Porcelain Enameled Cast Iron, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0003	EA	54" x 30-1/4" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Seaforth™)	1,453.89	285.12
22 42 19 00-0004	EA	60" x 30" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Villager®)	798.64	285.12
22 42 19 00-0005	EA	60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Mendota®)	1,249.70	285.12
22 42 19 00-0006	EA	60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®)	1,459.02	285.12
22 42 19 00-0007	EA	66" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®)	1,869.68	285.12
22 42 19 00-0008	EA	66-1/4" x 32" x 16", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (American Standard Spectra™)	1,605.80	285.12
22 42 19 00-0009		Porcelain Enameled Steel, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0010	EA	60" x 30" x 14-1/4", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Salem®)	659.81	285.12
22 42 19 00-0011	EA	60" x 30" x 16-5/8", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Solar®)	674.43	285.12
22 42 19 00-0012		Porcelain Finished Metal Alloy, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0013	EA	60" x 32" x 17-3/4", Porcelain Finished Metal Alloy, Recessed Alcove Bathtub (American Standard Cambridge™)	962.28	285.12
22 42 19 00-0014		Acrylic, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0015	EA	60" x 32" x 19", Acrylic, Recessed Alcove Bathtub (Kohler® Archer®)	989.94	285.12
22 42 19 00-0016	EA	60" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®)	1,166.72	285.12
22 42 19 00-0017	EA	66" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®)	1,189.55	285.12
22 42 19 00-0018	EA	72" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®)	1,175.52	285.12
22 42 19 00-0019	EA	72" x 42" x 21", Acrylic, Recessed Alcove Bathtub (Kohler® Windward®)	1,226.00	285.12
22 42 19 00-0020		Bathtub Refinishing (22 42 19 00-0001)		
22 42 19 00-0021	EA	Refinish Porcelain Finished Bathtub With Acrylic Urethane Enamel	512.84	
22 42 19 00-0022		Tub And Shower Combinations (22 42 19)		
22 42 19 00-0023		Acrylic Tub And Shower Combination (22 42 19 00-0022)		
22 42 19 00-0024	EA	1 Piece, 60" x 32" x 72" Acrylic Tub And Shower (Delta 226032) <i>For 2 Piece Enclosure, Deduct</i>	820.49 -184.10	99.70
22 42 19 00-0025		Fiberglass Tub And Shower Combination (22 42 19 00-0022)		
22 42 19 00-0026	EA	1 Piece 60" x 32" x 72" Fiberglass Tub And Shower (Aquatic 2603-SG)	802.32	99.70
22 42 19 00-0027	EA	2 Piece 60" x 30" x 72" Fiberglass Tub And Shower (Aquatic 2603-2P)	636.81	66.47
22 42 19 00-0028	EA	4 Piece 60" x 32" x 75-1/2" Fiberglass Tub And Shower (Aquatic 26030-4P)	1,271.57	150.48



	Plumbing	22	
	Plumbing Fixtures	22 40	22
	Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 19 00-0029 EA 3 Piece Tub/Shower Surrounds, 32" x 72" Side Walls, 48" x 72" Back, (Swanstone SK-324872)..... For 2 Piece Enclosure, Deduct	1,883.52 -397.21	270.69
22 42 23 Commercial Showers (22 42)		
22 42 23 00-0001 Shower Enclosures (22 42 23) Note: Includes precast concrete receptors. Excludes plumbing hook-up and door or curtain.		
22 42 23 00-0002 Stainless Steel Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0003 EA 36" x 36" x 82" Stainless Steel Interior And Exterior Shower Enclosure, Single Access Front Opening (Crane Plumbing, Fiat S86 Commander)	2,896.78	165.43
22 42 23 00-0004 EA 36" x 38" x 82" Stainless Steel Interior And Exterior Shower Enclosure, Double Access Walk Through (Crane Plumbing, Fiat S91 Commander)	2,896.78	165.43
22 42 23 00-0005 EA 37" x 37" x 82" Stainless Steel Interior And Exterior Shower Enclosure, Double Access Corner Opening (Crane Plumbing, Fiat S92 Commander)	2,896.78	165.42
22 42 23 00-0006 EA 38"x 38" x 82" Stainless Steel Interior And Exterior Shower Enclosure, Single Access Front Opening Corner (Crane Plumbing, Fiat S101 Commander)	2,896.78	165.42
22 42 23 00-0007 Powder Coated Or Baked Enamel Steel Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0008 EA 39" x 39" x 82" Baked Enamel Wonder Wall Steel Shower Enclosure (Crane Plumbing, Fiat S115 Commander).....	3,402.09	165.42
22 42 23 00-0009 EA 39" x 48" x 82" Baked Enamel Wonder Wall Steel Shower Enclosure (Crane Plumbing, Fiat S125 Commander).....	4,419.59	165.42
22 42 23 00-0010 EA 32" x 32" x 82" Baked Enamel Steel Shower Enclosure (General Partitions)	930.84	165.42
22 42 23 00-0011 EA 36" x 36" x 82" Baked Enamel Steel Shower Enclosure (General Partitions)	930.84	165.42
22 42 23 00-0012 EA 40" x 40" x 82" Baked Enamel Steel Shower Enclosure (General Partitions)	1,314.84	165.42
22 42 23 00-0013 EA 40" x 48" x 82" Handicapped, Baked Enamel Steel Shower Enclosure (General Partitions)	1,428.84	165.42
22 42 23 00-0014 Solid Plastic Core High Density Polymer (HDP) Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0015 EA 32" x 32" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	1,416.84	165.42
22 42 23 00-0016 EA 36" x 36" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	1,416.84	165.42
22 42 23 00-0017 EA 40" x 40" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	1,956.84	165.42
22 42 23 00-0018 EA 40" x 48" x 82" Handicapped, Solid Plastic Shower Enclosure (General Partitions).....	2,166.84	165.42
22 42 23 00-0019 1 Piece Shower Units (22 42 23)		
22 42 23 00-0020 EA 1 Piece, 32" x 32" x 73" Fiberglass Shower With Drain (Swanstone FS03232).....	719.22	99.70
22 42 23 00-0021 EA 1 Piece, 36" x 36" x 73" Fiberglass Shower With Drain (Swanstone FS03636).....	787.07	99.70
22 42 23 00-0022 Personnel Type Shower Receptors (22 42 23)		
22 42 23 00-0023 Acrylic Shower Receptors (22 42 23 00-0022)		
22 42 23 00-0024 EA 36" x 36" Acrylic Shower Receptor	380.28	41.79
22 42 23 00-0025 EA 42" x 42" Acrylic Shower Receptor	400.37	41.79
22 42 23 00-0026 EA 48" x 48" Acrylic Shower Receptor	440.50	41.79
22 42 23 00-0027 EA 60" x 60" Acrylic Shower Receptor	535.26	50.15
22 42 23 00-0028 EA 48" x 32" Acrylic Shower Receptor	381.22	41.79
22 42 23 00-0029 EA 48" x 36" Acrylic Shower Receptor	407.65	41.79
22 42 23 00-0030 EA 48" x 42" Acrylic Shower Receptor	456.82	41.79
22 42 23 00-0031 EA 60" x 30" Acrylic Shower Receptor	654.92	83.41
22 42 23 00-0032 EA 60" x 32" Acrylic Shower Receptor	510.25	50.15
22 42 23 00-0033 EA 60" x 36" Acrylic Shower Receptor	513.65	50.15
22 42 23 00-0034 EA 60" x 42" Acrylic Shower Receptor	516.77	50.15
22 42 23 00-0035 EA 60" x 48" Acrylic Shower Receptor	565.63	50.15
22 42 23 00-0036 EA 36" x 36" Acrylic Corner Shower Receptor	541.37	41.79
22 42 23 00-0037 EA 42" x 42" Acrylic Corner Shower Receptor	617.22	41.79
22 42 23 00-0038 EA 47-1/2" x 47-1/2" Acrylic Corner Shower Receptor	917.57	79.24
22 42 23 00-0039 Molded Stone Shower Receptors (22 42 23 00-0022)		
22 42 23 00-0040 EA 32" x 32" Molded Stone Shower Receptor (Fiat 32WL)	263.41	41.79
22 42 23 00-0041 EA 34" x 34" Molded Stone Shower Receptor (Fiat 34WL)	274.75	41.79
22 42 23 00-0042 EA 36" x 36" Molded Stone Shower Receptor (Fiat 36WL)	276.01	41.79
22 42 23 00-0043 EA 42" x 42" Molded Stone Shower Receptor (Fiat 4242WL)	332.08	41.79
22 42 23 00-0044 EA 42" x 34" Molded Stone Shower Receptor (Fiat 42WL)	298.06	41.79
22 42 23 00-0045 EA 48" x 32" Molded Stone Shower Receptor (Fiat 4832WL)	313.81	41.79
22 42 23 00-0046 EA 48" x 34" Molded Stone Shower Receptor (Fiat 48WL)	315.70	41.79
22 42 23 00-0047 EA 54" x 34" Molded Stone Shower Receptor (Fiat 54WL)	366.86	50.15
22 42 23 00-0048 EA 60" x 34" Molded Stone Shower Receptor (Fiat 60WL)	378.83	50.15
22 42 23 00-0049 EA 36" x 36" Molded Stone Corner Shower Receptor (Fiat 36WLC).....	301.21	41.79
22 42 23 00-0050 EA 38" x 38" Molded Stone Corner Shower Receptor (Fiat 38WLC).....	308.14	41.79
22 42 23 00-0051 Precast Terrazzo Shower Receptors (22 42 23 00-0022)		
22 42 23 00-0052 EA 30" x 30" Precast Terrazzo Shower Receptor.....	468.79	41.79
22 42 23 00-0053 EA 32" x 32" Precast Terrazzo Shower Receptor.....	485.80	41.79
22 42 23 00-0054 EA 34" x 34" Precast Terrazzo Shower Receptor.....	501.55	41.79
22 42 23 00-0055 EA 36" x 36" Precast Terrazzo Shower Receptor.....	503.44	41.79
22 42 23 00-0056 EA 40" x 40" Precast Terrazzo Shower Receptor.....	548.17	41.79

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 23 00-0057 EA 42" x 42" Precast Terrazzo Shower Receptor.....	570.85	41.79
22 42 23 00-0058 EA 48" x 48" Precast Terrazzo Shower Receptor.....	790.09	41.79
22 42 23 00-0059 EA 36" x 32" Precast Terrazzo Shower Receptor.....	497.77	41.79
22 42 23 00-0060 EA 42" x 32" Precast Terrazzo Shower Receptor.....	506.80	41.79
22 42 23 00-0061 EA 42" x 34" Precast Terrazzo Shower Receptor.....	522.97	41.79
22 42 23 00-0062 EA 42" x 36" Precast Terrazzo Shower Receptor.....	543.13	41.79
22 42 23 00-0063 EA 32" x 48" Precast Terrazzo Shower Receptor.....	545.02	41.79
22 42 23 00-0064 EA 48" x 34" Precast Terrazzo Shower Receptor.....	570.85	41.79
22 42 23 00-0065 EA 48" x 36" Precast Terrazzo Shower Receptor.....	589.75	41.79
22 42 23 00-0066 EA 54" x 32" Precast Terrazzo Shower Receptor.....	596.68	41.79
22 42 23 00-0067 EA 60" x 30" Precast Terrazzo Shower Receptor.....	801.96	50.15
22 42 23 00-0068 EA 60" x 32" Precast Terrazzo Shower Receptor.....	873.44	50.15
22 42 23 00-0069 EA 60" x 34" Precast Terrazzo Shower Receptor.....	876.95	50.15
22 42 23 00-0070 EA 60" x 36" Precast Terrazzo Shower Receptor.....	880.44	50.15
22 42 23 00-0071 EA 32" x 32" Precast Terrazzo Corner Shower Receptor.....	505.96	41.79
22 42 23 00-0072 EA 34" x 34" Precast Terrazzo Corner Shower Receptor.....	506.80	41.79
22 42 23 00-0073 EA 36" x 36" Precast Terrazzo Corner Shower Receptor.....	508.48	41.79
22 42 23 00-0074 EA 40" x 40" Precast Terrazzo Corner Shower Receptor.....	603.61	41.79
22 42 23 00-0075 EA 36" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....	1,072.96	41.79
22 42 23 00-0076 EA 60" x 30", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....	1,197.20	50.15
22 42 23 00-0077 EA 60" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....	1,246.34	50.15
22 42 23 00-0078 Shower Receptors Accessories (22 42 23 00-0022)		
22 42 23 00-0079 SF Polyvinyl Chloride (PVC) Shower Pan Liner	3.49	
22 42 23 00-0080 Removal And Reinstallation Of Fixtures And Trim (22 42 23)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 23 00-0081 EA Removal And Reinstallation Of Shower Head	50.15	
22 42 33 Wash Fountains (22 42)		
22 42 33 00-0001 Circular Wash Fountain, Deep Bowl (22 42 33)		
Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0002 EA 36" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2705F-A-LSD).....	6,246.12	161.55
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0003 EA 36" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2805F-A-LSD).....	4,802.60	161.55
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0004 EA 36" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3105AIRLSDE).....	8,334.96	161.55
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0005 EA 54" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2708F-A-LSD).....	7,938.73	184.63
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0006 EA 54" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2808F-A-LSD).....	5,541.47	184.63
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0007 EA 54" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3108AIRLSDE).....	9,987.56	184.63
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0008 Semi-Circular Wash Fountain, Deep Bowl (22 42 33)		
Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0009 EA 36" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2703F-A-LSD).....	5,446.98	138.48
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0010 EA 36" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2803F-A-LSD).....	4,385.41	138.48
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0011 EA 36" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3103AIRLSDE).....	6,318.63	138.48
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0012 EA 54" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2704F-A-LSD).....	6,675.14	161.55
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0013 EA 54" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2804F-A-LSD).....	5,292.06	161.55
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	



			Plumbing	22	22
			Plumbing Fixtures	22 40	
			Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 33 00-0014 EA 54" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3104AIRLSDE).....	7,516.74	161.55
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 39 Commercial Faucets, Supplies, And Trim (22 42)		
22 42 39 00-0001 Kitchen Faucets (22 42 39)		
22 42 39 00-0002 EA Top Cast Kitchen Faucet, Single Handle, Chrome Finish (Delta 140-DST).....	155.69	51.28
22 42 39 00-0003 EA Top Cast Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 440-DST)	172.15	51.28
22 42 39 00-0004 EA Top Cast Kitchen Faucet, Single Handle, Stainless Steel Finish (Delta 140-SS-DST)	181.25	51.28
22 42 39 00-0005 EA Top Cast Kitchen Faucet With Spray, Single Handle, Stainless Steel Finish (Delta 440 -SS-DST).....	203.12	51.28
22 42 39 00-0006 EA Top Cast Kitchen Faucet, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2102LF-LHP+H24)	146.99	51.28
22 42 39 00-0007 EA Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2402LF-LHP+H24).....	158.59	51.28
22 42 39 00-0008 EA Top Cast Kitchen Faucet, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21987LF)	197.68	51.28
22 42 39 00-0009 EA Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21996LF).....	148.62	51.28
22 42 39 00-0010 EA Bottom Mount Kitchen Faucet, Single Handle, Chrome Finish (Delta 101LF-WF).....	144.23	51.28
22 42 39 00-0011 EA Bottom Mount Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 175LF-WF)	165.70	51.28
22 42 39 00-0012 EA Bottom Mount Kitchen Faucet, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2274-LHP+H24).....	265.12	51.28
22 42 39 00-0013 EA Bottom Mount Kitchen Faucet With Spray, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2276-LHP+H24)	288.17	51.28
22 42 39 00-0014 EA Wall Mount Kitchen Faucet, Two Handle, 11" Long Swing Spout (Delta 28T6943)	246.67	51.28
22 42 39 00-0015 EA Wall Mount Kitchen Faucet, 8" Center, With 14" Double Joint Spout (Delta 28T4433).....	221.28	51.28
22 42 39 00-0016 EA Deck Mount Sink Faucet, 8" Center Set, Lever Handles (Chicago Faucet 1100 ABCP)	275.48	55.71
22 42 39 00-0017 EA Deck Mount Sink Faucet, 8" Center Set, 4" Wristblade Handles (Chicago Faucet 1100-GN2AE3-317CP)	274.35	55.71
22 42 39 00-0018 EA Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 802-317CP).....	212.33	55.71
22 42 39 00-0019 EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041CR).....	449.08	51.28
22 42 39 00-0020 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041NK).....	560.94	51.28
22 42 39 00-0021 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041RB)	598.22	51.28
22 42 39 00-0022 EA Chrome Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041CR).....	449.08	51.28
22 42 39 00-0023 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041NK).....	560.94	51.28
22 42 39 00-0024 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041RB).....	598.22	51.28
22 42 39 00-0025 Lavatory Faucets (22 42 39)		
22 42 39 00-0026 EA Single Handle Centerset Lavatory Faucet, Polished Chrome Finish (Delta Lahara 538-MPU-DST).....	175.50	36.92
22 42 39 00-0027 EA 4" Centerset Lavatory Faucet With Chrome Lever Handle (Delta 501-WF).....	127.88	36.92
22 42 39 00-0028 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2521-LHP+H25).....	153.93	36.92
22 42 39 00-0029 EA 4" Centerset Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 2530-LHP+H24)	166.92	36.92
22 42 39 00-0030 EA Widespread Lavatory Faucet With Chrome Lever Handles (Delta 3543-LHP+H24).....	200.47	36.92
22 42 39 00-0031 EA Widespread Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 3530-LHP+H24).....	230.27	36.92
22 42 39 00-0032 EA Self Closing/Metered Faucet, Brass, Single Hole, Push Handle (Delta 86T104).....	148.33	36.92
22 42 39 00-0033 EA Self Closing/Metered Faucet, Double Hole, Push Handles (American Standard 1340.225.002).....	215.40	36.92
22 42 39 00-0034 EA Single Inlet, Push Handle Metering Faucet, ADA (Chicago Faucet 333-665).....	160.79	36.92
22 42 39 00-0035 EA Easy-Push Metering Faucet Wash-Up Fitting (Speakman S-4123)	142.95	36.92
22 42 39 00-0036 EA Easy-Push Metering 4" Centerset Faucet (Speakman S-4141-LD)	218.55	36.92
22 42 39 00-0037 EA 3" Reach, 4-Arm Handle Single Basin Faucet (T&S Brass 0710).....	164.06	36.92
22 42 39 00-0038 EA 3" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0712)	193.98	36.92
22 42 39 00-0039 EA 4" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0805)	190.44	36.92
22 42 39 00-0040 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Zurn ZB1104)	159.22	36.92
22 42 39 00-0041 Bath And Shower Faucets (22 42 39)		
22 42 39 00-0042 Bath And Shower Faucets With Valve Body (22 42 39 00-0041)		
22 42 39 00-0043 EA Single Lever Handle Chrome Tub Filler, Pressure-Balance (American Standard T480.500)	168.09	44.51
22 42 39 00-0044 EA Single Lever Handle, Chrome Shower Only, Pressure-Balance (American Standard T480.501).....	192.66	44.51
22 42 39 00-0045 EA Single Lever Handle, Chrome Shower And Tub Filler, Pressure-Balance (American Standard T480.502).....	208.41	44.51
22 42 39 00-0046 EA Two Lever Handle, Chrome Tub Filler (American Standard 3275.505)	157.38	44.51
For Faucet With Metal Cross Handles, Add	45.75	
22 42 39 00-0047 EA Two Lever Handle, Chrome Shower Only (American Standard 3275.501).....	163.68	44.51
For Faucet With Metal Cross Handles, Add	45.75	
22 42 39 00-0048 EA Two Lever Handle, Chrome Shower And Tub Filler (American Standard 3275.502).....	181.95	44.51
For Faucet With Metal Cross Handles, Add	45.75	
22 42 39 00-0049 EA Three Lever Handle, Chrome Shower And Tub Filler (American Standard 3375.502).....	202.74	44.51
For Faucet With Metal Cross Handles, Add	45.75	
22 42 39 00-0050 Shower Valves And Trim (22 42 39)		
See CSI section 22 41 39 00-0011 for residential shower valves and heads.		
22 42 39 00-0051 EA Senior Institutional Shower Head (Symmons® 4-150).....	164.15	44.51
22 42 39 00-0052 EA Universal Institutional Shower Head (Symmons® 4-151).....	257.96	44.51
22 42 39 00-0053 EA Fre-Flo Institutional Shower Head (Symmons® 4-295)	188.85	44.51
22 42 39 00-0054 EA Fre-Flo Institutional Shower Head With Short Arm (Symmons® 4-385).....	148.40	44.51
22 42 39 00-0055 EA Wall Mounted Shower Valve And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-300-B30-V-X)	461.21	66.66

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0056 EA Wall Mounted Shower Valve, Tub Faucet, And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-400-B30-V-X).....	485.41	76.93
22 42 39 00-0057 EA Wall Mounted Shower Valve, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-500-B30-V-X).....	591.94	76.93
22 42 39 00-0058 EA Wall Mounted Shower Valve, Tub Faucet, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-600-B30-V-X).....	611.56	82.05
22 42 39 00-0059 EA Removable Hand Held Shower With Hose Wall Hook And Inline Vacuum Breaker (Powers 141-318 with 141-319).....	288.72	69.22
22 42 39 00-0060 EA Concealed Thermostatic/Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 2502-600CP).....	577.07	69.22
22 42 39 00-0061 EA Concealed Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 1762-ISCP).....	418.22	69.22
22 42 39 00-0062 EA Stainless Steel Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-801S/1-802S).....	778.43	69.22
For Hand Spray, Hose And Wall Hooks, Add	106.44	
For Recessed Soap Dish, Add	108.12	
For Hand Spray, Hose And 30" Slide Bar, Add	165.51	
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0063 EA Stainless Steel Corner Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-807).....	915.14	69.22
For Hand Spray, Hose And Wall Hooks, Add	106.44	
For Recessed Soap Dish, Add	108.12	
For Hand Spray, Hose And 30" Slide Bar, Add	165.51	
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0064 EA Stainless Steel Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S).....	640.61	69.22
For Hand Spray, Hose And Wall Hooks, Add	19.32	
For Hand Spray, Hose And 30" Slide Bar, Add	78.39	
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0065 EA Stainless Steel Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-911RS).....	939.17	69.22
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0066 EA Stainless Steel Double Outlet Institutional Shower System With Thru-Ceiling Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-902S-FS).....	1,003.52	69.22
For Hand Spray, Hose And 30" Slide Bar, Add	59.07	
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0067 EA Stainless Steel Institutional Triple Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-931).....	1,805.10	69.22
For Recessed Soap Dish, Add	83.94	
For Pressure Balance And Metering Combination, Add	227.79	
22 42 39 00-0068 EA Stainless Steel Institutional Double Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-921).....	1,583.75	69.22
For Recessed Soap Dish, Add	83.94	
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0069 EA Stainless Steel Tub And Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-941-231).....	822.27	69.22
22 42 39 00-0070 EA Stainless Steel Double Outlet Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Hand Spray, Hose, Wall Hooks, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-912RS-FS).....	1,232.91	69.22
For Hand Spray, Hose And 30" Slide Bar, Add	59.07	
For Pressure Balance And Metering Combination, Add	291.63	
22 42 39 00-0071 EA Stainless Steel Single Supply Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-60).....	821.23	69.22
22 42 39 00-0072 EA Stainless Steel Single Supply Single Outlet Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-22-FS).....	818.97	69.22
For Hand Spray, Hose And 30" Slide Bar, Add	59.07	
22 42 39 00-0073 EA Single Lever Handle, Chrome, Pressure-Balance, Shower System (Symmons SafetyMix 1-100-X-3/4).....	600.86	61.53
22 42 39 00-0074 EA Single Lever Handle, Chrome, Pressure-Balance, Shower Valve (Symmons SafetyMix 4-500).....	459.81	44.51
22 42 39 00-0075 Service Sink Faucets (22 42 39)		
22 42 39 00-0076 EA 2-1/4" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet, Lever Handles (Kohler® Knoxford®).....	303.54	85.38
22 42 39 00-0077 EA 4-5/8" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet, Lever Handles (Kohler® Kinlock™).....	356.52	85.38
22 42 39 00-0078 EA 3" Spout, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8340.235).....	268.70	85.38
22 42 39 00-0079 EA 3" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8340.243).....	285.71	85.38
22 42 39 00-0080 EA 6" Spout With Vacuum Breaker And Top Brace, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8344.012).....	294.53	85.38
22 42 39 00-0081 EA 6" Spout With Bottom Fork Brace, Wall Mount Service Sink Faucet, Stops In Integral Arm, Wrist Blade Handles (American Standard 8345.101).....	389.28	119.69
22 42 39 00-0082 EA 6" Spout With Vacuum Break And Bottom Fork Brace, Wall Mount Service Sink Faucet, Stops In Integral Arm, Wrist Blade Handles (American Standard 8345.110).....	437.59	136.41
22 42 39 00-0083 EA 12" Spout With Bottom Fork Brace, Wall Mount Service Sink Faucet, Stops In Integral Arm, Wrist Blade Handles (American Standard 8345.115).....	493.03	136.41
22 42 39 00-0084 EA Wall Mount Service Sink Faucet With Atmospheric Vacuum Breaker Spout, Lever Handles (Chicago Faucet 305-VBRFC).....	292.67	85.38
22 42 39 00-0085 EA 8" Spout Wall Mount Service Sink, Wrist Blade Handles (Chicago 445-L8).....	392.22	136.41
22 42 39 00-0086 EA 44" Flexible Stainless Steel Hose With Insulated Handle, 23" Riser, Pre-Rinse Faucet (Chicago Faucet 923-LCP).....	533.59	136.41

22 42 39 00-0087 Laboratory Faucets And Fittings (22 42 39)



			Plumbing	22	22
			Plumbing Fixtures	22 40	
			Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0088 EA Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 927)	145.58	36.31
22 42 39 00-0089 EA Hot And Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 929)	233.75	51.28
22 42 39 00-0090 EA Hot And Cold Faucet With Vacuum Breaker, Single Deck Mount Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 930)	294.37	51.28
22 42 39 00-0091 EA Cold Wall Mount, Gooseneck Spout With Aerator, Laboratory Faucet (Chicago Faucet 933)	190.25	47.89
22 42 39 00-0092 EA Hot And Cold Wall Mount, 6" Spout With Aerator, Laboratory Faucet (Chicago Faucet 940)	260.41	68.31
22 42 39 00-0093 EA Hot And Cold Wall Mount, 6" Spout With Aerator And Vacuum Breaker, Laboratory Faucet (Chicago Faucet 940-VBE7-CP)	339.45	68.31
22 42 39 00-0094 EA Hot And Cold Faucet, Dual Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 946)	269.63	51.28
22 42 39 00-0095 EA Hot And Cold Wall Mount, Gooseneck Spout With Aerator Laboratory Faucet (Chicago Faucet 942)	274.77	68.31
22 42 39 00-0096 EA Single Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 350-CP)	176.93	39.44
22 42 39 00-0097 EA Dual Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 50-CP)	249.41	55.71
22 42 39 00-0098 EA Deck Mount Lavatory Faucet, 4" Center Set, Lever Handles (Chicago Faucet 802)	199.31	55.71
22 42 39 00-0099 EA Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 895-317CP)	236.49	55.71
22 42 39 00-0100 EA Gas Ball Valve, Removable Nozzle, Less Index Button (Chicago Faucet 909-LESS216-28CP)	70.39	34.26
22 42 39 00-0101 EA Gas Ball Valve, Removable Nozzle, With Index Button (Chicago Faucet 909-AGVCP)	72.70	34.26
22 42 39 00-0102 EA Dual Service Lab Fitting, Two Gas And One Water Outlet (Chicago Faucet 1332-CP)	368.04	61.53
22 42 39 00-0103 EA Dual Service Lab Fitting With Wristblade Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-317CP)	463.54	61.53
22 42 39 00-0104 EA Dual Service Lab Fitting With Metal Cross Handle, Inline Vacuum Breaker, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7-204CP)	550.54	61.53
22 42 39 00-0105 EA Dual Service Lab Fitting With Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7CP)	490.80	61.53
22 42 39 00-0106 EA Dual Service Lab Fitting With Chemical Resistant Coating And Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7SAM)	577.91	61.53
22 42 39 00-0107 EA Single, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-131WSA)	103.84	33.85
22 42 39 00-0108 EA 90 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132AWSA)	140.90	40.61
22 42 39 00-0109 EA 180 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132SWSA)	140.90	40.61
22 42 39 00-0110 EA Three Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-133WSA)	177.98	47.38
22 42 39 00-0111 EA Four Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-134WSA)	215.04	54.16
22 42 39 00-0112 Gooseneck Faucets With Independent Eyewash (22 42 39)		
22 42 39 00-0113 EA Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA)	575.89	38.46
22 42 39 00-0114 EA Single Lever Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-SL)	620.53	35.90
22 42 39 00-0115 EA 8" Stem, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8)	795.92	38.46
22 42 39 00-0116 EA Serrated Tip With Vacuum Breaker, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-ST)	839.23	38.46
22 42 39 00-0117 EA Thermostatic Mixing Valve Kit For The SEF-1800 (Speakman SEF-TW)	1,005.73	25.65
22 42 39 00-0118 EA Foot Pedal Activation, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-FP)	1,233.86	64.10
22 42 39 00-0119 EA Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-TW)	1,706.36	64.10
22 42 39 00-0120 EA 8" Stem, Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8TW)	1,761.49	64.10
22 42 39 00-0121 EA Adjustable Aerated Outlet Heads, Gooseneck Faucet Mounted Eyewash (WaterSaver EW101)	181.45	39.00
22 42 39 00-0122 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW200)	195.70	39.00
22 42 39 00-0123 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW201)	208.16	39.00
22 42 39 00-0124 EA 6 Gallon Capacity, Tempering Valve (WaterSaver AP3600)	769.03	25.65
22 42 39 00-0125 Bubblers And Glass Fillers (22 42 39)		
22 42 39 00-0126 EA Self-Closing Bubbler Faucet, Metering Handle (Chicago Faucet 748-665CP)	241.34	36.31
22 42 39 00-0127 EA Wall Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 313-CP)	223.79	47.89
22 42 39 00-0128 EA 7" Overall Outlet Height, Deck Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 709-CP)	238.33	36.31
22 42 39 00-0129 EA Wall Mount, Push Button Single Glass Filler (Chicago Faucet 324-CP)	163.82	52.04
22 42 39 00-0130 EA Deck Mount, Lever Handle Drinking Faucet (Haws 5054LF)	280.82	39.44
22 42 39 00-0131 EA Self Closing Lever Handle Drinking Bubbler, 1/2" IPS (Haws 5057LF)	305.08	39.44
22 42 39 00-0132 EA Push Button Bubbler, 1/2" OD (Haws 5017LF)	284.28	39.44
22 42 39 00-0133 EA Push Button Bubbler, 3/8" NPT (Haws 5010-6427)	240.50	39.44
22 42 39 00-0134 Electronic Infrared Sensor Faucets (22 42 39)		
22 42 39 00-0135 EA Electronic Lavatory Faucet (American Standard 6055.205.002)	452.03	85.54
For Faucet With Temperature Control, Add	40.00	
22 42 39 00-0136 EA Electronic Lavatory Gooseneck Faucet (American Standard 6055.105.002)	455.81	85.54
For Faucet With Temperature Control, Add	40.00	
22 42 39 00-0137 EA Electronic Gooseneck Faucets (Chicago Faucet 116.103.AB.1)	598.96	92.94
22 42 39 00-0138 EA Electronic Lavatory Faucet (Chicago Faucet 116.112.AB.1)	617.87	85.54
22 42 39 00-0139 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880)	898.29	92.94
22 42 39 00-0140 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880-BDT)	1,111.30	92.94
22 42 39 00-0141 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-35187)	1,041.45	92.94
22 42 39 00-0142 EA Solar Powered, Electronic Lavatory Faucet With Integral Mixing Valve (Sloan Solis EAF-275-ISM)	738.61	85.54
22 42 39 00-0143 EA Self-Generating EcoPower System, Single Supply Sensor Faucet, Standard Spout (Toto "Eco-Power" TEL3GKCN-60)	874.76	85.54
22 42 39 00-0144 Other Trim (22 42 39)		

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0145 EA Faucet Aerator, Male Thread 13/16" Male, 2 GPM (Delta RP330)	15.82	5.57
22 42 39 00-0146 EA 1-1/2" Pop-up Tailpiece (Chicago Faucet 226-ACP).....	80.75	16.71
22 42 39 00-0147 EA Basket Strainer Assembly (American Standard 055781-0070A).....	39.58	13.93
22 42 39 00-0148 EA 1-1/4" Chrome Plated Cast P-Trap With Or Without Cleanout.....	99.42	29.12
22 42 39 00-0149 EA 1-1/2" Chrome Plated Cast P-Trap With Or Without Cleanout.....	101.93	30.77
22 42 39 00-0150 EA 1-1/2" Cast Brass P-Trap With Cleanout.....	157.97	30.77
22 42 39 00-0151 Removal And Reinstallation Of Fixtures And Trim (22 42 39) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 39 00-0152 EA Removal And Reinstallation Of Faucet	89.15	
22 42 43 Flushometers (22 42)		
22 42 43 00-0001 Removal And Reinstallation Of Fixtures And Trim (22 42 43) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 43 00-0002 EA Removal And Reinstallation Of Flush Valve	139.30	
22 42 43 00-0003 Plumbing Control Transformers (22 42 43)		
22 42 43 00-0004 EA 6 Volt DC, 120 Volt AC Plug In Style Power Transformer (Zurn P6000-PC6).....	38.01	
22 42 46 Chemical Toilets (22 42) Note: Includes toilet, urinal, holding tank, and ventilation system. Building to be priced separately.		
22 42 46 00-0001 Standard Chemical Toilets (22 42 46)		
22 42 46 00-0002 Small Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0003 EA Chemical Toilet, Small Tank 7,000 Uses/Year	4,250.61	1,025.62
For Extra Urinal, Add	137.89	
22 42 46 00-0004 Medium Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0005 EA Chemical Toilet, Medium Tank 13,000 Uses/Year	5,051.78	1,221.52
For Extra Urinal, Add	163.30	
22 42 46 00-0006 Large Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0007 EA Chemical Toilet, Large Tank 28,000 Uses/Year	6,071.15	1,385.62
For Extra Urinal, Add	219.46	
22 43 Healthcare Plumbing Fixtures (22 40)		
22 43 13 Healthcare Water Closets (22 43)		
22 43 13 00-0001 Healthcare Water Closets (22 43 13)		
22 43 13 00-0002 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Priolo® ADA).....	786.04	106.66
22 43 13 00-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Madera™ ADA).....	630.48	106.66
22 43 16 Healthcare Sinks (22 43)		
22 43 16 00-0001 Healthcare Sinks (22 43 16) Note: Includes trap, drain and supply valves. Excludes faucets and flush valves.		
22 43 16 00-0002 EA 25" x 21", Wall Mounted, Blow Out Flushing Rim, Vitreous China Clinic Service Sink (American Standard)	1,158.78	68.71
For Stainless Steel Rim Guards (Three Sides), Add	105.70	
22 43 16 00-0003 EA 29" x 20", Floor Mounted, Siphon Jet Flushing Rim, Vitreous China Clinic Service Sink (American Standard).....	1,250.86	197.43
For Stainless Steel Rim Guards (Three Sides), Add	105.70	
For Pedestal Base, Add	484.63	
22 43 16 00-0004 EA 28" x 22", Wall Mounted, Vitreous China Surgeon's Scrub Sink (American Standard)	1,112.25	68.71
For Painted Bracket Supports, Add	170.94	
22 43 16 00-0005 EA 20" x 17", Wall Mounted, Vitreous China Intensive Care Unit Sink (American Standard)	972.64	68.71
22 43 39 Healthcare Faucets (22 43)		
22 43 39 00-0001 Medical Faucet Spouts (22 43 39)		
22 43 39 00-0002 EA Deck Mounted, Rigid Gooseneck Medical Lavatory Spout (American Standard 7522)	98.17	15.38
22 43 39 00-0003 Electronic Proximity Medical Faucets (22 43 39)		
22 43 39 00-0004 EA DC Or Plug-In AC Powered, Single Inlet, Electronic Proximity Medical Lavatory Faucet (American Standard Selectronic™ ICU)	559.83	75.28
For Hard Wired AC Powered, Add	24.07	
22 43 39 00-0005 Foot And Knee Faucet Controls (22 43 39)		



	Plumbing	22	
	Plumbing Fixtures	22 40	22
	Healthcare Plumbing Fixtures	22 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 43 39 00-0006 EA Single Supply Metering Pedal Valve (Chicago Faucet 628)	329.00	136.82
22 43 39 00-0007 EA Double Supply Metering Pedal Valve (Chicago Faucet 625)	372.47	136.82
22 43 39 00-0008 EA Knee Actuated Metering Mixing Valve (Chicago Faucet 745-VOCP)	707.53	136.82
22 43 39 00-0009 EA Double Knee Actuated Metering Mixing Valve (American Standard 7676)	651.44	136.82
22 43 39 00-0010 Centerset Medical Faucets (22 43 39)		
22 43 39 00-0011 EA Rigid Gooseneck Centerset Medical Lavatory Faucet, 8" Centers 6" Wrist Action Handles, Adjustable Centers (T&S B-0865-04)	386.48	75.28
22 43 39 00-0012 EA Swivel Gooseneck Centerset Medical Lavatory Faucet, 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0866-04)	390.42	75.28
22 43 39 00-0013 EA Swivel Gooseneck Centerset Medical Lavatory Faucet With Aerator 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0867-04)	390.02	75.28
22 43 39 00-0014 EA Surgical Sink Rigid Gooseneck Faucets, 8" Centers, 6" Wrist Action Handles (T&S B-0322-04)	352.62	75.28
22 43 39 00-0015 EA Surgical Sink Rigid Gooseneck Faucets With Stream Regulator Outlet, 8" Centers, 6" Wrist Action Handles (T&S B-0323-04)	339.23	75.28
22 43 39 00-0016 Bedpan Washers (22 43 39)		
22 43 39 00-0017 EA Self Closing Pedal Valve Bed Pan Washer, With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose (T&S B-0675)	894.78	136.82
22 43 39 00-0018 EA Pedal Valve Bed Panwasher With Volume Control Valve, Vacuum Breaker, Wall Hook Hose Connection, Extended Spray Polyvinyl Chloride Hose (T&S B-0676)	853.56	136.82
22 43 39 00-0019 EA Self Closing Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection Polyvinyl Chloride Hose (T&S B-0685)	841.35	136.82
22 43 39 00-0020 EA Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose, Extended Spray (T&S B-0686)	829.47	136.82
22 43 43 Healthcare Plumbing Fixture Flushometers (22 43)		
22 43 43 00-0001 Healthcare Plumbing Fixture Flushometers (22 43 43)		
22 43 43 00-0002 EA Exposed Manual Service Sink Flush Valve (Sloan Royal-117)	223.84	34.97
22 43 43 00-0003 EA Exposed Manual Water Closet Flush Valve With Bedpan Washer (Sloan Slimline BPW)	495.39	34.97
22 43 46 Patient Care Fixtures (22 43)		
22 43 46 00-0001 Modular Patient Care Units (22 43 46)		
22 43 46 00-0002 EA 47" Swivel Toilet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-1700-AQCT-WB-BWSEV)	10,285.66	205.12
For SDB Single Temperature Dialysis Box, Add	725.14	
For DDB Dual Temperature Dialysis Box, Add	770.18	
For BWSEV Bedpan Washer With Elevated Valve, Add	631.26	
For LOCK Flush Valve Lockout Device, Add	408.74	
22 43 46 00-0003 EA 31" Swing Front Cabinet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-2600-SST-DC- AQCT-WB)	8,136.02	179.49
For SDB Single Temperature Dialysis Box, Add	725.14	
For DDB Dual Temperature Dialysis Box, Add	770.18	
For BWSEV Bedpan Washer With Elevated Valve, Add	631.26	
For LOCK Flush Valve Lockout Device, Add	408.74	
22 43 46 00-0004 Patient Care Plumbing Accessories (22 43 46)		
22 43 46 00-0005 EA One Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7920)	970.49	27.86
22 43 46 00-0006 EA Two Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7919)	1,066.66	27.86
22 45 Emergency Plumbing Fixtures (22 40)		
22 45 13 Emergency Showers (22 45)		
22 45 13 00-0001 Emergency Drench Showers (22 45 13)		
22 45 13 00-0002 Emergency Drench Showers (Haws) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0003 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122)	587.35	179.49
22 45 13 00-0004 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8123)	658.22	179.49
22 45 13 00-0005 EA Horizontal Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122HWC)	697.59	179.49
22 45 13 00-0006 EA Horizontal Or Vertical Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8130)	815.72	179.49
22 45 13 00-0007 EA Horizontal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8133H)	1,059.85	179.49
22 45 13 00-0008 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8100)	874.87	205.12
22 45 13 00-0009 EA Wall Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Stainless Steel Push Flag (Haws 8111FP)	961.59	230.77
22 45 13 00-0010 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8169)	886.78	230.77
22 45 13 00-0011 EA Concealed Ceiling Supply, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8163)	902.53	230.77
22 45 13 00-0012 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Pull Down Lever Ball Valve Mounted In A Recessed Stainless Steel Cabinet (Haws 8164)	1,197.84	230.77

22 Plumbing**22 40 Plumbing Fixtures****22 45 Emergency Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 13 00-0013			Emergency Drench Showers (Speakman) (22 45 13 00-0001) Note: Includes one pull rod.		
22 45 13 00-0014	EA		Vertical Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-220)	510.80	179.49
22 45 13 00-0015	EA		Horizontal Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-227)	522.14	179.49
22 45 13 00-0016	EA		Floor Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-253)	763.68	205.12
22 45 13 00-0017			Emergency Drench Showers (Guardian) (22 45 13 00-0001) Note: Includes one pull rod.		
22 45 13 00-0018	EA		All-Stainless Steel Handicapped Accessible Safety Station With WideArea™ Eye/Face Wash (Guardian GBF1994)	2,955.65	179.49
22 45 13 00-0019			Emergency Drench Showers (WaterSaver) (22 45 13 00-0001) Note: Includes one pull rod.		
22 45 13 00-0020	EA		Emergency Shower, Vertically Mounted (WaterSaver ES635)	566.87	179.49
22 45 13 00-0021	EA		Emergency Shower, Horizontally Mounted (WaterSaver ES643)	575.96	179.49
22 45 13 00-0022	EA		All-Stainless Steel, Emergency Shower, Horizontally Mounted (WaterSaver ES691)	1,021.19	179.49
22 45 13 00-0023	EA		Emergency Shower, Recess Mounted (WaterSaver ES629)	843.79	230.77
22 45 13 00-0024	EA		Emergency Shower, Semi-Concealed (WaterSaver ES658)	1,049.50	230.77
22 45 16			Eyewash Equipment (22 45)		
22 45 16 00-0001			Emergency Eyewash Equipment (22 45 16)		
22 45 16 00-0002			Emergency Eyewash Equipment (Haws) (22 45 16 00-0001)		
22 45 16 00-0003	EA		Faucet Mounted, Stainless Steel Emergency Eyewash (Haws Axion® eyePOD® 7620)	215.00	5.13
22 45 16 00-0004	EA		Wall Mounted, Freeze Protected, Emergency Eye Wash With Soft-Flo Heads And Stainless Steel Bowl (Haws 7433FP)	1,134.84	230.77
22 45 16 00-0005			Emergency Eyewash Equipment (WaterSaver) (22 45 16 00-0001)		
22 45 16 00-0006	EA		Auto Flow, Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805)	430.16	51.28
22 45 16 00-0007	EA		Auto Flow, Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805LH)	430.16	51.28
22 45 16 00-0008	EA		Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806)	437.05	51.28
22 45 16 00-0009	EA		Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806LH)	437.05	51.28
22 45 16 00-0010	EA		Stainless Steel Bowl, Emergency Eye Wash, Deck Mounted (WaterSaver EW822)	563.51	51.28
22 45 16 00-0011	EA		Swing-Down, Auto Flow, Emergency Eye Wash, Wall Mounted (WaterSaver EW848)	634.75	51.28
22 45 16 00-0012	EA		Swing-Down, Auto Flow, Emergency Eye Wash, Deck Mounted (WaterSaver EW849)	634.75	51.28
22 45 16 00-0013	EA		Right Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893)	1,131.63	51.28
22 45 16 00-0014	EA		Left Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893LH)	1,131.63	51.28
22 45 16 00-0015	EA		Right Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895)	1,181.76	51.28
22 45 16 00-0016	EA		Left Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895LH)	1,181.76	51.28
22 45 16 00-0017	EA		Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Wall Mounted (WaterSaver EW898)	1,445.55	51.28
22 45 16 00-0018	EA		Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW899)	1,445.55	51.28
22 45 16 00-0019	EA		Ball Valve With Flag Handle, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW808)	878.77	179.49
22 45 16 00-0020	EA		Push-Down Valve, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW810)	869.05	179.49
22 45 16 00-0021	EA		Stainless Steel Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814)	677.40	179.49
22 45 16 00-0022	EA		Stainless Steel Bowl And Cover, Emergency Eye Wash, Wall Mounted (WaterSaver EW814BC)	879.51	179.49
22 45 16 00-0023	EA		Plastic Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814P)	605.25	179.49
22 45 23			Personal Eyewash Equipment (22 45)		
22 45 23 00-0001			Portable Eyewash Equipment (22 45 23)		
22 45 23 00-0002			Portable Eyewash Equipment (Bradley) (22 45 23 00-0001)		
22 45 23 00-0003	EA		Portable (Wall Mounted) Heated Gravity-Fed Emergency Eye/Face Wash (Bradley S19-921H)	1,280.95	15.38
22 45 26			Eye/Face Wash Equipment (22 45)		
22 45 26 00-0001			Emergency Eye/Face Wash Equipment (22 45 26)		
22 45 26 00-0002			Emergency Eye/Face Wash Equipment (Haws) (22 45 26 00-0001)		
22 45 26 00-0003	EA		Unmounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7460)	598.97	128.21
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0004	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly Without Receptor (Haws 7324)	630.66	179.49
22 45 26 00-0005	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260B-7270B)	618.85	179.49
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0006	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260BT-7270BT)	665.31	179.49
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0007	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360B-7460B)	670.03	179.49
			Note: Excludes p-trap and tailpiece.		



	Plumbing	22	
	Plumbing Fixtures	22 40	22
	Emergency Plumbing Fixtures	22 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 26 00-0008 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BT-7460BT).....	725.95	179.49
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0009 EA Wall Mounted, Barrier-Free, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BTWC).....	949.59	179.49
22 45 26 00-0010 EA Wall Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl And Dust Cover (Haws 7778B).....	1,697.72	179.49
22 45 26 00-0011 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7261-7271).....	764.63	205.12
22 45 26 00-0012 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7361-7461).....	855.19	205.12
22 45 26 00-0013 EA Pedestal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7777).....	1,768.69	205.12
22 45 26 00-0014 EA Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7611).....	468.75	51.28
22 45 26 00-0015 EA Right Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612).....	453.00	51.28
22 45 26 00-0016 EA Left Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612LH).....	472.68	51.28
22 45 26 00-0017 EA Wall Or Deck Mounted, Barrier-Free, Swing-Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7610).....	586.87	51.28
22 45 26 00-0018 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCC).....	1,505.06	256.41
22 45 26 00-0019 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCSM).....	1,760.81	205.12
22 45 26 00-0020 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCC).....	1,835.81	256.41
22 45 26 00-0021 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCSM).....	2,099.44	205.12
22 45 26 00-0022 Emergency Eye/Face Wash Equipment (Speakman) (22 45 26 00-0001)		
22 45 26 00-0023 EA Wall Mounted, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-495).....	558.05	179.49
22 45 26 00-0024 EA Floor Mounted, DuraJade™ Finish, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-496).....	672.96	205.12
22 45 26 00-0025 Emergency Eye/Face Wash Equipment (WaterSaver) (22 45 26 00-0001)		
22 45 26 00-0026 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl, Wall Mounted (WaterSaver FE724).....	804.23	179.49
22 45 26 00-0027 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl And Cover, Wall Mounted (WaterSaver FE724BC).....	1,006.34	179.49
22 45 26 00-0028 EA Wide Area, Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE727).....	980.64	179.49
22 45 26 00-0029 EA Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE765).....	919.33	179.49
22 45 26 00-0030 EA Auto Flow, Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774).....	450.22	51.28
22 45 26 00-0031 EA Auto Flow, Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774LH).....	450.22	51.28
22 45 26 00-0032 EA Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775).....	438.26	51.28
22 45 26 00-0033 EA Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775LH).....	438.26	51.28
22 45 26 00-0034 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Wall Mounted (WaterSaver FE778).....	643.74	51.28
22 45 26 00-0035 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE779).....	643.74	51.28
22 45 29 Hand-Held Emergency Drench Hoses (22 45)		
22 45 29 00-0001 Hand-Held Emergency Eye/Face/Body Wash With Hose (22 45 29)		
22 45 29 00-0002 Hand-Held Emergency Eye/Face/Body Wash With Hose (Haws) (22 45 29 00-0001)		
22 45 29 00-0003 EA Counter Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 8' Hose (Haws 8904).....	506.21	64.10
22 45 29 00-0004 EA Wall Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 12' Recoil Hose (Haws 8905).....	577.09	64.10
22 45 29 00-0005 Hand-Held Emergency Eye/Face/Body Wash With Hose (WaterSaver) (22 45 29 00-0001)		
22 45 29 00-0006 EA Emergency Drench Hose Unit, Deck Mounted (WaterSaver EW1020).....	369.24	64.10
22 45 29 00-0007 EA Emergency Drench Hose Unit, Wall Mounted (WaterSaver EW1025).....	345.23	64.10
22 45 29 00-0008 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1014).....	486.46	64.10
22 45 29 00-0009 EA Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1022).....	459.75	64.10
22 45 29 00-0010 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1026).....	469.31	64.10
22 45 29 00-0011 EA Ball Valve With Flag Handle, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028).....	595.25	64.10
22 45 29 00-0012 EA Ball Valve With Flag Handle And Vacuum Breaker, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028VB).....	679.01	64.10
22 45 29 00-0013 EA Emergency Eye Wash Drench Hose Unit, 45 Degree Panel Mounted (WaterSaver EW1041).....	650.61	64.10
22 45 33 Combination Emergency Fixture Units (22 45)		
22 45 33 00-0001 Emergency Shower With Eye/Face Wash (22 45 33)		
22 45 33 00-0002 Emergency Shower With Eye/Face Wash (Haws) (22 45 33 00-0001)		
22 45 33 00-0003 EA Floor Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8330).....	2,970.09	333.33

22 Plumbing**22 40 Plumbing Fixtures****22 45 Emergency Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 33 00-0004 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300FP).....	2,072.34	333.33
Note: Includes freeze protection bury valve.		
22 45 33 00-0005 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300-8309).....	1,501.40	333.33
22 45 33 00-0006 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300.158)	2,277.09	333.33
22 45 33 00-0007 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300CRP-8309CRP)	1,721.90	333.33
22 45 33 00-0008 EA Floor Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8309WC).....	1,631.34	333.33
22 45 33 00-0009 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317)	1,422.65	333.33
22 45 33 00-0010 EA Floor Mounted, Corrosion Resistant, PVC Plastic, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8336)	2,206.21	333.33
22 45 33 00-0011 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCC).....	2,399.15	333.33
22 45 33 00-0012 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCW).....	2,442.46	333.33
22 45 33 00-0013 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCC).....	2,706.27	333.33
22 45 33 00-0014 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan, Daylight Drain And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCDD).....	2,859.84	333.33
22 45 33 00-0015 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCW)	2,816.53	333.33
22 45 33 00-0016 EA Floor Mounted, 120 VAC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP).....	4,115.90	333.33
22 45 33 00-0017 EA Floor Mounted, 220 VAC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP.220V).....	4,328.53	333.33
22 45 33 00-0018 EA Floor Mounted, C1D1 Rated, 120 VAC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFPC1D1).....	8,935.40	333.33
22 45 33 00-0019 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320-8325).....	1,422.65	333.33
22 45 33 00-0020 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320CRP)	1,584.09	333.33
22 45 33 00-0021 Emergency Shower With Eye/Face Wash (Speakman) (22 45 33 00-0001)		
22 45 33 00-0022 EA Floor Mounted, Emergency Drench Shower With Plastic Showerhead And Eye/Face Wash With Plastic Bowl (Speakman SE-690)	1,247.51	333.33
22 45 33 00-0023 Emergency Shower With Eye/Face Wash (WaterSaver) (22 45 33 00-0001)		
22 45 33 00-0024 EA All-Stainless Steel, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS994).....	3,060.07	278.58
22 45 33 00-0025 EA Polished Chrome Construction, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS909PCC).....	3,120.98	278.58
22 45 33 00-0026 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl, Floor Mounted (WaterSaver SS902)	1,404.39	278.58
22 45 33 00-0027 EA Emergency Shower With Eye Wash Station And Plastic Bowl, Floor Mounted (WaterSaver SS902P)	1,309.63	278.58
22 45 33 00-0028 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl And Cover, Floor Mounted (WaterSaver SS902BC).....	1,606.50	278.58
22 45 36 Emergency Fixture Water-Tempering Equipment (22 45)		
22 45 36 00-0001 Emergency Fixture Water-Tempering Equipment (22 45 36)		
22 45 36 00-0002 Emergency Fixture Water-Tempering Equipment (Haws) (22 45 36 00-0001)		
22 45 36 00-0003 EA 10 GPM, 1/2" Inlet, 1/2" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EW).....	533.77	64.10
22 45 36 00-0004 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EFE).....	766.09	64.10
22 45 36 00-0005 EA 31 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201E).....	1,108.65	64.10
22 45 36 00-0006 EA 78 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9202E).....	1,301.59	64.10
22 45 36 00-0007 EA 31 GPM, 1" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws 9201H)	1,829.21	64.10
22 45 36 00-0008 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Secondary High Temperature Limit Valve, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.EWE).....	1,927.65	64.10
22 45 36 00-0009 EA 74 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.SHE).....	3,215.21	64.10
22 45 36 00-0010 EA 78 GPM, 2" Inlet, 2" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.HF).....	3,857.02	64.10
22 45 36 00-0011 EA 1/2" Inlet, 1/2" Outlet, Brass Scald Protection Bleed Valve (Haws SP157B)	592.83	64.10
22 45 39 Emergency Plumbing Fixture Accessories (22 45)		
22 45 39 00-0001 Emergency Plumbing Fixture Accessories (22 45 39)		
22 45 39 00-0002 Emergency Plumbing Fixture Accessories (Haws) (22 45 39 00-0001)		



			Plumbing	22
			Plumbing Fixtures	22 40
			Emergency Plumbing Fixtures	22 45

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 39 00-0003	EA		Pedestal Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220).....	139.47	20.51
22 45 39 00-0004	EA		Wall Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220W)	190.65	20.51
22 45 39 00-0005	EA		Pedestal Mounted, Stainless Steel Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220SS)	198.53	20.51
22 45 39 00-0006	EA		Axon® MSR Stainless Steel Showerhead For Emergency Drench Showers (Haws SP829SS)	212.26	7.69
22 45 39 00-0007	EA		Stainless Steel Dust Cover For Emergency Eye/Face Wash Bowls (Haws 9102)	215.00	5.13
22 45 39 00-0008	EA		3-Sided ABS Plastic Safety Sign For Emergency Combination Shower And Eyewash Units (Haws 9020).....	237.07	10.25
22 45 39 00-0009	EA		Emergency Body Spray Kit With 8' Hose And ABS Plastic Head For Emergency Plumbing Fixtures (Haws 8901RFK)	449.15	76.93
22 45 39 00-0010	EA		Class 1, Div. 1, Group B, C And D, Indicator Light For Emergency Plumbing Fixtures (Haws 8317IDLT EXP)	432.45	31.17
22 45 39 00-0011	EA		Vapor Tight And Gasketed, Green Area Light For Emergency Plumbing Fixtures (Haws 8317LT)	637.21	31.17
22 45 39 00-0012	EA		Privacy Curtain For Horizontal Emergency Drench Shower Or Combination Emergency Drench Shower And Eyewash Units (Haws 9037).....	766.09	76.93
22 45 39 00-0013	EA		Class 1, Div. 1, Group B, C And D, White Area Light For Emergency Plumbing Fixtures (Haws 8317LT EXP)	1,405.02	31.17
22 45 39 00-0014	EA		1/2" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001.5).....	1,585.92	103.89
22 45 39 00-0015	EA		1-1/4" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001).....	1,617.42	103.89
22 45 39 00-0016	EA		1-1/4" Supply, Class 1, Division 2, Groups B, C, And D Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXP)	2,964.05	103.89
22 45 39 00-0017	EA		1-1/4" Supply, 90 db, Class 1, Division 1, Groups C And D, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXPC1D1)	5,602.18	103.89
22 45 39 00-0018			Emergency Plumbing Fixture Accessories (Speakman) (22 45 39 00-0001)		
22 45 39 00-0019	EA		Privacy Curtain For Emergency Showers	719.15	76.93
			Note: Curtain includes stainless steel curtain rod and mounting accessories.		
22 45 39 00-0020			Emergency Plumbing Fixture Accessories (WaterSaver) (22 45 39 00-0001)		
22 45 39 00-0021	EA		Hand And Foot Control For Emergency Eyewash Equipment (WaterSaver HFC).....	97.56	16.71
22 46			Security Plumbing Fixtures (22 46)		
22 46 13			Security Water Closets And Urinals (22 46)		
22 46 13 00-0001			Security Fixtures (22 46 13)		
22 46 13 00-0002	EA		Prison Urinal, Back Supply And Flush, Wall Hung, Stainless Steel	2,704.09	230.77
22 46 13 00-0003	EA		Prison Urinal, Back Supply And Flush, Stall, Stainless Steel.....	4,563.12	327.89
22 46 13 00-0004	EA		Prison Water Closet, Integral Seat, Back Supply And Flush Valve, Wall Hung, Wall Outlet, Cast Aluminum.....	2,310.50	256.41
			For Angled Toilet, Add	25.64	
			For Offset Toilet, Add	205.41	
22 46 13 00-0005	EA		Prison Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Wall Outlet, Cast Aluminum	2,773.56	256.41
			For Angled Toilet, Add	25.64	
			For Offset Toilet, Add	251.72	
22 46 13 00-0006	EA		Prison Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Floor Outlet, Cast Aluminum.....	2,814.13	256.41
			For Angled Toilet, Add	25.64	
			For Offset Toilet, Add	255.77	
22 46 13 00-0007	EA		For Recessed Tissue Holder For Prison Water Closet, Stainless Steel.....	268.97	51.28
22 46 13 00-0008	EA		15" Wide Combination Prison Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel.....	4,130.54	317.95
			For Angled Toilet, Add	31.79	
			For Offset Toilet, Add	381.26	
			For 15" Mirror/Shelf Module, Add	867.95	
			For AC Duplex Outlet Option, Add	93.59	
			For Intercom Option, Add	138.59	
			For 15" Wide Light/Ventilation Module, Add	825.77	
22 46 13 00-0009	EA		18" Wide Combination Prison Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel.....	4,257.83	333.33
			For Angled Toilet, Add	33.33	
			For Offset Toilet, Add	392.45	
			For 18" Mirror/Shelf Module, Add	908.33	
			For AC Duplex Outlet Option, Add	96.67	
			For Intercom Option, Add	141.67	
			For 18" Wide Light/Ventilation Module, Add	850.00	
22 46 13 00-0010	EA		20" Wide Combination Prison Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel.....	4,355.75	348.71
			For Angled Toilet, Add	34.87	
			For Offset Toilet, Add	400.70	
			For 20" Mirror/Shelf Module, Add	958.71	
			For AC Duplex Outlet Option, Add	99.74	
			For Intercom Option, Add	144.74	
			For 20" Wide Light/Ventilation Module, Add	884.23	
22 46 13 00-0011	EA		26" Wide Combination Prison Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel.....	4,657.93	364.10
			For Angled Toilet, Add	36.41	
			For Offset Toilet, Add	429.38	
			For 26" Mirror/Shelf Module, Add	999.10	
			For AC Duplex Outlet Option, Add	102.82	
			For Intercom Option, Add	147.82	
			For 26" Wide Light/Ventilation Module, Add	913.46	

22	Plumbing
22 40	Plumbing Fixtures
22 46	Security Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 46 13 00-0012 EA 28" Wide Combination Prison Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Floor Mounted, Stainless Steel	7,426.49	379.48
For Angled Toilet, Add	37.95	
For Offset Toilet, Add	704.70	
For 28" Mirror/Shelf Module, Add	1,034.48	
For AC Duplex Outlet Option, Add	105.90	
For Intercom Option, Add	150.90	
For 28" Wide Light/Ventilation Module, Add	942.69	
22 46 16 Security Lavatories And Sinks (22 46)		
22 46 16 00-0001 Security Lavatories And Sinks (22 46 16)		
22 46 16 00-0002 EA Prison Lavatory, Wall Hung, Push Button Filler V, Rectangular Bowl, Stainless Steel	1,663.19	179.49
For Shelf, Add	88.85	
22 46 16 00-0003 EA Prison Lavatory, Wall Hung, Push Button Filler V, Oval Bowl, Stainless Steel	1,690.05	179.49
For Shelf, Add	88.85	
22 46 16 00-0004 EA Prison Lavatory, Wall Hung, Push Button Filler V, Oval Bowl, Corner Mount, Stainless Steel	1,916.87	179.49
For Shelf, Add	88.85	
22 46 16 00-0005 EA Prison Lavatory, Wall Hung, Push Button Filler V, Multi Sided Bowl, Stainless Steel	1,690.05	179.49
For Shelf, Add	88.85	
22 46 16 00-0006 EA Prison Service Sink, With Soap Dish, 22" x 16" x 10", Stainless Steel	3,534.18	273.33
22 46 19 Security Showers (22 46)		
22 46 19 00-0001 EA Prison Shower Cabinet, Unitized, 36" X 36" X 88", Stainless Steel	9,684.37	372.71
For Door, Add	139.54	
22 46 19 00-0002 EA Shower Package For Built-in, Hot And Cold Faucets, Mixing Valve, Rectangular Soap Dish, Stainless Steel	628.63	136.92
22 46 19 00-0003 EA Prison Shower Head With Mixing Valves And Piping Assembly In Wall	446.52	71.80
22 46 19 00-0004 EA 30" Prison Shower, Stainless Steel, Knock-Down, Acorn 1730-3M-KD	9,100.91	410.25
22 46 19 00-0005 EA 32" Prison Shower, Stainless Steel, Knock-Down, Acorn 1732-3M-KD	9,425.47	410.25
22 46 19 00-0006 EA 36" Prison Shower, Stainless Steel, Knock-Down, Acorn 1736-3M-KD	9,759.50	410.25
22 46 19 00-0007 EA 36" ADA Prison Shower, Stainless Steel, Front Access, Acorn 1736-ADA-3M-FA	12,374.94	410.25
22 46 19 00-0008 EA Wall Mounted Shower, Stainless Steel, Acorn 1741	936.18	107.69
For PWT Electronic FV, Add	148.00	
22 46 19 00-0009 EA Wall Mounted ADA Shower, Stainless Steel, Acorn 1741 ADA	1,124.16	107.69
For PWT Electronic FV, Add	148.00	
22 46 56 Security Drinking Fountains (22 46)		
22 46 56 00-0001 Drinking Fountain (22 46 56)		
Note: Includes air control valve, bubbler with mouthguard and mounting bracket.		
22 46 56 00-0002 EA Wall Mounted Drinking Fountain, Stainless Steel, Acorn 1670-1-BP-3-FA	1,880.75	205.12
22 46 56 00-0003 EA Wall Mounted ADA Drinking Fountain, Stainless Steel, Acorn 1672-1-ADA-BP-3-FA	1,893.70	205.12
22 47 Drinking Fountains And Water Coolers (22 40)		
22 47 13 Drinking Fountains (22 47)		
22 47 13 00-0001 Indoor Drinking Fountains (22 47 13)		
22 47 13 00-0002 Face Mounted Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0003 EA Stainless Steel, Standard Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-S)	1,503.65	166.67
22 47 13 00-0004 EA Stainless Steel, Standard Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-SBP)	2,164.39	179.49
22 47 13 00-0005 EA Stainless Steel, Extended Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-E)	1,960.17	166.67
22 47 13 00-0006 EA Stainless Steel, Extended Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-EBP)	2,328.79	179.49
22 47 13 00-0007 EA Stainless Steel, Standard Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFS)	1,029.90	166.67
22 47 13 00-0008 EA Stainless Steel, Standard Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners With Back Panel (Halsey-Taylor HRFSBP)	1,223.51	179.49
22 47 13 00-0009 EA Stainless Steel, Extended Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFE)	1,156.19	166.67
22 47 13 00-0010 EA Stainless Steel, Extended Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFEBP)	1,394.23	179.49
22 47 13 00-0011 Wall Mounted Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0012 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor 5701)	1,063.45	179.49
22 47 13 00-0013 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8WF)	1,480.33	179.49
22 47 13 00-0014 EA Bi-Level, Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8BLWF)	2,019.86	179.49
22 47 13 00-0015 Semi-Recessed Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0016 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler (Halsey-Taylor 5801)	1,408.73	192.30



			Plumbing	22
			Plumbing Fixtures	22 40
			Drinking Fountains And Water Coolers	22 47

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 13 00-0017	EA	Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C).....	2,933.06	192.30
22 47 13 00-0018		Fully Recessed Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0019	EA	Stainless Steel Fully-Recessed, With Bubbler, Indoor Drinking Fountain (Halsey-Taylor 8880, Haws 2400).....	1,506.60	205.12
22 47 13 00-0020	EA	Stainless Steel Fully-Recessed, With Bubbler And Cuspidor, Indoor Drinking Fountain (Halsey-Taylor 8800 With 10245, Haws 2403)	2,676.05	205.12
22 47 13 00-0021		Countertop Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0022	EA	Stainless Steel Countertop Circular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 10000)	643.00	128.21
22 47 13 00-0023	EA	Stainless Steel Countertop Rectangular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6000)	620.98	128.21
22 47 13 00-0024	EA	Stainless Steel Countertop Oval Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6028)	741.62	128.21
22 47 13 00-0025		Bowl And Bracket Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0026	EA	Stainless Steel, Bowl And Bracket With Pushbutton Bubbler, Indoor Drinking Fountain (Halsey-Taylor 2501A)	551.41	128.21
22 47 13 00-0027	EA	Stainless Steel, Bowl And Bracket, Self Closing Lever Handle Stop, Indoor Drinking Fountain (Halsey-Taylor 4540)	653.68	128.21
22 47 13 00-0028		Multi-Station Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0029	EA	Stainless Steel Two Station Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7020)	2,777.32	205.12
22 47 13 00-0030	EA	Stainless Steel Three Station Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7030)	3,471.20	205.12
22 47 13 00-0031	EA	Marblyte, Face-Mounted Two Station Indoor Drinking Fountain With Bubblers (Halsey-Taylor 7120)	2,653.06	205.12
22 47 13 00-0032	EA	White Enameled Iron Two Station Indoor Drinking Fountains With Bubblers (Haws 1430)	2,250.71	205.12
22 47 13 00-0033	EA	White Enameled Iron Three Station Indoor Drinking Fountains With Bubblers (Haws 1435)	2,812.54	205.12
22 47 13 00-0034	EA	Stainless Steel, Bi-Level Indoor Drinking Fountain With Bubblers And Back Panel (Halsey-Taylor HRFSEBP, Haws 1119.14 With 6700.4)	2,484.71	261.66
22 47 13 00-0035	EA	Cast Aluminum Two Station Indoor Drinking Fountains With Bubblers (Haws 1441)	2,902.05	205.12
22 47 13 00-0036	EA	Cast Aluminum Three Station Indoor Drinking Fountains With Bubblers (Haws 1408)	2,854.04	205.12
22 47 13 00-0037		Outdoor Drinking Fountains (22 47 13)		
22 47 13 00-0038		Face Mounted (22 47 13 00-0037)		
22 47 13 00-0039	EA	Stainless Steel Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFE-FR)	1,325.94	205.12
22 47 13 00-0040	EA	Stainless Steel Freeze Resistant Face Mounted, With Back Panel, Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFEFBP-FR)	1,445.51	205.12
22 47 13 00-0041	EA	Stone Aggregate Weather Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592)	1,393.59	205.12
22 47 13 00-0042	EA	Stone Aggregate Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592-FR)	2,005.62	205.12
22 47 13 00-0043	EA	Stainless Steel Face Mounted Outdoor Drinking Fountain With Bubbler (Oasis FLF140PM)	1,179.55	205.12
		Note: For use with remote chillers		
22 47 13 00-0044		Free Standing (22 47 13 00-0037)		
22 47 13 00-0045	EA	Steel Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715)	2,437.81	192.30
22 47 13 00-0046	EA	Steel Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715-FR)	3,392.04	192.30
22 47 13 00-0047	EA	Steel Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710)	2,434.64	192.30
22 47 13 00-0048	EA	Steel Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710-FR)	3,331.09	192.30
22 47 13 00-0049	EA	Steel Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720)	3,589.99	205.12
22 47 13 00-0050	EA	Steel Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720-FR)	3,653.71	205.12
22 47 13 00-0051	EA	Stone Aggregate Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4591)	1,405.69	192.30
22 47 13 00-0052	EA	Stone Aggregate Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590)	2,368.58	192.30
22 47 13 00-0053	EA	Stone Aggregate Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590-FR)	3,322.82	192.30
22 47 13 00-0054	EA	Stone Aggregate Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595)	3,902.29	205.12
22 47 13 00-0055	EA	Stone Aggregate Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595-FR)	5,442.60	205.12
22 47 16		Pressure Water Coolers (22 47)		
22 47 16 00-0001		Indoor Water Coolers (22 47 16)		
22 47 16 00-0002		Face Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0003	EA	Stainless Steel, Semi-Circular Water Cooler With Bubbler, Face-Mounted, Extended Length, 180 Degree Push Bar, 7.5 GPH (Halsey-Taylor OVL-II ER-Q)	2,789.94	205.12
22 47 16 00-0004	EA	Stainless Steel, Semi-Circular Water Cooler, Electronic Sensor, Face-Mounted, Extended Length, With Bubbler, 7.5 GPH (Halsey-Taylor OVL-II EREE-Q)	2,973.23	205.12
22 47 16 00-0005		Wall Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0006	EA	Stainless Steel Wall-Mounted Compact Water Cooler, 4 GPH, With Bubbler, (Halsey-Taylor SW4A-Q)	1,369.99	205.12
22 47 16 00-0007	EA	Stainless Steel Wall-Mounted Compact Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SW8A-Q)	1,417.19	205.12

22 Plumbing**22 40 Plumbing Fixtures****22 47 Drinking Fountains And Water Coolers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 16 00-0008 EA Stainless Steel Wall-Mounted Compact Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SW14A-Q)	1,565.09	205.12
22 47 16 00-0009 EA Stainless Steel Wall-Mounted Vandal Resistant Compact Water Cooler With Bubbler, 8 GPH (Halsey-Taylor SW8A-VR-Q-SS)	1,621.73	205.12
22 47 16 00-0010 EA Stainless Steel Wall-Mounted Vandal Resistant Barrier Free Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8-CHILD ADA)	1,222.10	205.12
22 47 16 00-0011 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor WC8AFS-Q-SS)	1,403.03	205.12
22 47 16 00-0012 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor HAC8FS-Q Child SS)	1,120.62	205.12
22 47 16 00-0013 EA Stainless Steel Wall-Mounted Water Cooler, 8 GPH, With Bubbler, (Halsey-Taylor HAC8VR-BL)	1,645.58	205.12
22 47 16 00-0014 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HAC8FSBL-Q-SS)	1,864.61	307.69
22 47 16 00-0015 Simulated Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0016 EA Stainless Steel Simulated Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RWM8A-Q)	1,618.44	205.12
22 47 16 00-0017 Fully Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0018 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RC8A-Q)	3,078.75	230.77
22 47 16 00-0019 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser, 8 GPH (Halsey-Taylor RC8AQ + 14762)	3,740.86	230.77
22 47 16 00-0020 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser And Glass Filler, 8 GPH (Halsey-Taylor RC8A-Q-14700)	4,363.45	230.77
22 47 16 00-0021 Free Standing Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0022 EA Stainless Steel, Free-Standing Indoor Water Cooler, 4 GPH, With Bubbler (Halsey-Taylor SCWT4A-Q)	1,313.20	179.49
22 47 16 00-0023 EA Stainless Steel, Free-Standing Indoor Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SCWT8A-Q)	1,405.24	179.49
22 47 16 00-0024 EA Stainless Steel, Free-Standing Indoor Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SCWT14A-Q)	1,585.38	179.49
22 47 16 00-0025 EA Stainless Steel, Free-Standing Vandal Resistant Water Cooler With Bubbler, 14 GPH (Halsey-Taylor SCWT14A-VR-Q)	1,756.09	179.49
22 47 16 00-0026 Bottled Water Coolers (22 47 16 00-0001)		
22 47 16 00-0027 EA Free-Standing Bottled Water Cooler With Chilled Or Room Temperature Water	470.48	102.56
22 47 16 00-0028 EA Free-Standing Bottled Water Cooler With Chilled Or Hot Water	555.01	102.56
22 47 16 00-0029 Multi-Station Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0030 EA Stainless Steel, Wall Mounted, Two Station, Semi-Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II SER-Q)	3,111.49	307.69
22 47 16 00-0031 EA Stainless Steel, Wall Mounted, Two Station, Electronic Sensor Semi Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II-SEREE-Q)	4,698.21	307.69
22 47 16 00-0032 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BL-CHILD ADA-SS)	2,011.72	307.69
22 47 16 00-0033 Outdoor Water Coolers (22 47 16)		
22 47 16 00-0034 Wall Mounted Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0035 EA Stainless Steel, Wall Mounted, Barrier Free, Vandal Resistant, Frost Resistant Outdoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8FR-CHILD ADA-SS)	1,387.99	128.21
22 47 16 00-0036 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Outdoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BLFR-CHILD ADA-SS)	2,352.11	128.21
22 47 16 00-0037 Free Standing Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0038 EA Stainless Steel Free-Standing Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-Q)	2,282.83	192.30
22 47 16 00-0039 EA Stainless Steel Free-Standing Frost Resistant Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-FR-Q)	2,723.37	192.30
22 47 16 00-0040 Removal And Reinstallation Of Fixtures And Trim (22 47 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 47 16 00-0041 EA Removal And Reinstallation Of Wall Hung Water Cooler	498.19	
22 47 16 00-0042 EA Removal And Reinstallation Of Floor Mount Water Cooler	111.43	
22 47 19 Water-Station Water Coolers (22 47)		
22 47 19 00-0001 Bottle Filler (22 47 19)		
22 47 19 00-0002 EA Outdoor Tubular Bottle Filling Station, Surface Mount (Elkay LK4410BF)	3,275.89	205.12
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0003 EA Outdoor Tubular Bottle Filling Station, Surface Mount, Freeze Resistant (Elkay LK4410BFFRK)	4,126.21	205.12
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0004 EA Tri-level Outdoor Tubular Bottle Filling Station With Single Bottle Filler And Two Drinking Fountain Basins, Surface Mount (Elkay LK4430BF1)	5,285.27	230.77
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0005 EA Tri-level Outdoor Tubular Bottle Filling Station With Two Bottle Fillers And Single Drinking Fountain Basin, Surface Mount (Elkay LK4430BF2)	5,704.35	230.77
For Stainless Steel Carrier, Add		205.00



Plumbing			22
Plumbing Fixtures			22 40
Drinking Fountains And Water Coolers			22 47

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 19 00-0006	EA	Tri-level Outdoor Tubular Bottle Filling Station With Three Bottle Fillers, Surface Mount (Elkay LK4430BF3)		6,123.44	230.77
		For Stainless Steel Carrier, Add		205.00	
22 47 23 Remote Water Coolers (22 47)					
22 47 23 00-0001 Remote Chillers (22 47 23)					
22 47 23 00-0002	EA	1.5 GPH Remote Chiller (Halsey-Taylor SJ1-Q).....		797.69	69.22
22 47 23 00-0003	EA	5 GPH Remote Chiller (Halsey-Taylor SJ5-Q).....		1,201.69	76.93
22 47 23 00-0004	EA	8 GPH Remote Chiller (Halsey-Taylor SJ8-Q).....		1,041.67	89.74
22 47 23 00-0005	EA	10 GPH Remote Chiller (Halsey-Taylor SJ10-Q).....		1,335.57	102.56
22 47 23 00-0006	EA	19 GPH Remote Chiller (Halsey-Taylor SJ19-Q).....		2,089.52	153.84
22 47 23 00-0007	EA	30 GPH Remote Chiller (Halsey-Taylor SJ30-Q).....		2,265.39	166.67
22 47 26 Fixture Carriers (22 47)					
22 47 26 00-0001 Water Cooler Carriers (22 47 26)					
22 47 26 00-0002 Floor Mounted, Water Cooler Carriers (22 47 26 00-0001)					
Note: Includes adjustable supporting rods, structural uprights and welded feet.					
22 47 26 00-0003	EA	Floor Mounted Hanger Plate Type, Single Water Cooler Carrier		348.42	38.98
		For Up To 4" Extension Sleeves And Hardware, Add		14.73	
		For Bi-Level Carrier, Add		181.64	
22 47 26 00-0004	EA	Floor Mounted Bearing Plate Type, Single Water Cooler Carrier		375.08	38.98
		For Up To 4" Extension Sleeves And Hardware, Add		14.73	
		For Bi-Level Carrier, Add		181.64	
22 50 Pool And Fountain Plumbing Systems (22)					
22 51 Swimming Pool Plumbing Systems (22 50)					
22 51 13 Swimming Pool Piping (22 51)					
22 51 13 00-0001 Swimming Pool Gutters (22 51 13)					
22 51 13 00-0002	LF	Swimming Pool Gutters, Stainless.....		231.97	23.08
22 51 19 Swimming Pool Water Treatment Equipment (22 51)					
22 51 19 00-0001 Swimming Pool Heaters (22 51 19)					
Note: Excludes wiring, external piping, base or pad. Commercial pools.					
22 51 19 00-0002 Electric Pool Heaters (22 51 19 00-0001)					
22 51 19 00-0003	EA	12 KW Heater (1 Degree/Hour), For 4,800 Gallon Pool.....		3,008.77	205.12
22 51 19 00-0004	EA	18 KW Heater (1 Degree/Hour), For 7,200 Gallon Pool.....		3,352.76	220.51
22 51 19 00-0005	EA	24 KW Heater (1 Degree/Hour), For 9,600 Gallon Pool.....		3,737.63	256.41
22 51 19 00-0006	EA	30 KW Heater (1 Degree/Hour), For 12,000 Gallon Pool.....		3,994.26	307.69
22 51 19 00-0007	EA	36 KW Heater (1 Degree/Hour), For 14,400 Gallon Pool.....		4,490.20	430.76
22 51 19 00-0008	EA	60 KW Heater (1 Degree/Hour), For 24,000 Gallon Pool.....		5,273.14	615.37
22 51 19 00-0009 Gas Fired Pool Heaters (22 51 19 00-0001)					
22 51 19 00-0010	EA	120 MBH Output Gas Fired Pool Heater		3,468.99	461.88
22 51 19 00-0011	EA	180 MBH Output Gas Fired Pool Heater		4,006.37	548.48
22 51 19 00-0012	EA	240 MBH Output Gas Fired Pool Heater		5,358.77	962.25
22 51 19 00-0013	EA	300 MBH Output Gas Fired Pool Heater		6,516.97	1,154.70
22 51 19 00-0014	EA	360 MBH Output Gas Fired Pool Heater		6,935.25	1,279.29
22 51 19 00-0015	EA	400 MBH Output Gas Fired Pool Heater		7,954.08	1,496.30
22 51 19 00-0016	EA	500 MBH Output Gas Fired Pool Heater		12,291.49	1,795.56
22 51 19 00-0017	EA	600 MBH Output Gas Fired Pool Heater		14,165.14	1,995.07
22 51 19 00-0018	EA	750 MBH Output Gas Fired Pool Heater		15,914.03	2,154.67
22 51 19 00-0019	EA	1,000 MBH Output Gas Fired Pool Heater		20,225.37	2,543.71
22 51 19 00-0020 Surge Tanks (22 51 19)					
Note: Includes 100 GPM vertical pump with 2 HP motor and electronic float switch. Prices are for 1' To 5' sump depth for pump.					
22 51 19 00-0021	EA	1,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....		11,652.32	770.20
22 51 19 00-0022	EA	1,500 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....		12,939.67	770.20
22 51 19 00-0023	EA	2,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....		15,536.65	932.82
22 51 19 00-0024	EA	5,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....		20,999.45	1,505.48
22 51 19 00-0025 Diatomite Type Filter System (22 51 19)					
22 51 19 00-0026	EA	35,000 Gallon Filter System, Diatomite		12,072.09	2,591.67
22 51 19 00-0027	EA	45,000 Gallon Filter System, Diatomite		14,413.18	3,110.00
22 51 19 00-0028 Silver Recovery System, X-Ray Film Processing (22 51 19)					
22 51 19 00-0029	EA	20 Gallon/Day Capacity, Silver Recovery System		1,518.96	348.23

22 Plumbing**22 50 Pool And Fountain Plumbing Systems****22 51 Swimming Pool Plumbing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 19 00-0030 EA 40 Gallon/Day Capacity, Silver Recovery System	2,199.74	464.35
22 51 19 00-0031 Inline Water Filter (22 51 19) Note: 3/8" NPT threaded inlet and outlet, 125 PSI, includes one filter cartridge.		
22 51 19 00-0032 EA 2 GPM Water Filter, 100 Degree Temperature, 8" x 5" Diameter, Plastic Body.....	220.24	102.56
22 51 19 00-0033 EA 6 GPM Water Filter, 250 Degree Temperature, 12" x 5" Diameter, Stainless Steel Body.....	363.36	153.84

22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities (22)

22 63 Gas Systems For Laboratory And Healthcare Facilities (22 60)

22 63 13 Gas Piping For Laboratory And Healthcare Facilities (22 63)

22 63 13 53 Laboratory Gas Piping (22 63 13)

See CSI section 23 21 13 23-0001 for black steel pipe, 23 21 13 23-2049 for PVC piping.

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)

22 66 53 Laboratory Chemical-Waste And Vent Piping (22 66)

22 66 53 00-0001 Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
22 66 53 00-0002 Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings (22 66 53 00-0001)		
22 66 53 00-0003 Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)		
22 66 53 00-0004 LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	12.40	5.85
For Schedule 80, Add	1.87	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	1.60	
For Work In Restricted Working Space, Add	2.64	
22 66 53 00-0005 LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	14.76	6.56
For Schedule 80, Add	2.52	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	2.16	
For Work In Restricted Working Space, Add	2.97	
22 66 53 00-0006 LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	23.11	9.54
For Schedule 80, Add	4.56	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	3.90	
For Work In Restricted Working Space, Add	4.31	
22 66 53 00-0007 LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	31.08	12.41
For Schedule 80, Add	6.46	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	5.53	
For Work In Restricted Working Space, Add	5.60	
22 66 53 00-0008 LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	49.76	18.26
For Schedule 80, Add	11.65	
For Fire Retardant Thermoplastic Pipe (Proxylene), Add	9.97	
For Work In Restricted Working Space, Add	8.21	
22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)		
22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	47.54	22.05
For Work In Restricted Working Space, Add	9.92	
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	61.60	29.12
For Work In Restricted Working Space, Add	13.09	
22 66 53 00-0012 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	80.52	33.34
For Work In Restricted Working Space, Add	15.01	
22 66 53 00-0013 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	114.71	44.10
For Work In Restricted Working Space, Add	19.85	
22 66 53 00-0014 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	216.97	65.12
For Work In Restricted Working Space, Add	29.30	
22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0016 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	47.30	22.05
For Work In Restricted Working Space, Add	9.92	
22 66 53 00-0017 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	60.95	29.12
For Work In Restricted Working Space, Add	13.09	
22 66 53 00-0018 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	81.77	33.34
For Work In Restricted Working Space, Add	15.01	
22 66 53 00-0019 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	102.17	44.10
For Work In Restricted Working Space, Add	19.85	
22 66 53 00-0020 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	197.53	65.12
For Work In Restricted Working Space, Add	29.30	
22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	88.69	47.18
For Work In Restricted Working Space, Add	21.22	



	Plumbing	22	
Gas and Vacuum Systems For Laboratory And Healthcare Facilities	22 60		22
Chemical-Waste Systems for Laboratory and Healthcare Facilities	22 66		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	110.70 26.75	59.48
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	140.72 29.30	65.12
22 66 53 00-0025 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	192.68 38.46	85.54
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	333.34 61.54	136.82
22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	110.67 26.75	59.48
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	137.72 29.30	65.12
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	135.05 29.30	65.12
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	185.83 38.46	85.54
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	188.41 38.46	85.54
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	314.26 61.54	136.82
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug (22 66 53 00-0002)		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	97.46 21.22	47.18
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	112.82 26.75	59.48
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	147.22 29.30	65.12
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	195.67 38.46	85.54
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug <i>For Work In Restricted Working Space, Add</i>	296.34 61.54	136.82
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes (22 66 53 00-0002)		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	93.62 21.22	47.18
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	115.26 26.75	59.48
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	143.44 29.30	65.12
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	194.93 38.46	85.54
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	374.51 61.54	136.82
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes (22 66 53 00-0002)		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	121.29 26.75	59.48
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	140.35 29.30	65.12
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	140.35 29.30	65.12
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	192.26 38.46	85.54
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	192.26 38.46	85.54
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	339.05 61.54	136.82
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	341.12 61.54	136.82
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	315.13 61.54	136.82
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses (22 66 53 00-0002)		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross <i>For Work In Restricted Working Space, Add</i>	116.58 26.53	58.97
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	145.22 33.44	74.36
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	189.58 36.63	81.44
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	261.32 48.08	106.87

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	457.41 76.92	170.97
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	87.09 21.22	47.18
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	113.08 26.75	59.48
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	128.25 29.30	65.12
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	175.77 38.46	85.54
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	105.97 26.75	59.48
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	125.39 29.30	65.12
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	126.54 29.30	65.12
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	171.51 38.46	85.54
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	172.24 38.46	85.54
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	102.57 24.62	54.77
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	136.19 32.39	72.00
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	202.05 43.96	97.75
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	279.78 55.94	124.41
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	46.86 9.92	22.05
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	58.00 13.09	29.12
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	67.80 15.01	33.34
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	91.79 19.85	44.10
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	136.03 29.30	65.12
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	45.13 9.92	22.05
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	59.31 13.09	29.12
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	70.20 15.01	33.34
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	94.14 19.85	44.10
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	42.98 9.92	22.05
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	55.45 13.09	29.12
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	64.36 15.01	33.34
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	85.12 19.85	44.10
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	125.22 29.30	65.12
22 66 53 00-0093 Glass Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
22 66 53 00-0094 Glass Acid Resistant DWV Pipe (22 66 53 00-0093)		
22 66 53 00-0095 LF 1-1/2" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	19.86 3.38	5.64
22 66 53 00-0096 LF 2" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	23.99 3.69	6.15



		Plumbing	22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0097 LF 3" Glass Acid Resistant DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	33.35 5.19	8.62
22 66 53 00-0098 LF 4" Glass Acid Resistant DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	51.57 6.72	11.18
22 66 53 00-0099 LF 6" Glass Acid Resistant DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	82.85 9.16	15.28
22 66 53 00-0100 Glass Acid Resistant DWV 90 Or 60 Degree Sweeps (22 66 53 00-0093)		
22 66 53 00-0101 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	68.41 15.05	25.13
22 66 53 00-0102 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep..... <i>For Work In Restricted Working Space, Add</i>	76.28 15.97	26.67
22 66 53 00-0103 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Sweep..... <i>For Work In Restricted Working Space, Add</i>	98.47 18.15	30.26
22 66 53 00-0104 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Sweep..... <i>For Work In Restricted Working Space, Add</i>	140.61 24.00	40.00
22 66 53 00-0105 EA 6" Glass Acid Resistant DWV 90 Or 60 Degree Sweep..... <i>For Work In Restricted Working Space, Add</i>	295.49 33.23	55.38
22 66 53 00-0106 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweeps (22 66 53 00-0093)		
22 66 53 00-0107 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	68.63 15.11	25.23
22 66 53 00-0108 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	75.86 15.84	26.36
22 66 53 00-0109 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	98.26 18.09	30.15
22 66 53 00-0110 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	140.61 24.00	40.00
22 66 53 00-0111 EA 6" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	295.47 33.23	55.38
22 66 53 00-0112 Glass Acid Resistant DWV 90 Or 60 Degree Bends (22 66 53 00-0093)		
22 66 53 00-0113 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	69.13 15.11	25.23
22 66 53 00-0114 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	76.45 15.84	26.36
22 66 53 00-0115 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	99.31 18.09	30.15
22 66 53 00-0116 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	140.61 24.00	40.00
22 66 53 00-0117 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bends (22 66 53 00-0093)		
22 66 53 00-0118 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	69.13 15.11	25.23
22 66 53 00-0119 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	76.45 15.84	26.36
22 66 53 00-0120 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	99.31 18.09	30.15
22 66 53 00-0121 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend..... <i>For Work In Restricted Working Space, Add</i>	140.61 24.00	40.00
22 66 53 00-0122 Glass Acid Resistant DWV 90 Degree Bends With Long Leg (22 66 53 00-0093)		
22 66 53 00-0123 EA 1-1/2" Glass Acid Resistant DWV 90 Degree Bend With Long Leg..... <i>For Work In Restricted Working Space, Add</i>	76.24 15.11	25.23
22 66 53 00-0124 EA 2" Glass Acid Resistant DWV 90 Degree Bends With Long Leg <i>For Work In Restricted Working Space, Add</i>	86.68 15.84	26.36
22 66 53 00-0125 Glass Acid Resistant DWV Double Quarter Bends (22 66 53 00-0093)		
22 66 53 00-0126 EA 1-1/2" Glass Acid Resistant DWV Double Quarter Bend <i>For Work In Restricted Working Space, Add</i>	108.17 22.67	37.74
22 66 53 00-0127 EA 2" x 1-1/2" Glass Acid Resistant DWV Double Quarter Bend <i>For Work In Restricted Working Space, Add</i>	127.54 23.45	39.08
22 66 53 00-0128 EA 2" Glass Acid Resistant DWV Double Quarter Bend <i>For Work In Restricted Working Space, Add</i>	122.04 23.77	39.59
22 66 53 00-0129 EA 3" Glass Acid Resistant DWV Double Quarter Bend <i>For Work In Restricted Working Space, Add</i>	156.83 27.14	45.23
22 66 53 00-0130 EA 4" Glass Acid Resistant DWV Double Quarter Bend <i>For Work In Restricted Working Space, Add</i>	244.04 35.99	60.00
22 66 53 00-0131 EA 6" Glass Acid Resistant DWV Double Quarter Bend <i>For Work In Restricted Working Space, Add</i>	365.32 49.85	83.08
22 66 53 00-0132 Glass Acid Resistant DWV Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0133 EA 1-1/2" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	105.33 22.77	37.95

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0134 EA 2" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	108.41 23.69	39.49
22 66 53 00-0135 EA 3" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	134.16 27.08	45.13
22 66 53 00-0136 EA 4" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	198.76 36.00	60.00
22 66 53 00-0137 EA 6" Glass Acid Resistant DWV Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	377.17 49.85	83.08
22 66 53 00-0138 Glass Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0139 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	107.38 23.39	38.98
22 66 53 00-0140 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	123.94 25.54	42.56
22 66 53 00-0141 EA 3" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	130.03 26.15	43.59
22 66 53 00-0142 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	164.35 31.69	52.82
22 66 53 00-0143 EA 4" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	170.21 32.00	53.33
22 66 53 00-0144 EA 4" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	177.64 32.93	54.87
22 66 53 00-0145 EA 6" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	285.54 41.23	68.71
22 66 53 00-0146 EA 6" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	304.08 42.15	70.26
22 66 53 00-0147 EA 6" x 4" Glass Acid Resistant DWV Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	315.18 45.23	75.39
22 66 53 00-0148 Glass Acid Resistant DWV Double Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0149 EA 1-1/2" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	145.66 30.16	50.25
22 66 53 00-0150 EA 2" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	150.77 31.69	52.82
22 66 53 00-0151 EA 3" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	187.37 36.31	60.51
22 66 53 00-0152 EA 4" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	287.12 47.99	80.00
22 66 53 00-0153 EA 6" Glass Acid Resistant DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	480.86 66.47	110.76
22 66 53 00-0154 Glass Acid Resistant DWV Reducing Double Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0155 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	148.72 31.07	51.79
22 66 53 00-0156 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	167.38 33.23	55.38
22 66 53 00-0157 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	174.78 33.85	56.41
22 66 53 00-0158 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	237.66 39.08	65.12
22 66 53 00-0159 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	237.53 40.00	66.66
22 66 53 00-0160 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	253.67 42.16	70.26
22 66 53 00-0161 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	325.33 49.22	82.05
22 66 53 00-0162 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	350.25 51.38	85.64
22 66 53 00-0163 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	395.10 57.22	95.38
22 66 53 00-0164 Glass Acid Resistant DWV Tees (22 66 53 00-0093)		
22 66 53 00-0165 EA 1-1/2" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	112.32 22.77	37.95
22 66 53 00-0166 EA 2" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	115.39 23.69	39.49
22 66 53 00-0167 EA 3" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	142.84 27.08	45.13
22 66 53 00-0168 EA 4" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	212.36 35.99	60.00
22 66 53 00-0169 EA 6" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	393.50 49.85	83.08
22 66 53 00-0170 Glass Acid Resistant DWV Reducing Tees (22 66 53 00-0093)		
22 66 53 00-0171 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	114.35 23.38	38.98
22 66 53 00-0172 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	131.22 25.54	42.56



Plumbing			22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities			22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities			22 66

22

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0173	EA	3" x 2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	134.32 26.15	43.59
22 66 53 00-0174	EA	4" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	165.96 31.70	52.82
22 66 53 00-0175	EA	4" x 2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	169.46 32.00	53.33
22 66 53 00-0176	EA	4" x 3" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	194.01 32.93	54.87
22 66 53 00-0177	EA	6" x 3" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	334.00 42.15	70.26
22 66 53 00-0178	EA	6" x 4" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	350.17 45.22	75.39
22 66 53 00-0179 Glass Acid Resistant DWV Test Tees With Cleanout (22 66 53 00-0093)				
22 66 53 00-0180	EA	1-1/2" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	124.29 22.77	37.95
22 66 53 00-0181	EA	2" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	135.69 23.69	39.49
22 66 53 00-0182	EA	3" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	168.43 27.08	45.13
22 66 53 00-0183	EA	4" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	270.68 35.99	60.00
22 66 53 00-0184	EA	6" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	393.50 49.85	83.08
22 66 53 00-0185 Glass Acid Resistant DWV Wyes (22 66 53 00-0093)				
22 66 53 00-0186	EA	1-1/2" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	106.83 22.77	37.95
22 66 53 00-0187	EA	2" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	109.90 23.69	39.49
22 66 53 00-0188	EA	3" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	140.14 27.08	45.13
22 66 53 00-0189	EA	4" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	205.43 35.99	60.00
22 66 53 00-0190	EA	6" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	372.60 49.85	83.08
22 66 53 00-0191 Glass Acid Resistant DWV Reducing Wyes (22 66 53 00-0093)				
22 66 53 00-0192	EA	2" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	108.86 23.38	38.98
22 66 53 00-0193	EA	3" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	127.03 25.54	42.56
22 66 53 00-0194	EA	3" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	130.38 26.15	43.59
22 66 53 00-0195	EA	4" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	170.35 31.70	52.82
22 66 53 00-0196	EA	4" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	171.96 32.00	53.33
22 66 53 00-0197	EA	4" x 3" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	183.54 32.93	54.87
22 66 53 00-0198	EA	6" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	279.03 41.22	68.71
22 66 53 00-0199	EA	6" x 3" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	313.25 42.15	70.26
22 66 53 00-0200	EA	6" x 4" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	339.39 45.22	75.39
22 66 53 00-0201 Glass Acid Resistant DWV Double Wyes (22 66 53 00-0093)				
22 66 53 00-0202	EA	1-1/2" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	160.72 30.15	50.25
22 66 53 00-0203	EA	2" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	165.86 31.70	52.82
22 66 53 00-0204	EA	3" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	210.75 36.30	60.51
22 66 53 00-0205	EA	4" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	311.00 47.99	80.00
22 66 53 00-0206	EA	6" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	493.81 66.49	110.76
22 66 53 00-0207 Glass Acid Resistant DWV Reducing Double Wyes (22 66 53 00-0093)				
22 66 53 00-0208	EA	2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	163.77 31.07	51.79
22 66 53 00-0209	EA	3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	170.96 33.23	55.38
22 66 53 00-0210	EA	3" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	189.37 33.84	56.41
22 66 53 00-0211	EA	4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	228.31 39.09	65.12

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0212 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	238.73 40.00	66.66
22 66 53 00-0213 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	271.94 42.15	70.26
22 66 53 00-0214 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	391.73 49.21	82.05
22 66 53 00-0215 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	410.67 51.38	85.64
22 66 53 00-0216 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	443.19 57.23	95.38
22 66 53 00-0217 Glass Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0093)		
22 66 53 00-0218 EA 1-1/2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	114.73 22.77	37.95
22 66 53 00-0219 EA 2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	118.13 23.69	39.49
22 66 53 00-0220 EA 3" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	145.03 27.08	45.13
22 66 53 00-0221 EA 4" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	207.98 35.99	60.00
22 66 53 00-0222 EA 6" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	365.47 49.85	83.08
22 66 53 00-0223 Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0093)		
22 66 53 00-0224 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	117.09 23.38	38.98
22 66 53 00-0225 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	128.28 25.54	42.56
22 66 53 00-0226 EA 3" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	135.37 26.15	43.59
22 66 53 00-0227 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	167.36 31.70	52.82
22 66 53 00-0228 EA 4" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	172.61 32.00	53.33
22 66 53 00-0229 EA 4" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	184.29 32.93	54.87
22 66 53 00-0230 EA 6" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	279.48 41.22	68.71
22 66 53 00-0231 EA 6" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	308.91 42.15	70.26
22 66 53 00-0232 EA 6" x 4" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	319.44 45.22	75.39
22 66 53 00-0233 Glass Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0093)		
22 66 53 00-0234 EA 1-1/2" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	153.24 30.15	50.25
22 66 53 00-0235 EA 2" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	172.15 31.70	52.82
22 66 53 00-0236 EA 3" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	220.23 36.30	60.51
22 66 53 00-0237 EA 4" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	333.05 47.99	80.00
22 66 53 00-0238 EA 6" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	529.00 66.49	110.76
22 66 53 00-0239 Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0093)		
22 66 53 00-0240 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	157.43 31.07	51.79
22 66 53 00-0241 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	188.62 33.23	55.38
22 66 53 00-0242 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	187.78 33.84	56.41
22 66 53 00-0243 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	240.58 39.09	65.12
22 66 53 00-0244 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	240.68 40.00	66.66
22 66 53 00-0245 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	265.01 42.15	70.26
22 66 53 00-0246 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	359.59 49.21	82.05
22 66 53 00-0247 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	381.24 51.38	85.64
22 66 53 00-0248 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	439.70 57.23	95.38
22 66 53 00-0249 Glass Acid Resistant DWV Partition Crosses (Compact) (22 66 53 00-0093)		



			Plumbing	22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities			22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities			22 66	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI				UNIT COST		
22 66 53 00-0250	EA		2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact).....	167.41		51.79
			<i>For Work In Restricted Working Space, Add</i>	31.07		
22 66 53 00-0251	EA		2" Glass Acid Resistant DWV Partition Cross (Compact).....	169.50		52.82
			<i>For Work In Restricted Working Space, Add</i>	31.70		
22 66 53 00-0252	EA		2" x 1-1/2" x 1-1/2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)	175.69		51.28
			<i>For Work In Restricted Working Space, Add</i>	30.77		
22 66 53 00-0253 Glass Acid Resistant DWV Upright Y Or H (Vent Branch) (22 66 53 00-0093)						
22 66 53 00-0254	EA		1-1/2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)	150.43		37.95
			<i>For Work In Restricted Working Space, Add</i>	22.77		
22 66 53 00-0255	EA		2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	163.22		39.49
			<i>For Work In Restricted Working Space, Add</i>	23.69		
22 66 53 00-0256	EA		3" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	187.48		45.13
			<i>For Work In Restricted Working Space, Add</i>	27.08		
22 66 53 00-0257	EA		4" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	268.33		60.00
			<i>For Work In Restricted Working Space, Add</i>	35.99		
22 66 53 00-0258	EA		6" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	471.82		83.08
			<i>For Work In Restricted Working Space, Add</i>	49.85		
22 66 53 00-0259 Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch) (22 66 53 00-0093)						
22 66 53 00-0260	EA		2" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch).....	152.16		38.98
			<i>For Work In Restricted Working Space, Add</i>	23.38		
22 66 53 00-0261	EA		3" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch).....	171.63		42.56
			<i>For Work In Restricted Working Space, Add</i>	25.54		
22 66 53 00-0262	EA		3" x 2" Reducing Glass Upright Y Or H (Vent Branch).....	180.91		43.59
			<i>For Work In Restricted Working Space, Add</i>	26.15		
22 66 53 00-0263	EA		4" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch).....	212.25		52.82
			<i>For Work In Restricted Working Space, Add</i>	31.70		
22 66 53 00-0264	EA		4" x 2" Reducing Glass Upright Y Or H (Vent Branch).....	221.89		53.33
			<i>For Work In Restricted Working Space, Add</i>	32.00		
22 66 53 00-0265	EA		4" x 3" Reducing Glass Upright Y Or H (Vent Branch).....	239.76		54.87
			<i>For Work In Restricted Working Space, Add</i>	32.93		
22 66 53 00-0266	EA		6" x 3" Reducing Glass Upright Y Or H (Vent Branch).....	336.05		70.26
			<i>For Work In Restricted Working Space, Add</i>	42.15		
22 66 53 00-0267	EA		6" x 4" Reducing Glass Upright Y Or H (Vent Branch).....	377.80		75.39
			<i>For Work In Restricted Working Space, Add</i>	45.22		
22 66 53 00-0268 Glass Acid Resistant DWV Reducers Or Increases (22 66 53 00-0093)						
22 66 53 00-0269	EA		2" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	67.24		25.65
			<i>For Eccentric Reducers Or Increases, Add</i>	1.28		
			<i>For Work In Restricted Working Space, Add</i>	15.38		
22 66 53 00-0270	EA		3" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	79.08		27.70
			<i>For Eccentric Reducers Or Increases, Add</i>	1.90		
			<i>For Work In Restricted Working Space, Add</i>	16.61		
22 66 53 00-0271	EA		3" x 2" Glass Acid Resistant DWV Reducer Or Increaser.....	82.95		28.21
			<i>For Eccentric Reducers Or Increases, Add</i>	2.12		
			<i>For Work In Restricted Working Space, Add</i>	16.92		
22 66 53 00-0272	EA		4" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	102.70		32.82
			<i>For Eccentric Reducers Or Increases, Add</i>	2.96		
			<i>For Work In Restricted Working Space, Add</i>	19.69		
22 66 53 00-0273	EA		4" x 2" Glass Acid Resistant DWV Reducer Or Increaser.....	106.02		33.34
			<i>For Eccentric Reducers Or Increases, Add</i>	3.15		
			<i>For Work In Restricted Working Space, Add</i>	20.00		
22 66 53 00-0274	EA		4" x 3" Glass Acid Resistant DWV Reducer Or Increaser.....	112.29		34.87
			<i>For Eccentric Reducers Or Increases, Add</i>	3.40		
			<i>For Work In Restricted Working Space, Add</i>	20.92		
22 66 53 00-0275	EA		6" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	188.78		40.51
			<i>For Eccentric Reducers Or Increases, Add</i>	8.62		
			<i>For Work In Restricted Working Space, Add</i>	24.31		
22 66 53 00-0276	EA		6" x 2" Glass Acid Resistant DWV Reducer Or Increaser.....	196.63		41.03
			<i>For Eccentric Reducers Or Increases, Add</i>	9.17		
			<i>For Work In Restricted Working Space, Add</i>	24.62		
22 66 53 00-0277	EA		6" x 3" Glass Acid Resistant DWV Reducer Or Increaser.....	207.55		42.56
			<i>For Eccentric Reducers Or Increases, Add</i>	9.79		
			<i>For Work In Restricted Working Space, Add</i>	25.54		
22 66 53 00-0278	EA		6" x 4" Glass Acid Resistant DWV Reducer Or Increaser.....	221.34		47.69
			<i>For Eccentric Reducers Or Increases, Add</i>	10.08		
			<i>For Work In Restricted Working Space, Add</i>	28.61		
22 66 53 00-0279 Glass Acid Resistant DWV Swivel P-Traps (22 66 53 00-0093)						
22 66 53 00-0280	EA		1-1/2" Glass Acid Resistant DWV Swivel P-Trap.....	132.07		37.95
			<i>For Work In Restricted Working Space, Add</i>	22.77		
22 66 53 00-0281	EA		2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap.....	139.46		38.98
			<i>For Work In Restricted Working Space, Add</i>	23.39		
22 66 53 00-0282	EA		2" Glass Acid Resistant DWV Swivel P-Trap.....	151.71		39.49
			<i>For Work In Restricted Working Space, Add</i>	23.69		
22 66 53 00-0283	EA		1-1/2" Glass Acid Resistant DWV Swivel P-Trap.....	139.35		37.95
			<i>For Work In Restricted Working Space, Add</i>	22.77		

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0284 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	148.74 23.39	38.98
22 66 53 00-0285 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	162.19 23.69	39.49
22 66 53 00-0286 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	141.35 22.77	37.95
22 66 53 00-0287 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	148.74 23.39	38.98
22 66 53 00-0288 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	162.19 23.69	39.49
22 66 53 00-0289 Glass Acid Resistant DWV Drum P-Traps (22 66 53 00-0093)		
22 66 53 00-0290 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	164.00 22.77	37.95
22 66 53 00-0291 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	196.17 23.39	38.98
22 66 53 00-0292 EA 2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	201.20 23.69	39.49
22 66 53 00-0293 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	176.12 22.77	37.95
22 66 53 00-0294 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	185.25 23.39	38.98
22 66 53 00-0295 EA 2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	203.54 23.69	39.49
22 66 53 00-0296 Glass Acid Resistant DWV Cleanout Plugs (22 66 53 00-0093)		
22 66 53 00-0297 EA 1-1/2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	33.08 7.70	12.82
22 66 53 00-0298 EA 2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	36.05 8.00	13.33
22 66 53 00-0299 EA 3" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	43.17 8.93	14.87
22 66 53 00-0300 EA 4" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	64.14 12.00	20.00
22 66 53 00-0301 EA 6" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	90.65 16.61	27.70
22 66 53 00-0302 Glass Acid Resistant DWV Sink Fittings (22 66 53 00-0093)		
22 66 53 00-0303 EA 1-1/2" Glass Acid Resistant DWV Interceptor Trap..... <i>For Work In Restricted Working Space, Add</i>	313.56 30.15	50.25
22 66 53 00-0304 EA 1-1/2" x 6-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly..... <i>For Work In Restricted Working Space, Add</i>	39.47 7.70	12.82
22 66 53 00-0305 EA 1-1/2" x 10-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly..... <i>For Work In Restricted Working Space, Add</i>	42.11 7.70	12.82
22 66 53 00-0306 EA 1-1/2" Split Coupling (Threaded To Beaded Pipe) For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	67.64 15.38	25.65
22 66 53 00-0307 EA 3" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	107.95 16.00	26.67
22 66 53 00-0308 EA 6" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	108.95 16.00	26.67
22 66 53 00-0309 EA 3" x 9" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	118.93 16.00	26.67
22 66 53 00-0310 EA 3" x 6" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	102.57 16.00	26.67
22 66 53 00-0311 Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapters (22 66 53 00-0093)		
Note: Includes teflon spacer.		
22 66 53 00-0312 EA 1-1/2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	112.69 22.70	37.85
22 66 53 00-0313 EA 2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	117.84 23.81	39.69
22 66 53 00-0314 EA 3" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	151.84 27.14	45.23
22 66 53 00-0315 EA 4" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	211.43 36.03	60.10
22 66 53 00-0316 Bead To Bead Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093)		
Note: Includes segmented stainless steel outer band, Buna-N rubber compression liner with TFE seal ring, stainless steel bolt and silver plated stainless hex nut.		
22 66 53 00-0317 EA 1-1/2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	12.52	
22 66 53 00-0318 EA 2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	15.80	
22 66 53 00-0319 EA 3" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	21.12	
22 66 53 00-0320 EA 4" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	35.58	
22 66 53 00-0321 EA 6" Bead To Bead, Stainless Steel, TFE Seal Ring Couplings, Glass Piping.....	82.89	



Plumbing		22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0322	Bead To Plain End Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093) Note: Includes stainless steel band with bolt, Buna-N rubber compression liner with TFE seal ring and silver plated stainless hex nut.		
22 66 53 00-0323	EA 1-1/2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	16.15	
22 66 53 00-0324	EA 2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	20.20	
22 66 53 00-0325	EA 3" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	34.30	
22 66 53 00-0326	EA 4" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	51.13	
22 66 53 00-0327	EA 6" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	124.67	
22 66 53 00-0328	Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: Acid resistant. ASTM A518.		
22 66 53 00-0329	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0328)		
22 66 53 00-0330	LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	66.36	9.13
22 66 53 00-0331	LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	92.53	11.38
22 66 53 00-0332	LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	124.50	13.13
22 66 53 00-0333	LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	201.59	17.86
22 66 53 00-0334	LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	351.47	23.96
22 66 53 00-0335	LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	614.59	30.22
22 66 53 00-0336	LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	1,088.41	40.70
22 66 53 00-0337	LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe.....	1,923.81	46.67
22 66 53 00-0338	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0328)		
22 66 53 00-0339	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0338)		
22 66 53 00-0340	EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	289.95	77.74
22 66 53 00-0341	EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	369.39	85.54
22 66 53 00-0342	EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	578.10	102.36
22 66 53 00-0343	EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	836.61	117.95
22 66 53 00-0344	EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	1,877.90	192.55
22 66 53 00-0345	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0338)		
22 66 53 00-0346	EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	188.30	77.74
22 66 53 00-0347	EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	235.85	85.54
22 66 53 00-0348	EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	293.07	102.36
22 66 53 00-0349	EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	679.14	117.95
22 66 53 00-0350	EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,498.59	192.55
22 66 53 00-0351	EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,246.04	239.89
22 66 53 00-0352	EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,261.96	288.48
22 66 53 00-0353	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0338)		
22 66 53 00-0354	EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	188.30	77.74
22 66 53 00-0355	EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	235.85	85.54
22 66 53 00-0356	EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	293.07	102.36
22 66 53 00-0357	EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	515.69	117.95
22 66 53 00-0358	EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	1,287.30	192.55
22 66 53 00-0359	EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	1,857.65	239.89
22 66 53 00-0360	EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,604.49	288.48
22 66 53 00-0361	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0338)		
22 66 53 00-0362	EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	188.30	77.74
22 66 53 00-0363	EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	235.85	85.54
22 66 53 00-0364	EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	292.82	102.26
22 66 53 00-0365	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0338)		
22 66 53 00-0366	EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	240.12	77.74
22 66 53 00-0367	EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	393.31	85.54
22 66 53 00-0368	EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	444.56	102.36
22 66 53 00-0369	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0338)		
22 66 53 00-0370	EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	270.11	116.30
22 66 53 00-0371	EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	328.84	128.92
22 66 53 00-0372	EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	442.11	153.95
22 66 53 00-0373	EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	684.33	177.25
22 66 53 00-0374	EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,950.27	289.06
22 66 53 00-0375	EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	2,740.66	360.94

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0376	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0338)			
22 66 53 00-0377	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	254.88	111.49
22 66 53 00-0378	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	291.10	119.69
22 66 53 00-0379	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	319.30	123.89
22 66 53 00-0380	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	362.59	136.82
22 66 53 00-0381	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	385.08	141.12
22 66 53 00-0382	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	417.14	145.34
22 66 53 00-0383	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	499.38	153.38
22 66 53 00-0384	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	546.85	157.32
22 66 53 00-0385	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	605.52	164.56
22 66 53 00-0386	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0338)			
22 66 53 00-0387	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	297.95	116.30
22 66 53 00-0388	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	352.25	128.62
22 66 53 00-0389	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	467.99	153.95
22 66 53 00-0390	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0338)			
22 66 53 00-0391	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	282.76	111.49
22 66 53 00-0392	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	344.08	124.51
22 66 53 00-0393	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	409.59	141.54
22 66 53 00-0394	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	435.72	145.74
22 66 53 00-0395	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0338)			
22 66 53 00-0396	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	268.32	116.51
22 66 53 00-0397	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	350.77	128.92
22 66 53 00-0398	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	441.93	153.84
22 66 53 00-0399	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	687.29	176.59
22 66 53 00-0400	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	2,400.30	288.77
22 66 53 00-0401	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0338)			
22 66 53 00-0402	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	270.80	111.49
22 66 53 00-0403	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	291.05	119.69
22 66 53 00-0404	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	306.43	124.62
22 66 53 00-0405	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	340.66	136.82
22 66 53 00-0406	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	353.43	141.33
22 66 53 00-0407	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	409.81	145.74
22 66 53 00-0408	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	521.27	153.57
22 66 53 00-0409	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	604.65	157.32
22 66 53 00-0410	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	631.43	164.56
22 66 53 00-0411	EA	8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,447.59	232.96
22 66 53 00-0412	EA	8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,556.78	240.66
22 66 53 00-0413	EA	8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,880.13	252.98
22 66 53 00-0414	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0338)			
22 66 53 00-0415	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	305.86	116.30
22 66 53 00-0416	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	358.23	128.62
22 66 53 00-0417	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	507.85	153.95
22 66 53 00-0418	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	739.45	176.77
22 66 53 00-0419	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0338)			
22 66 53 00-0420	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	262.83	111.49
22 66 53 00-0421	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	299.03	119.69
22 66 53 00-0422	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	326.14	124.51
22 66 53 00-0423	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	354.61	136.82
22 66 53 00-0424	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	399.63	141.54
22 66 53 00-0425	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	443.64	145.64
22 66 53 00-0426	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	547.12	153.57
22 66 53 00-0427	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	662.52	157.41
22 66 53 00-0428	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	721.52	164.84
22 66 53 00-0429	Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers (22 66 53 00-0338)			
22 66 53 00-0430	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	165.57	73.23
22 66 53 00-0431	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	179.67	77.33
22 66 53 00-0432	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	197.79	81.44
22 66 53 00-0433	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	292.84	90.26



Plumbing		22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0434 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	306.99	94.46
22 66 53 00-0435 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	326.96	98.40
22 66 53 00-0436 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	411.97	105.92
22 66 53 00-0437 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	593.20	144.44
22 66 53 00-0438 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	633.49	156.65
22 66 53 00-0439 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers (22 66 53 00-0338)		
22 66 53 00-0440 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	427.83	170.97
22 66 53 00-0441 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	531.48	170.97
22 66 53 00-0442 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	540.78	170.97
22 66 53 00-0443 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	617.96	219.45
22 66 53 00-0444 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00- 0338)		
22 66 53 00-0445 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	407.55	77.74
22 66 53 00-0446 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	487.00	85.54
22 66 53 00-0447 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	592.06	102.36
22 66 53 00-0448 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	1,629.92	117.95
22 66 53 00-0449 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs (22 66 53 00-0338)		
22 66 53 00-0450 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	226.17	77.74
22 66 53 00-0451 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	277.70	85.54
22 66 53 00-0452 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	372.80	102.36
22 66 53 00-0453 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	467.52	117.95
22 66 53 00-0454 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	872.65	164.56
22 66 53 00-0455 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0328)		
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0456 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	1.55	
22 66 53 00-0457 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	36.54	
22 66 53 00-0458 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
Note: ASTM A518.		
22 66 53 00-0459 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0458)		
22 66 53 00-0460 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	52.41	6.88
22 66 53 00-0461 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	59.54	7.59
22 66 53 00-0462 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	81.58	9.54
22 66 53 00-0463 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	102.26	11.08
22 66 53 00-0464 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00- 0458)		
22 66 53 00-0465 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0464)		
22 66 53 00-0466 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	211.24	54.46
22 66 53 00-0467 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	229.84	61.53
22 66 53 00-0468 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	305.06	67.90
22 66 53 00-0469 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	368.25	82.05
22 66 53 00-0470 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0464)		
22 66 53 00-0471 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	133.50	54.46
22 66 53 00-0472 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	157.13	60.92
22 66 53 00-0473 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	195.78	68.10
22 66 53 00-0474 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	251.71	81.44
22 66 53 00-0475 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	152.05	57.53
22 66 53 00-0476 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0464)		
22 66 53 00-0477 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	133.50	54.46
22 66 53 00-0478 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	157.13	60.92
22 66 53 00-0479 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	195.78	68.10
22 66 53 00-0480 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	251.71	81.44
22 66 53 00-0481 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends (22 66 53 00-0464)		
22 66 53 00-0482 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	151.44	54.46

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0483 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	185.03	60.92
22 66 53 00-0484 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	269.53	68.10
22 66 53 00-0485 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	305.53	81.44
22 66 53 00-0486 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0486)		
22 66 53 00-0487 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	147.46	54.46
22 66 53 00-0488 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	173.07	60.92
22 66 53 00-0489 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	251.59	68.10
22 66 53 00-0490 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	287.59	81.44
22 66 53 00-0491 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends (22 66 53 00-0491)		
22 66 53 00-0492 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	222.53	81.95
22 66 53 00-0493 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees (22 66 53 00-0493)		
22 66 53 00-0494 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	190.64	81.95
22 66 53 00-0495 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	230.08	92.31
22 66 53 00-0496 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	291.76	102.87
22 66 53 00-0497 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	421.81	123.18
22 66 53 00-0498 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees (22 66 53 00-0498)		
22 66 53 00-0499 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	216.90	88.82
22 66 53 00-0500 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	257.19	95.79
22 66 53 00-0501 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	272.22	99.18
22 66 53 00-0502 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	293.57	109.44
22 66 53 00-0503 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	318.21	112.51
22 66 53 00-0504 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	341.27	115.89
22 66 53 00-0505 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0505)		
22 66 53 00-0506 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	191.04	82.25
22 66 53 00-0507 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye	222.11	92.31
22 66 53 00-0508 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye	283.79	102.87
22 66 53 00-0509 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye	421.81	123.18
22 66 53 00-0510 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0510)		
22 66 53 00-0511 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	211.61	89.33
22 66 53 00-0512 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	251.18	95.69
22 66 53 00-0513 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	262.71	99.48
22 66 53 00-0514 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	294.07	109.74
22 66 53 00-0515 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	319.13	113.13
22 66 53 00-0516 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	335.71	116.20
22 66 53 00-0517 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes (22 66 53 00-0517)		
22 66 53 00-0518 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	277.85	109.54
22 66 53 00-0519 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	344.21	123.28
22 66 53 00-0520 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	427.71	136.41
22 66 53 00-0521 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	548.86	163.99
22 66 53 00-0522 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	303.53	116.00
22 66 53 00-0523 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	335.69	122.87
22 66 53 00-0524 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	389.77	129.64
22 66 53 00-0525 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	430.48	143.59
22 66 53 00-0526 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	505.19	150.86
22 66 53 00-0527 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses (22 66 53 00-0527)		
22 66 53 00-0528 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	301.69	109.54
22 66 53 00-0529 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	351.95	123.08
22 66 53 00-0530 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	480.70	137.12
22 66 53 00-0531 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	654.76	164.21
22 66 53 00-0532 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	323.40	116.00
22 66 53 00-0533 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	405.41	122.87
22 66 53 00-0534 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	427.57	129.64
22 66 53 00-0535 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	460.33	143.49
22 66 53 00-0536 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	566.19	150.25



Plumbing			22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities			22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities			22 66

MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST		
22 66 53 00-0537		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0464)			
22 66 53 00-0538	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	206.18		81.64
22 66 53 00-0539	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	238.05		92.31
22 66 53 00-0540	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	283.79		102.87
22 66 53 00-0541	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	443.73		123.18
22 66 53 00-0542		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0464)			
22 66 53 00-0543	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	226.94		88.92
22 66 53 00-0544	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	251.58		96.00
22 66 53 00-0545	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	270.68		99.48
22 66 53 00-0546	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	351.88		109.74
22 66 53 00-0547	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	360.99		113.13
22 66 53 00-0548	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	397.50		116.20
22 66 53 00-0549		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0464)			
22 66 53 00-0550	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	315.42		109.34
22 66 53 00-0551	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	387.73		122.97
22 66 53 00-0552	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	533.79		136.72
22 66 53 00-0553	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	641.32		164.51
22 66 53 00-0554		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0464)			
22 66 53 00-0555	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	341.34		116.00
22 66 53 00-0556	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	399.40		122.77
22 66 53 00-0557	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	417.60		129.64
22 66 53 00-0558	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	464.32		143.49
22 66 53 00-0559	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	566.19		150.25
22 66 53 00-0560		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers (22 66 53 00-0464)			
22 66 53 00-0561	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	152.92		58.16
22 66 53 00-0562	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	170.00		61.53
22 66 53 00-0563	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	199.33		71.80
22 66 53 00-0564	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	225.84		68.20
22 66 53 00-0565	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	238.92		71.59
22 66 53 00-0566	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser.....	252.01		74.98
22 66 53 00-0567		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees (22 66 53 00-0464)			
22 66 53 00-0568	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	137.57		47.89
22 66 53 00-0569	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	158.94		54.16
22 66 53 00-0570	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	185.57		61.33
22 66 53 00-0571	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	315.29		74.66
22 66 53 00-0572		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0464)			
22 66 53 00-0573	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	64.77		27.28
22 66 53 00-0574	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	75.57		30.46
22 66 53 00-0575	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	82.94		34.05
22 66 53 00-0576	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	104.93		40.71
22 66 53 00-0577		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0464)			
22 66 53 00-0578	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	230.69		54.16
22 66 53 00-0579	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	240.84		60.92
22 66 53 00-0580	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	293.45		68.10
22 66 53 00-0581	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	371.31		81.44
22 66 53 00-0582	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	310.51		58.26
22 66 53 00-0583	EA	2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	418.44		65.02
22 66 53 00-0584	EA	3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	502.27		71.80
22 66 53 00-0585	EA	4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	622.52		85.54

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0586		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0464)		
22 66 53 00-0587	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	405.62	61.85
22 66 53 00-0588	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	622.81	68.41
22 66 53 00-0589	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	421.20	61.53
22 66 53 00-0590	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	622.81	68.41
22 66 53 00-0591		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0464)		
22 66 53 00-0592	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	379.34	61.53
22 66 53 00-0593	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	443.42	68.41
22 66 53 00-0594	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap.....	433.16	61.53
22 66 53 00-0595	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	911.83	68.41
22 66 53 00-0596	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	559.03	68.41
22 66 53 00-0597		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0464)		
22 66 53 00-0598	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	175.73	54.77
22 66 53 00-0599	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	223.86	61.53
22 66 53 00-0600		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0464)		
22 66 53 00-0601	EA	1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	97.41	41.03
22 66 53 00-0602	EA	1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	160.34	44.51
22 66 53 00-0603	EA	2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	128.75	51.28
22 66 53 00-0604		Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0464)		
22 66 53 00-0605	EA	1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	171.27	58.36
22 66 53 00-0606	EA	1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	185.94	61.53
22 66 53 00-0607	EA	1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	205.02	64.92
22 66 53 00-0608	EA	1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	220.99	71.59
22 66 53 00-0609	EA	2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	205.07	65.02
22 66 53 00-0610	EA	2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	216.13	68.41
22 66 53 00-0611	EA	2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	234.07	74.98
22 66 53 00-0612	EA	3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter.....	257.18	71.80
22 66 53 00-0613	EA	4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	315.58	85.54
22 66 53 00-0614		Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0464)		
22 66 53 00-0615	EA	1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	47.84	
22 66 53 00-0616	EA	2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	55.81	
22 66 53 00-0617	EA	3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	59.80	
22 66 53 00-0618	EA	4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	65.78	
22 66 53 00-0619		Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0464)		
22 66 53 00-0620	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet.....	369.92	27.38
22 66 53 00-0621	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper.....	142.10	13.64
22 66 53 00-0622	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	257.71	13.64
22 66 53 00-0623		Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates (22 66 53 00-0464)		
22 66 53 00-0624	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	1,349.25	136.82
22 66 53 00-0625	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	1,650.51	143.69
22 66 53 00-0626	EA	Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	1,060.98	13.64
22 66 83		Chemical-Waste Tanks (22 66)		
22 66 83 16		Chemical-Waste Neutralization Tanks (22 66 83)		
22 66 83 16-0001		Acid Neutralization Tank (22 66 83 16)		
22 66 83 16-0002		Polyethylene Acid Neutralization Tank (22 66 83 16-0001)		
22 66 83 16-0003	EA	5 Gallon Capacity Polyethylene Acid Neutralization Tank	415.76	208.94
22 66 83 16-0004	EA	15 Gallon Capacity Polyethylene Acid Neutralization Tank	704.38	289.73
22 66 83 16-0005	EA	30 Gallon Capacity Polyethylene Acid Neutralization Tank	906.97	417.88
22 66 83 16-0006	EA	55 Gallon Capacity Polyethylene Acid Neutralization Tank	1,175.42	557.16
22 66 83 16-0007	EA	100 Gallon Capacity Polyethylene Acid Neutralization Tank	1,483.62	668.60



		Plumbing	22
Gas and Vacuum Systems For Laboratory And Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 83 16-0008 EA 150 Gallon Capacity Polyethylene Acid Neutralization Tank	1,984.27	835.75
22 66 83 16-0009 EA 200 Gallon Capacity Polyethylene Acid Neutralization Tank	2,336.02	1,044.68
22 66 83 16-0010 EA 275 Gallon Capacity Polyethylene Acid Neutralization Tank	2,974.69	1,253.62
22 66 83 16-0011 EA 350 Gallon Capacity Polyethylene Acid Neutralization Tank	3,423.30	1,504.34
22 66 83 16-0012 Polypropylene Acid Neutralization Tank (22 66 83 16-0001)		
22 66 83 16-0013 EA 5 Gallon Capacity Polypropylene Acid Neutralization Tank	607.81	208.94
22 66 83 16-0014 EA 15 Gallon Capacity Polypropylene Acid Neutralization Tank	1,008.46	289.73
22 66 83 16-0015 EA 30 Gallon Capacity Polypropylene Acid Neutralization Tank	1,586.13	417.88
22 66 83 16-0016 EA 55 Gallon Capacity Polypropylene Acid Neutralization Tank	2,093.31	557.16
22 66 83 16-0017 EA 100 Gallon Capacity Polypropylene Acid Neutralization Tank	2,628.92	668.60
22 66 83 16-0018 EA 150 Gallon Capacity Polypropylene Acid Neutralization Tank	3,019.96	835.75
22 66 83 16-0019 EA 200 Gallon Capacity Polypropylene Acid Neutralization Tank	3,367.14	1,044.68
22 66 83 16-0020 EA 275 Gallon Capacity Polypropylene Acid Neutralization Tank	4,775.15	1,253.62
22 66 83 16-0021 EA 350 Gallon Capacity Polypropylene Acid Neutralization Tank	5,247.77	1,504.34
22 66 83 16-0022 Chemical Dilution Trap (22 66 83 16)		
22 66 83 16-0023 EA 1 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	325.59	69.64
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0024 EA 1-1/2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	334.07	69.64
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0025 EA 2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	342.55	69.64
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0026 EA 5 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	381.63	83.57
Note: 1-1/2" top inlet and side outlet with anti siphon.		

END OF SECTION 22

22	22	Plumbing
	22 60	Gas and Vacuum Systems For Laboratory And Healthcare Facilities
	22 66	Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Operation and Maintenance of HVAC Systems 23 01****Operation and Maintenance of Facility Fuel Systems 23 01 10****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, And Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾**23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)****23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)****23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)**

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	514.38
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	734.41
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	770.15
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	848.10
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,535.46
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	689.77
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	988.89
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,041.39
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,155.75
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,097.22
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	806.22
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,173.04
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	2,588.71
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	4,018.03
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	7,537.02

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)**23 01 20 91 HVAC Piping And Pumps Restoration ^(23 01 20)****23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)**

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	27.86
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	33.43
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	39.00
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	44.57
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	55.71
23 01 20 91-0007	EA	Lock Out/Tag Out Padlock System.....	22.29
23 01 20 91-0008	EA	Lock Out/Tag Out Tag.....	3.32

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	135.59
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23 01 20 91-0011 Freeze Pipe Using Nitrogen ^(23 01 20 91)

Note: For use on any water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 4" Pipe Freezing Using Nitrogen.....	1,300.98
23 01 20 91-0013	EA	>4" To 12" Pipe Freezing Using Nitrogen.....	2,601.96

Note: For each location. Includes freezing on each side of valve or fitting.

23 01 20 91-0014 Water/Chlorine Pipe Disinfection/Flush/Testing ^(23 01 20 91)

Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".

23 01 20 91-0015	LF	Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing.....	1.81
23 01 20 91-0016	LF	>1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing.....	2.47
23 01 20 91-0017	LF	>2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing.....	3.78
23 01 20 91-0018	LF	4", Water/Chlorine Pipe Disinfection/Flush/Testing.....	5.15
23 01 20 91-0019	LF	6", Water/Chlorine Pipe Disinfection/Flush/Testing.....	6.30
23 01 20 91-0020	LF	8", Water/Chlorine Pipe Disinfection/Flush/Testing.....	7.94
23 01 20 91-0021	LF	10", Water/Chlorine Pipe Disinfection/Flush/Testing.....	10.50
23 01 20 91-0022	LF	12", Water/Chlorine Pipe Disinfection/Flush/Testing.....	12.60

23 01 20 91-0023 Shut Down Existing Piping System ^(23 01 20 91)

23 01 20 91-0024	EA	Shut Down Existing Interior Piping System.....	220.09
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Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.

23 01 20 91-0025 Purge Liquid Systems ^(23 01 20 91)

Note: Includes collection and refilling/bleeding of system.

23 01 20 91-0026	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Liquid System.....	366.76
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23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0027 EA >100 To 250', Up To 1-1/2" Diameter Pipe, Purge Liquid System	523.81	
23 01 20 91-0028 EA >250 To 500', Up To 1-1/2" Diameter Pipe, Purge Liquid System	627.62	
23 01 20 91-0029 EA >500 To 1,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System	663.49	
23 01 20 91-0030 EA >1,000 To 2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System	1,266.65	
23 01 20 91-0031 EA Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	488.20	
23 01 20 91-0032 EA >100 To 250', 1-1/2" To 4" Diameter Pipe, Purge Liquid System	696.66	
23 01 20 91-0033 EA >250 To 500', 1-1/2" To 4" Diameter Pipe, Purge Liquid System	829.36	
23 01 20 91-0034 EA >500 To 1,000', 1-1/2" To 4" Diameter Pipe, Purge Liquid System	881.84	
23 01 20 91-0035 EA >1,000 To 2,000', 1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,699.17	
23 01 20 91-0036 EA Up To 100', >4" To 10" Diameter Pipe, Purge Liquid System	601.87	
23 01 20 91-0037 EA >100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System	860.07	
23 01 20 91-0038 EA >250 To 500', >4" To 10" Diameter Pipe, Purge Liquid System	2,253.67	
23 01 20 91-0039 EA >1,000 To 2,000', >4" To 10" Diameter Pipe, Purge Liquid System	3,576.48	
23 01 20 91-0040 Special Cleaning Of Piping Systems (23 01 20 91)		
23 01 20 91-0041 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0040)		
23 01 20 91-0042 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	2.22	
23 01 20 91-0043 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	3.66	
23 01 20 91-0044 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	5.10	
23 01 20 91-0045 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	6.60	
23 01 20 91-0046 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	9.17	
23 01 20 91-0047 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0040)		
23 01 20 91-0048 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	2.34	
23 01 20 91-0049 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	3.81	
23 01 20 91-0050 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	5.31	
23 01 20 91-0051 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	6.91	
23 01 20 91-0052 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	9.59	
23 01 20 91-0053 Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0040)		
23 01 20 91-0054 LF Up To 1", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing	2.37	
23 01 20 91-0055 LF >1" To 2", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing	3.87	
23 01 20 91-0056 LF >2" To 3", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing	5.40	
23 01 20 91-0057 LF >3" To 4", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing	7.04	
23 01 20 91-0058 LF >4" To 6", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing	9.75	
23 01 20 91-0059 Add-A-Valve Emergency Shut Off Device (23 01 20 91)		
23 01 20 91-0060 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD)	219.91	
23 01 20 91-0061 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD)	275.61	
23 01 20 91-0062 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD)	376.23	
23 01 20 91-0063 EA 1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	563.88	
23 01 20 91-0064 EA 1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	692.40	
23 01 20 91-0065 EA 2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,030.08	
23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)		
23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)		
23 01 30 51-0001 Special Cleaning Of Ductwork (23 01 30 51)		
Note: Includes sealing registers, grilles, diffusers as required.		
23 01 30 51-0002 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork	3.55	
For Exhaust Ductwork, Add	0.89	
23 01 30 51-0003 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	4.44	
For Exhaust Ductwork, Add	1.11	
23 01 30 51-0004 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	5.95	
For Exhaust Ductwork, Add	1.49	
23 01 30 51-0005 LF >8 SF Cross Section, Clean Supply/Return Ductwork	8.40	
For Exhaust Ductwork, Add	2.10	
23 01 30 51-0006 SF Clean Duct Dampers	12.00	
23 01 30 51-0007 SF Clean Duct Fire Dampers	23.98	
23 01 30 51-0008 SF Clean Louver	9.60	
23 01 30 51-0009 EA Clean Turning Vane Set	28.79	
23 01 30 51-0010 EA Clean Grille/Diffuser/Register	28.79	
Note: Includes removal and reinstallation.		
23 01 30 51-0011 LF Clean Linear Diffuser	7.19	
Note: Includes removal and reinstallation.		
23 01 30 51-0012 EA Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	87.25	
For Stainless Steel, Add	45.00	
23 01 30 51-0013 EA Clean Variable Air Volume (VAV) Unit	86.35	
23 01 30 51-0014 EA Clean Fan Powered Induction Unit (PIU) Unit	115.13	
23 01 30 51-0015 EA Clean Fan Coil Unit (FCU) Unit	115.13	
23 01 30 51-0016 EA Clean Supply Or Return Fan	230.26	
23 01 30 51-0017 EA Clean Exhaust Fan	201.48	
23 01 30 51-0018 EA Clean Duct Coil	172.69	
23 01 30 51-0019 SF Clean Air Handling Unit Interior Housing, HEPA Vacuum	5.76	
Note: Excluding fan and coils.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Operation and Maintenance of HVAC Systems 23 01****Operation and Maintenance of HVAC Air Distribution 23 01 30****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 30 51-0020	EA		Clean Air Handling Unit Fan	230.26	
23 01 30 51-0021	EA		Clean Air Handling Unit Coil	345.40	
23 01 30 51-0022	SF		Clean Equipment Surfaces, Rust Reform And Prime	2.76	
23 01 30 51-0023	SF		Clean Interior Equipment Surfaces, Rust Reform And Prime	3.33	
23 01 30 51-0024	SF		HEPA Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.51	
23 01 30 51-0025	EA		Cleaning Of Ductwork Minimum Set-up Charge	791.09	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.					
23 01 30 51-0026	SF		Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning.....	0.46	

23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)**23 01 50 61 Central Heating Equipment Repair (23 01 50)**

23 01 50 61-0001	Boiler Repairs (23 01 50 61)				
23 01 50 61-0002	Setup And Maintenance (23 01 50 61-0001)				
23 01 50 61-0003	EA		Set-up Charge For Boiler Fire Side Maintenance	2,325.97	
Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.					
23 01 50 61-0004	EA		Close-up Charge For Boiler Fire Side Maintenance	2,444.48	
Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.					
<i>For Burner Seals, Add</i>				632.60	
<i>Note: Used when burner must be removed from door for maintenance.</i>					
23 01 50 61-0005	EA		Setup Charge For Boiler Water Side Maintenance	3,101.30	
Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.					
23 01 50 61-0006	EA		Up To 100 HP, Hydrostatic Test - Boiler Maintenance	1,550.65	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.					
23 01 50 61-0007	EA		>100 HP, Hydrostatic Test - Boiler Maintenance	3,101.30	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.					
23 01 50 61-0008	EA		Removal And Replacement Of Handhole	96.92	
23 01 50 61-0009	EA		Removal And Replacement Of Manhole	290.75	
23 01 50 61-0010	SF		Sheet Metal Jacket Patch	11.53	

23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)

23 01 50 61-0012	EA		Removal Of Up To 2" Boiler Tube.....	232.59	
23 01 50 61-0013	EA		Removal Of >2" To 3" Boiler Tube.....	290.75	
23 01 50 61-0014	EA		Removal Of >3" To 4" Boiler Tube.....	407.04	
23 01 50 61-0015	LF		Place 1-1/2" Boiler Tube Into Position For Termination	5.92	
23 01 50 61-0016	LF		Place 2" Boiler Tube Into Position For Termination	6.80	
23 01 50 61-0017	LF		Place 2-1/2" Boiler Tube Into Position For Termination	7.69	
23 01 50 61-0018	LF		Place 3" Boiler Tube Into Position For Termination	10.44	
23 01 50 61-0019	LF		Place 3-1/2" Boiler Tube Into Position For Termination	12.06	
23 01 50 61-0020	LF		Place 4" Boiler Tube Into Position For Termination	15.04	
23 01 50 61-0021	EA		1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	29.07	
23 01 50 61-0022	EA		2" Rolled Boiler Tube Termination (2 Per New Tube).....	43.62	
23 01 50 61-0023	EA		2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	58.15	
23 01 50 61-0024	EA		3" Rolled Boiler Tube Termination (2 Per New Tube).....	72.69	
23 01 50 61-0025	EA		3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	87.22	
23 01 50 61-0026	EA		4" Rolled Boiler Tube Termination (2 Per New Tube).....	101.76	
23 01 50 61-0027	EA		1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	87.22	
23 01 50 61-0028	EA		2" Welded Boiler Tube Termination (2 Per New Tube).....	116.30	
23 01 50 61-0029	EA		2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	145.37	
23 01 50 61-0030	EA		3" Welded Boiler Tube Termination (2 Per New Tube).....	174.45	
23 01 50 61-0031	EA		3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	203.52	
23 01 50 61-0032	EA		4" Welded Boiler Tube Termination (2 Per New Tube).....	232.59	
23 01 50 61-0033	EA		Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	235.36	

23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)

23 01 50 61-0035	EA		Replace Front Section Of Weil McLain Model 80 Cast Iron Boiler	2,405.35	
23 01 50 61-0036	EA		Replace Rear Section Of Weil McLain Model 80 Cast Iron Boiler	1,606.92	
23 01 50 61-0037	EA		Replace Inside Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,114.29	
23 01 50 61-0038	EA		Replace Front Section Of Weil McLain Model 88 Cast Iron Boiler	4,340.29	
23 01 50 61-0039	EA		Replace Rear Section Of Weil McLain Model 88 Cast Iron Boiler	3,109.16	
23 01 50 61-0040	EA		Replace Inside Section Of Weil McLain Model 88 Cast Iron Boiler.....	3,783.58	
23 01 50 61-0041	EA		Replace Front Section Of Weil McLain Model 94 Cast Iron Boiler	6,928.51	
23 01 50 61-0042	EA		Replace Rear Section Of Weil McLain Model 94 Cast Iron Boiler	5,248.38	
23 01 50 61-0043	EA		Replace Inside Section Of Weil McLain Model 94 Cast Iron Boiler.....	5,870.76	

23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)

23 01 50 61-0045	SF		Replace Cast Iron Boiler Grates, Prepared From Casting Mold	113.41	
Note: Includes support, linkages and removal of existing.					
23 01 50 61-0046	EA		Prepare Cast Iron Boiler Grate Mold.....	1,544.88	
Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.					

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 50 Operation and Maintenance of Central Heating Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 01 50 61-0047	Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001) Note: Includes mounting plate, mechanical and electrical labor for installation of burners.	
23 01 50 61-0048 EA	700 MBH Max Input Burner With 2" Boiler Connection, Screwed	6,187.50
23 01 50 61-0049 EA	2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed	8,767.40
23 01 50 61-0050 EA	2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed	10,385.37
23 01 50 61-0051 EA	3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged	12,127.54

1,093.70
1,354.08
1,640.44
1,764.56

23 01 50 61-0052	Boiler And Chiller Water Treatment (23 01 50 61) Note: 3 LB chemical per 50 gallon system water.	
23 01 50 61-0053 LB	Boil Out Boiler And System With Caustic Soda	0.85
23 01 50 61-0054 LB	Boil Out Boiler And System With Trisodium Phosphate	1.27
23 01 50 61-0055 GAL	Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required	79.33

23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)**23 01 60 61 Central Cooling Equipment Repair** (23 01 60)

23 01 60 61-0001	Cooling Tower Repairs (23 01 60 61)	
23 01 60 61-0002 EA	Replace 6' Diameter 4 Blade, Cooling Tower Fan Blade	1,850.01
23 01 60 61-0003 EA	Replace 6' Diameter 5 Blade, Cooling Tower Fan Blade	2,165.17
23 01 60 61-0004 EA	Replace 6' Diameter 6 Blade, Cooling Tower Fan Blade	2,478.02
23 01 60 61-0005 EA	Replace 6' Diameter 7 Blade, Cooling Tower Fan Blade	2,911.66
23 01 60 61-0006 EA	Replace 6' Diameter 8 Blade, Cooling Tower Fan Blade	3,200.37
23 01 60 61-0007 EA	Replace 8' Diameter 4 Blade, Cooling Tower Fan Blade	2,055.45
23 01 60 61-0008 EA	Replace 8' Diameter 5 Blade, Cooling Tower Fan Blade	2,276.29
23 01 60 61-0009 EA	Replace 8' Diameter 6 Blade, Cooling Tower Fan Blade	2,655.86
23 01 60 61-0010 EA	Replace 8' Diameter 7 Blade, Cooling Tower Fan Blade	3,012.42
23 01 60 61-0011 EA	Replace 8' Diameter 8 Blade, Cooling Tower Fan Blade	3,308.04
23 01 60 61-0012 EA	Replace Individual Cooling Tower Fan Blade For 6' Diameter Fan	505.63
23 01 60 61-0013 EA	Replace Individual Cooling Tower Fan Blade For 8' Diameter Fan	528.54
23 01 60 61-0014 EA	Replace Individual Cooling Tower Fan Blade For 10' Diameter Fan	567.57
23 01 60 61-0015 EA	Replace Individual Cooling Tower Fan Blade For 12' Diameter Fan	660.64
23 01 60 61-0016 EA	Replace Individual Cooling Tower Fan Blade For 14' Diameter Fan	814.67
23 01 60 61-0017 EA	Replace Individual Cooling Tower Fan Blade For 16' Diameter Fan	1,091.79
23 01 60 61-0018 EA	Replace Individual Cooling Tower Fan Blade For 18' Diameter Fan	1,150.36
23 01 60 61-0019 EA	Replace Individual Cooling Tower Fan Blade For 20' Diameter Fan	1,238.22
23 01 60 61-0020 EA	Replace Counterflow Nozzle (1/2" - 2" NPT Thread)	32.64
23 01 60 61-0021 EA	Replace 6' Polyvinyl Chloride (PVC) Splash Fill	21.95

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)

23 01 60 71-0001	Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)	
23 01 60 71-0002 LB	Recovery Of Refrigerant	8.73
23 01 60 71-0003 LB	Recovery And Recharging Of Refrigerant	16.37

Note: Includes cleaning refrigerant gas prior to recharging.

23 05 Common Work Results For HVAC (23)**23 05 13 Common Motor Requirements For HVAC Equipment** (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001	Premium Efficient, Motors (23 05 13) Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.	
23 05 13 00-0002	Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001) Note: NEMA premium efficiency, open drip proof, three phase AC motors.	
23 05 13 00-0003	Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)	
23 05 13 00-0004 EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	401.48
23 05 13 00-0005 EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	454.61
23 05 13 00-0006 EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	532.99
23 05 13 00-0007 EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	447.64
23 05 13 00-0008 EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	475.51
23 05 13 00-0009 EA	1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	623.56
23 05 13 00-0010 EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	526.02
23 05 13 00-0011 EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	509.48
23 05 13 00-0012 EA	2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	637.50
23 05 13 00-0013 EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	532.99
23 05 13 00-0014 EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	549.54
23 05 13 00-0015 EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	811.68
23 05 13 00-0016 EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	581.76
23 05 13 00-0017 EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	601.79
23 05 13 00-0018 EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,063.37
23 05 13 00-0019 EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	923.15
23 05 13 00-0020 EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	884.83

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Common Motor Requirements For HVAC Equipment 23 05 13****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0021 EA 7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,275.00	
23 05 13 00-0022 EA 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,055.53	
23 05 13 00-0023 EA 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,071.21	
23 05 13 00-0024 EA 10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,659.06	
23 05 13 00-0025 EA 15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,499.69	
23 05 13 00-0026 EA 15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,517.11	
23 05 13 00-0027 EA 15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,237.34	
23 05 13 00-0028 EA 20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,761.83	
23 05 13 00-0029 EA 20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,904.66	
23 05 13 00-0030 EA 20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,723.30	
23 05 13 00-0031 EA 25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,115.42	
23 05 13 00-0032 EA 25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,321.82	
23 05 13 00-0033 EA 25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,289.39	
23 05 13 00-0034 EA 30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,496.00	
23 05 13 00-0035 EA 30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,538.67	
23 05 13 00-0036 EA 30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,431.35	
23 05 13 00-0037 EA 40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,216.23	
23 05 13 00-0038 EA 40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,312.03	
23 05 13 00-0039 EA 50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,502.76	
23 05 13 00-0040 EA 50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,655.17	
23 05 13 00-0041 EA 60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	4,432.01	
23 05 13 00-0042 EA 60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	4,601.84	
23 05 13 00-0043 EA 75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	5,814.13	
23 05 13 00-0044 EA 75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	5,648.66	
23 05 13 00-0045 EA 100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	6,214.74	
23 05 13 00-0046 EA 100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	6,571.81	
23 05 13 00-0047 EA 125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	7,799.78	
23 05 13 00-0048 EA 125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	8,061.92	
23 05 13 00-0049 EA 150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	9,621.70	
23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)		
23 05 13 00-0051 EA 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	4,888.36	
23 05 13 00-0052 EA 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	5,917.77	
23 05 13 00-0053 EA 60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	7,513.25	
23 05 13 00-0054 EA 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	8,364.99	
23 05 13 00-0055 EA 100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	9,207.15	
23 05 13 00-0056 EA 125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	9,943.07	
23 05 13 00-0057 EA 150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	8,955.46	
23 05 13 00-0058 EA 150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	11,710.12	
23 05 13 00-0059 EA 200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	10,903.67	
23 05 13 00-0060 EA 200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	11,191.06	
23 05 13 00-0061 EA 200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	15,393.16	
23 05 13 00-0062 Premium Efficient, TEFC Motors (23 05 13 00-0001)		
Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.		
23 05 13 00-0063 Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)		
23 05 13 00-0064 EA 1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor.....	469.42	
23 05 13 00-0065 EA 1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	517.31	
23 05 13 00-0066 EA 1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	615.73	
23 05 13 00-0067 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	532.12	
23 05 13 00-0068 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	537.35	
23 05 13 00-0069 EA 2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	582.63	
23 05 13 00-0070 EA 2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	557.38	
23 05 13 00-0071 EA 3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	646.21	
23 05 13 00-0072 EA 3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	615.73	
23 05 13 00-0073 EA 3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	988.47	
23 05 13 00-0074 EA 5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	716.75	
23 05 13 00-0075 EA 5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	674.08	
23 05 13 00-0076 EA 5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,116.49	
23 05 13 00-0077 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,073.82	
23 05 13 00-0078 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	971.92	
23 05 13 00-0079 EA 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,088.62	
23 05 13 00-0080 EA 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,097.33	
23 05 13 00-0081 Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)		
23 05 13 00-0082 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	669.72	
23 05 13 00-0083 EA 1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	749.84	
23 05 13 00-0084 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	707.17	
23 05 13 00-0085 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	694.11	
23 05 13 00-0086 EA 1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	892.67	
23 05 13 00-0087 EA 2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	743.75	
23 05 13 00-0088 EA 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	727.20	
23 05 13 00-0089 EA 2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	906.61	
23 05 13 00-0090 EA 3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	802.97	
23 05 13 00-0091 EA 3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	825.61	
23 05 13 00-0092 EA 3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,129.56	
23 05 13 00-0093 EA 5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	988.47	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 13 Common Motor Requirements For HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0094 EA 5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	826.48	
23 05 13 00-0095 EA 5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,310.70	
23 05 13 00-0096 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,144.36	
23 05 13 00-0097 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,102.56	
23 05 13 00-0098 EA 7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,868.95	
23 05 13 00-0099 EA 10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,341.19	
23 05 13 00-0100 EA 10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,236.68	
23 05 13 00-0101 EA 10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,133.70	
23 05 13 00-0102 EA 15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,848.05	
23 05 13 00-0103 EA 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,691.29	
23 05 13 00-0104 EA 15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,846.10	
23 05 13 00-0105 EA 20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,028.33	
23 05 13 00-0106 EA 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,050.97	
23 05 13 00-0107 EA 20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,789.29	
23 05 13 00-0108 EA 25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,646.67	
23 05 13 00-0109 EA 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,682.37	
23 05 13 00-0110 EA 25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,287.44	
23 05 13 00-0111 EA 30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,144.82	
23 05 13 00-0112 EA 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,182.27	
23 05 13 00-0113 EA 30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,952.81	
23 05 13 00-0114 EA 40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,310.96	
23 05 13 00-0115 EA 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,161.16	
23 05 13 00-0116 EA 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,172.07	
23 05 13 00-0117 EA 50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,715.92	
23 05 13 00-0118 EA 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,547.84	
23 05 13 00-0119 EA 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,458.39	
23 05 13 00-0120 EA 60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,624.94	
23 05 13 00-0121 EA 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,543.94	
23 05 13 00-0122 EA 60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,053.01	
23 05 13 00-0123 EA 75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,707.46	
23 05 13 00-0124 EA 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,651.73	
23 05 13 00-0125 EA 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	10,542.24	
23 05 13 00-0126 EA 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,502.39	
23 05 13 00-0127 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,764.12	
23 05 13 00-0128 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,532.04	
23 05 13 00-0129 EA 200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	17,006.94	

23 05 13 00-0130 Premium Efficient, Severe Duty Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131 EA 1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	695.85	
23 05 13 00-0132 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	764.65	
23 05 13 00-0133 EA 1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	844.77	
23 05 13 00-0134 EA 1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,187.04	
23 05 13 00-0135 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	791.65	
23 05 13 00-0136 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	779.46	
23 05 13 00-0137 EA 1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	988.47	
23 05 13 00-0138 EA 1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,477.05	
23 05 13 00-0139 EA 2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	828.23	
23 05 13 00-0140 EA 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	813.42	
23 05 13 00-0141 EA 2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,001.54	
23 05 13 00-0142 EA 2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,862.86	
23 05 13 00-0143 EA 3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	979.76	
23 05 13 00-0144 EA 3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,029.40	
23 05 13 00-0145 EA 3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,445.69	
23 05 13 00-0146 EA 3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,020.49	
23 05 13 00-0147 EA 5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,205.33	
23 05 13 00-0148 EA 5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,047.69	
23 05 13 00-0149 EA 5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,464.85	
23 05 13 00-0150 EA 5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,216.23	
23 05 13 00-0151 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,572.85	
23 05 13 00-0152 EA 7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,319.41	
23 05 13 00-0153 EA 7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,096.26	
23 05 13 00-0154 EA 7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,677.81	
23 05 13 00-0155 EA 10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,674.74	
23 05 13 00-0156 EA 10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,579.81	
23 05 13 00-0157 EA 10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,723.30	
23 05 13 00-0158 EA 10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,290.05	
23 05 13 00-0159 EA 15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,142.41	
23 05 13 00-0160 EA 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,012.65	
23 05 13 00-0161 EA 15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,122.18	
23 05 13 00-0162 EA 15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,727.04	
23 05 13 00-0163 EA 20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,499.48	
23 05 13 00-0164 EA 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,158.96	
23 05 13 00-0165 EA 20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,242.15	
23 05 13 00-0166 EA 20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,529.14	
23 05 13 00-0167 EA 25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,003.73	
23 05 13 00-0168 EA 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,825.20	
23 05 13 00-0169 EA 25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,432.88	
23 05 13 00-0170 EA 30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,662.13	
23 05 13 00-0171 EA 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,354.71	



Heating, Ventilating, And Air-Conditioning (HVAC)

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Common Work Results For HVAC 23 05

Common Motor Requirements For HVAC Equipment 23 05 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0172 EA 30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	5,714.85	
23 05 13 00-0173 EA 40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,031.19	
23 05 13 00-0174 EA 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	4,389.34	
23 05 13 00-0175 EA 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	7,123.09	
23 05 13 00-0176 EA 50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,272.43	
23 05 13 00-0177 EA 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	5,152.24	
23 05 13 00-0178 EA 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	7,587.28	
23 05 13 00-0179 EA 60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,651.73	
23 05 13 00-0180 EA 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	6,905.37	
23 05 13 00-0181 EA 60 HP, 1,800 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	10,363.71	
23 05 13 00-0182 EA 75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,553.98	
23 05 13 00-0183 EA 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	8,068.89	
23 05 13 00-0184 EA 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	12,613.24	
23 05 13 00-0185 EA 100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,752.13	
23 05 13 00-0186 EA 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	10,591.89	
23 05 13 00-0187 EA 100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	13,873.44	
23 05 13 00-0188 EA 125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	12,634.15	
23 05 13 00-0189 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	12,521.80	
23 05 13 00-0190 EA 125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	15,672.72	
23 05 13 00-0191 EA 150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	14,811.40	
23 05 13 00-0192 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	14,669.44	
23 05 13 00-0193 EA 150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	17,670.56	
23 05 13 00-0194 EA 200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	17,539.06	
23 05 13 00-0195 EA 200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	17,647.05	
23 05 13 00-0196 EA 200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	23,146.78	
23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)		
Note: NEMA premium efficiency, explosion proof, three phase AC motors.		
23 05 13 00-0198 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	928.38	
23 05 13 00-0199 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	961.47	
23 05 13 00-0200 EA 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,048.56	
23 05 13 00-0201 EA 3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,295.90	
23 05 13 00-0202 EA 5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,436.98	
23 05 13 00-0203 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	1,980.43	
23 05 13 00-0204 EA 10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	2,021.36	
23 05 13 00-0205 EA 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	2,736.37	
23 05 13 00-0206 EA 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	3,119.56	
23 05 13 00-0207 EA 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	4,098.46	
23 05 13 00-0208 EA 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	4,600.09	
23 05 13 00-0209 EA 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	6,015.31	
23 05 13 00-0210 EA 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	6,774.73	
23 05 13 00-0211 EA 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	9,477.13	
23 05 13 00-0212 EA 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	11,125.75	
23 05 13 00-0213 EA 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	13,552.95	
23 05 13 00-0214 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	17,714.11	
23 05 13 00-0215 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor	20,211.85	
23 05 13 00-0216 Motor Mounting (23 05 13)		
Note: Includes handling and motor installation on mounting base. Excludes mounting base.		
23 05 13 00-0217 EA 1/2 HP Motor Mounting.....	163.14	83.01
23 05 13 00-0218 EA 3/4 HP Motor Mounting.....	187.97	103.76
23 05 13 00-0219 EA 1 HP Motor Mounting.....	201.08	103.76
23 05 13 00-0220 EA 1-1/2 HP Motor Mounting.....	216.17	103.76
23 05 13 00-0221 EA 2 HP Motor Mounting.....	233.69	124.51
23 05 13 00-0222 EA 3 HP Motor Mounting.....	270.20	124.51
23 05 13 00-0223 EA 5 HP Motor Mounting.....	320.24	207.52
23 05 13 00-0224 EA 7-1/2 HP Motor Mounting.....	411.75	207.52
23 05 13 00-0225 EA 10 HP Motor Mounting.....	540.42	363.16
23 05 13 00-0226 EA 15 HP Motor Mounting.....	665.12	363.16
23 05 13 00-0227 EA 20 HP Motor Mounting.....	786.06	518.80
23 05 13 00-0228 EA 25 HP Motor Mounting.....	891.40	518.80
23 05 13 00-0229 EA 30 HP Motor Mounting.....	1,080.82	518.80
23 05 13 00-0230 EA 40 HP Motor Mounting.....	1,217.83	778.19
23 05 13 00-0231 EA 50 HP Motor Mounting.....	1,351.03	778.19
23 05 13 00-0232 EA 75 HP Motor Mounting.....	1,631.44	1,141.35
23 05 13 00-0233 EA 100 HP Motor Mounting.....	1,965.13	1,141.35
23 05 13 00-0234 EA 125 HP Motor Mounting.....	2,401.83	1,556.38
23 05 13 00-0235 EA 150 HP Motor Mounting.....	2,789.23	1,556.38
23 05 13 00-0236 EA 200 HP Motor Mounting.....	3,202.44	1,867.66
23 05 16 Expansion Fittings And Loops For HVAC Piping (23 05)		
23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)		
Note: Includes internal sleeves and external covers.		
23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)		
Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0003 EA 1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	203.14	89.84
For 300 LB Rating, Add 5.84		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 16 Expansion Fittings And Loops For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0004 EA 3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	228.09	101.32
For 300 LB Rating, Add	6.39	
23 05 16 00-0005 EA 1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	265.57	116.15
For 300 LB Rating, Add	8.34	
23 05 16 00-0006 EA 1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	299.00	129.64
For 300 LB Rating, Add	10.01	
23 05 16 00-0007 EA 1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	323.10	139.34
For 300 LB Rating, Add	11.11	
23 05 16 00-0008 EA 2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	374.50	163.96
For 300 LB Rating, Add	11.67	
23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)		
Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0010 EA 1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	699.11	82.08
For 300 LB Rating, Add	133.75	
23 05 16 00-0011 EA 1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	735.48	82.70
For 300 LB Rating, Add	142.50	
23 05 16 00-0012 EA 2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	741.10	85.57
For 300 LB Rating, Add	142.52	
23 05 16 00-0013 EA 2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	798.87	93.27
For 300 LB Rating, Add	153.08	
23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	880.92	109.68
For 300 LB Rating, Add	165.42	
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,149.97	218.24
For 300 LB Rating, Add	178.43	
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,488.17	212.28
For 300 LB Rating, Add	266.04	
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,381.42	235.03
For 300 LB Rating, Add	227.84	
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,717.19	268.58
For 300 LB Rating, Add	295.33	
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,184.84	329.04
For 300 LB Rating, Add	382.02	
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,871.31	398.79
For 300 LB Rating, Add	518.17	
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,528.61	406.13
For 300 LB Rating, Add	679.04	
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,704.72	507.66
For 300 LB Rating, Add	923.08	
23 05 16 00-0023 Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)		
Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	675.87	123.13
For 300 LB Rating, Add	107.43	
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	706.13	124.15
For 300 LB Rating, Add	114.45	
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	714.65	128.26
For 300 LB Rating, Add	114.47	
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	771.83	139.85
For 300 LB Rating, Add	122.95	
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	861.82	164.47
For 300 LB Rating, Add	133.14	
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,227.61	327.50
For 300 LB Rating, Add	143.32	
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,489.93	318.41
For 300 LB Rating, Add	213.68	
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,436.58	352.54
For 300 LB Rating, Add	183.00	
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,753.30	402.84
For 300 LB Rating, Add	237.20	
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,212.48	493.56
For 300 LB Rating, Add	306.84	
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,861.24	598.29
For 300 LB Rating, Add	416.19	
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,484.74	609.19
For 300 LB Rating, Add	566.52	
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,603.77	761.49
For 300 LB Rating, Add	770.12	
23 05 17 Sleeves and Sleeve Seals for HVAC Piping (23 05)		
23 05 17 00-0001 Wall Seals And Sleeves (23 05 17)		
Note: Up to 12" walls. Excludes drilling hole.		
23 05 17 00-0002 Ductile Iron Wall Sleeve (23 05 17 00-0001)		
Note: Includes rubber gasket seal.		
23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	113.87	48.82
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	138.61	57.02
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	168.71	68.41
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	242.73	102.56
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	314.98	136.72

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Sleeves and Sleeve Seals for HVAC Piping 23 05 17****23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 17 00-0008	EA	12" Ductile Iron Wall Sleeve With Rubber Gasket Seal	389.67	170.97
23 05 17 00-0009 Steel Pipe Sleeves (23 05 17 00-0001)				
Note: Includes link seals 12" length.				
23 05 17 00-0010	EA	2" Steel Pipe Sleeve With Link Seals.....	115.33	49.34
23 05 17 00-0011	EA	2-1/2" Steel Pipe Sleeve With Link Seals	134.11	53.48
23 05 17 00-0012	EA	3" Steel Pipe Sleeve With Link Seals.....	152.47	57.63
23 05 17 00-0013	EA	4" Steel Pipe Sleeve With Link Seals.....	185.84	69.14
23 05 17 00-0014	EA	6" Steel Pipe Sleeve With Link Seals.....	253.93	86.34
23 05 17 00-0015	EA	10" Steel Pipe Sleeve With Link Seals.....	424.76	103.65
23 05 17 00-0016	EA	13.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....	488.76	129.57
23 05 17 00-0017	EA	17.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....	666.69	159.42
23 05 17 00-0018	EA	23.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....	903.85	207.30
23 05 17 00-0019	EA	29.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....	971.46	259.13
23 05 19 Meters And Gages For HVAC Piping (23 05)				
23 05 19 00-0001 Thermometers (23 05 19)				
23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers				
(23 05 19 00-0001)				
Note: Various ranges.				
23 05 19 00-0003	EA	2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	103.62	35.67
23 05 19 00-0004	EA	2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	119.86	35.67
23 05 19 00-0005	EA	3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	119.86	35.67
23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers (23 05 19 00-0001)				
Note: Various ranges.				
23 05 19 00-0007	EA	7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	136.10	35.67
23 05 19 00-0008	EA	9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	136.10	35.67
23 05 19 00-0009	EA	12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	170.06	35.67
23 05 19 00-0010	EA	7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	140.53	35.67
23 05 19 00-0011	EA	9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	147.91	35.67
23 05 19 00-0012	EA	12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	174.49	35.67
23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers (23 05 19 00-0001)				
Note: Various ranges. Socket connection for thermowell.				
23 05 19 00-0014	EA	7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	136.10	35.67
23 05 19 00-0015	EA	9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	136.10	35.67
23 05 19 00-0016	EA	12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	170.06	35.67
23 05 19 00-0017	EA	7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	155.30	35.67
23 05 19 00-0018	EA	9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	170.06	35.67
23 05 19 00-0019	EA	12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	173.83	35.67
23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells (23 05 19 00-0001)				
23 05 19 00-0021	EA	4" Long, 1" NPT, 304 Stainless Steel Thermowell	160.88	66.88
23 05 19 00-0022	EA	8" Long, 1" NPT, 304 Stainless Steel Thermowell	160.82	66.88
23 05 19 00-0023 Pressure Gauges (23 05 19)				
23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)				
23 05 19 00-0025	EA	2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	37.32	13.93
23 05 19 00-0026	EA	4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	46.03	13.93
23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)				
23 05 19 00-0028	EA	3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	100.32	13.93
23 05 19 00-0029	EA	4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	100.32	13.93
23 05 19 00-0030	EA	6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	124.93	13.93
23 05 19 00-0031	EA	8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	269.84	13.93
23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)				
Note: Liquid filled.				
23 05 19 00-0033	EA	2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	86.60	13.93
23 05 19 00-0034	EA	4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	180.52	13.93
23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges (23 05 19 00-0023)				
23 05 19 00-0036	EA	4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	292.16	13.93
23 05 19 00-0037	EA	6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	292.16	13.93
23 05 19 00-0038	EA	8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	292.16	13.93
23 05 19 00-0039 Gauge Accessories (23 05 19 00-0023)				

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 19 Meters And Gages For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....	55.60	11.15
23 05 19 00-0041 EA 1/4" Snubber Valve.....	41.74	11.15
23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock.....	27.53	16.72
23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock.....	25.60	16.72
23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon.....	27.12	16.72
23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple.....	6.15	5.57
23 05 19 00-0046 EA 1/4" Steel Thread-O-Let.....	66.91	27.87
23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union.....	39.71	11.15
23 05 19 00-0048 EA 1/4", Black Steel Coupling.....	22.94	11.15
23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug.....	13.53	6.68
23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap.....	13.74	6.68
23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	6.60	
23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe.....	6.57	
23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	6.59	
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve.....	65.66	
23 05 19 00-0055 Valve Lock Covers (23 05 19)		
23 05 19 00-0056 EA Valve Lock Cover.....	57.35	17.06
23 05 19 00-0057 Venturi Flowmeters (23 05 19)		
23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter.....	174.05	75.79
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter.....	197.47	90.95
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter.....	218.35	101.10
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter.....	245.95	113.69
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter.....	288.87	129.97
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter.....	383.60	162.60
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter.....	673.63	155.47
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	126.93	
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter.....	892.97	186.57
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	181.94	
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter.....	1,155.50	233.22
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	241.17	
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter.....	1,419.77	310.96
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	279.25	
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter.....	1,967.28	373.14
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	427.35	
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter.....	3,024.26	466.43
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	731.99	
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter.....	4,371.40	602.04
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,108.56	
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter.....	6,206.52	903.07
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,540.14	
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter.....	8,837.10	1,003.40
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	2,390.60	
23 05 19 00-0075 Turbine Flowmeter (23 05 19)		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter.....	441.34	83.60
23 05 19 00-0077 Sight Flow Indicator (23 05 19)		
23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	101.69	16.22
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	106.34	17.07
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	114.58	17.94

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Meters And Gages For HVAC Piping 23 05 19****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	131.78	24.18
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	157.82	29.30
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	182.26	37.10
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	250.02	42.90
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	279.69	50.70
23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0088 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	128.10	16.22
23 05 19 00-0089 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	132.16	17.07
23 05 19 00-0090 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	142.16	17.94
23 05 19 00-0091 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	155.25	24.18
23 05 19 00-0092 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	167.79	29.30
23 05 19 00-0093 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	186.37	37.10
23 05 19 00-0094 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	329.83	42.90
23 05 19 00-0095 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	357.14	50.70
23 05 19 00-0096 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0097 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	179.15	16.22
23 05 19 00-0098 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	189.08	17.07
23 05 19 00-0099 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	204.95	17.94
23 05 19 00-0100 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	226.84	24.18
23 05 19 00-0101 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	261.68	29.30
23 05 19 00-0102 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	282.02	37.10
23 05 19 00-0103 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	541.08	42.90
23 05 19 00-0104 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	574.26	50.70
23 05 19 00-0105 Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0106 EA 1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	126.34	16.22
23 05 19 00-0107 EA 3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	131.57	17.07
23 05 19 00-0108 EA 1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	139.23	17.94
23 05 19 00-0109 EA 3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	154.66	24.18
23 05 19 00-0110 EA 1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	167.21	29.30
23 05 19 00-0111 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	186.37	37.10
23 05 19 00-0112 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	326.31	42.90
23 05 19 00-0113 EA 2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	352.45	50.70
23 05 19 00-0114 Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0115 EA 1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	177.98	16.22
23 05 19 00-0116 EA 3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	191.42	17.07
23 05 19 00-0117 EA 1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	208.47	17.94
23 05 19 00-0118 EA 3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	226.84	24.18
23 05 19 00-0119 EA 1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	261.68	29.30
23 05 19 00-0120 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	284.36	37.10
23 05 19 00-0121 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	541.08	42.90
23 05 19 00-0122 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	574.26	50.70
23 05 19 00-0123 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0124 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	266.38	29.30
23 05 19 00-0125 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	303.14	37.10
23 05 19 00-0126 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	345.09	42.90

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 19 Meters And Gages For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0127 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	390.01	50.70
23 05 19 00-0128 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0129 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	594.06	117.01
23 05 19 00-0130 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	673.06	148.54
23 05 19 00-0131 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	967.27	174.36
23 05 19 00-0132 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,475.64	292.30
23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	2,350.31	375.93
23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0135 EA 1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	452.52	83.57
23 05 19 00-0136 EA 1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	533.06	97.50
23 05 19 00-0137 EA 1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	582.03	117.01
23 05 19 00-0138 EA 2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	730.27	148.54
23 05 19 00-0139 EA 3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,037.39	174.36
23 05 19 00-0140 EA 4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,551.63	292.30
23 05 19 00-0141 Water Flow Switches (23 05 19)		
23 05 19 00-0142 EA Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	184.74	32.84
23 05 19 00-0143 EA Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	190.05	32.84
23 05 19 00-0144 EA Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	234.89	32.84
23 05 19 00-0145 EA Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	241.68	32.84
23 05 19 00-0146 EA Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	196.84	32.84
23 05 19 00-0147 EA Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	203.03	32.84
23 05 19 00-0148 EA Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	246.99	32.84
23 05 19 00-0149 EA Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	253.18	32.84
23 05 19 00-0150 EA Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	452.58	32.84
23 05 19 00-0151 EA Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	458.58	32.84
23 05 19 00-0152 EA Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	515.58	32.84
23 05 19 00-0153 EA Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	523.83	32.84
23 05 19 00-0154 EA Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	466.83	32.84
23 05 19 00-0155 EA Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	475.08	32.84
23 05 19 00-0156 EA Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	529.83	32.84
23 05 19 00-0157 EA Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	538.83	32.84
23 05 23 General-Duty Valves For HVAC Piping (23 05)		
23 05 23 00-0001 Gate Valves (23 05 23)		
23 05 23 00-0002 125 LB Threaded, Brazed Or Soldered Bronze Gate Valves (23 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure. Class 125 (threaded).		
23 05 23 00-0003 EA 1/4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve	44.05	11.14
For Work In Restricted Working Space, Add	9.74	
For 150 LB Rating, Add	1.16	
For 200 LB Rating, Add	1.74	
For 250 LB Rating, Add	2.90	
For 300 LB Rating, Add	4.06	
23 05 23 00-0004 EA 3/8" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve	45.76	11.14
For Work In Restricted Working Space, Add	10.25	
For 150 LB Rating, Add	1.16	
For 200 LB Rating, Add	1.74	
For 250 LB Rating, Add	2.90	
For 300 LB Rating, Add	4.06	
23 05 23 00-0005 EA 1/2" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve	47.55	11.14
For Work In Restricted Working Space, Add	10.79	
For 150 LB Rating, Add	1.16	
For 200 LB Rating, Add	1.74	
For 250 LB Rating, Add	2.90	
For 300 LB Rating, Add	4.06	
23 05 23 00-0006 EA 3/4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve	62.29	12.26
For Work In Restricted Working Space, Add	14.54	
For 150 LB Rating, Add	1.38	
For 200 LB Rating, Add	2.08	
For 250 LB Rating, Add	3.46	
For 300 LB Rating, Add	4.84	
23 05 23 00-0007 EA 1" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve	79.56	13.93
For Work In Restricted Working Space, Add	17.60	
For 150 LB Rating, Add	2.09	
For 200 LB Rating, Add	3.14	
For 250 LB Rating, Add	5.23	
For 300 LB Rating, Add	7.32	
23 05 23 00-0008 EA 1-1/4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve	102.48	14.82
For Work In Restricted Working Space, Add	22.29	
For 150 LB Rating, Add	2.82	
For 200 LB Rating, Add	4.23	
For 250 LB Rating, Add	7.05	
For 300 LB Rating, Add	9.87	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0009	EA	1-1/2"	125 LB Threaded, Brazed Or Soldered Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i>	121.25 25.72 3.55 5.33 8.88 12.44	17.16
23 05 23 00-0010	EA	2"	125 LB Threaded, Brazed Or Soldered Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i>	149.84 30.39 4.85 7.28 12.14 16.99	20.28
23 05 23 00-0011	EA	2-1/2"	125 LB Threaded, Brazed Or Soldered Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	275.19 41.03 13.84 20.77 34.61 48.45 62.30	27.38
23 05 23 00-0012	EA	3"	125 LB Threaded, Brazed Or Soldered Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	323.28 47.34 16.55 24.82 41.37 57.92 74.47	31.80
23 05 23 00-0013	EA	4"	125 LB Threaded, Brazed Or Soldered Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	573.72 53.84 39.42 59.14 98.56 137.98 177.41	35.90
23 05 23 00-0014			Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0015	EA	1-1/2"	Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	116.04 25.72 6.06 10.61 10.61	17.16
23 05 23 00-0016	EA	2"	Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	217.09 30.39 23.16 40.53 40.53	20.28
23 05 23 00-0017	EA	2-1/2"	Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	310.89 41.03 34.83 60.95 60.95	27.38
23 05 23 00-0018	EA	3"	Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	386.28 47.34 45.70 79.97 79.97	31.80
23 05 23 00-0019	EA	4"	125 LB Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	794.54 53.84 123.01 215.27 215.27	35.90
23 05 23 00-0020			Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0021	EA	1-1/2"	Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, ASTM A182, Add</i> <i>For Chain Operated Type, Add</i>	307.28 43.99 46.59 80.33 233.97 80.33	117.01
23 05 23 00-0022	EA	2"	Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, ASTM A182, Add</i> <i>For Chain Operated Type, Add</i>	353.75 55.72 48.73 84.02 260.89 84.02	148.54

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0023 EA 2-1/2" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	388.07	148.71
For Work In Restricted Working Space, Add	55.94	
For 150 LB Rating, Add	58.46	
For 250 LB Rating, Add	100.80	
For 300 LB Rating, ASTM A182, Add	294.84	
For Chain Operated Type, Add	100.80	
23 05 23 00-0024 EA 3" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	470.21	174.36
For Work In Restricted Working Space, Add	65.47	
For 150 LB Rating, Add	73.08	
For 250 LB Rating, Add	126.00	
For 300 LB Rating, ASTM A182, Add	361.10	
For Chain Operated Type, Add	126.00	
23 05 23 00-0025 EA 4" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	702.30	292.30
For Work In Restricted Working Space, Add	109.89	
For 150 LB Rating, Add	97.44	
For 250 LB Rating, Add	168.01	
For 300 LB Rating, ASTM A182, Add	519.16	
For Chain Operated Type, Add	168.01	
23 05 23 00-0026 EA 5" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	861.20	338.33
For Work In Restricted Working Space, Add	127.33	
For 150 LB Rating, Add	126.66	
For 250 LB Rating, Add	218.39	
For 300 LB Rating, ASTM A182, Add	648.99	
For Chain Operated Type, Add	218.39	
23 05 23 00-0027 EA 6" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,007.41	375.93
For Work In Restricted Working Space, Add	140.97	
For 150 LB Rating, Add	155.88	
For 250 LB Rating, Add	268.75	
For 300 LB Rating, ASTM A182, Add	772.46	
For Chain Operated Type, Add	268.75	
23 05 23 00-0028 EA 8" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,427.41	432.32
For Work In Restricted Working Space, Add	161.11	
For 150 LB Rating, Add	258.21	
For 250 LB Rating, Add	445.19	
For 300 LB Rating, ASTM A182, Add	1,158.90	
For Chain Operated Type, Add	445.19	
23 05 23 00-0029 EA 10" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,833.76	526.30
For Work In Restricted Working Space, Add	197.36	
For 150 LB Rating, Add	341.01	
For 250 LB Rating, Add	587.95	
For 300 LB Rating, ASTM A182, Add	1,504.83	
For Chain Operated Type, Add	587.95	
23 05 23 00-0030 EA 12" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,477.35	639.08
For Work In Restricted Working Space, Add	239.23	
For 150 LB Rating, Add	487.18	
For 250 LB Rating, Add	839.97	
For 300 LB Rating, ASTM A182, Add	2,078.64	
For Chain Operated Type, Add	839.97	
23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0032 EA 1-1/2" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	253.69	17.16
For Work In Restricted Working Space, Add	25.72	
For 175 LB Rating, Add	83.99	
For 250 LB Rating, Add	125.98	
23 05 23 00-0033 EA 2" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	318.44	20.28
For Work In Restricted Working Space, Add	30.39	
For 175 LB Rating, Add	108.57	
For 250 LB Rating, Add	162.86	
23 05 23 00-0034 EA 2-1/2" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	381.60	27.38
For Work In Restricted Working Space, Add	41.03	
For 175 LB Rating, Add	122.43	
For 250 LB Rating, Add	183.64	
23 05 23 00-0035 EA 3" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	427.96	31.80
For Work In Restricted Working Space, Add	47.34	
For 175 LB Rating, Add	135.09	
For 250 LB Rating, Add	202.63	
23 05 23 00-0036 EA 4" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	552.54	35.90
For Work In Restricted Working Space, Add	53.84	
For 175 LB Rating, Add	186.53	
For 250 LB Rating, Add	279.80	
23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0038 EA 1-1/2" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	378.23	117.01
For Work In Restricted Working Space, Add	43.99	
For 150 LB Rating, Add	34.74	
For 175 LB Rating, Add	71.80	
For 250 LB Rating, Add	150.55	
For Chain Operated Type, Add	115.81	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Common Work Results For HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0039	EA		2" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	424.21	148.54
			For Work In Restricted Working Space, Add	55.72	
			For 150 LB Rating, Add	35.77	
			For 175 LB Rating, Add	73.93	
			For 250 LB Rating, Add	155.02	
			For Chain Operated Type, Add	119.25	
23 05 23 00-0040	EA		2-1/2" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	432.75	148.71
			For Work In Restricted Working Space, Add	55.94	
			For 150 LB Rating, Add	36.94	
			For 175 LB Rating, Add	76.35	
			For 250 LB Rating, Add	160.08	
			For Chain Operated Type, Add	123.14	
23 05 23 00-0041	EA		3" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	489.19	174.36
			For Work In Restricted Working Space, Add	65.47	
			For 150 LB Rating, Add	40.65	
			For 175 LB Rating, Add	84.00	
			For 250 LB Rating, Add	176.13	
			For Chain Operated Type, Add	135.49	
23 05 23 00-0042	EA		4" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	694.90	292.30
			For Work In Restricted Working Space, Add	109.89	
			For 150 LB Rating, Add	49.29	
			For 175 LB Rating, Add	101.87	
			For 250 LB Rating, Add	213.60	
			For Chain Operated Type, Add	164.31	
23 05 23 00-0043	EA		5" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	882.92	338.33
			For Work In Restricted Working Space, Add	127.33	
			For 150 LB Rating, Add	68.77	
			For 175 LB Rating, Add	142.13	
			For 250 LB Rating, Add	298.02	
			For Chain Operated Type, Add	229.25	
23 05 23 00-0044	EA		6" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	993.52	375.93
			For Work In Restricted Working Space, Add	140.97	
			For 150 LB Rating, Add	78.54	
			For 175 LB Rating, Add	162.32	
			For 250 LB Rating, Add	340.35	
			For Chain Operated Type, Add	261.81	
23 05 23 00-0045	EA		8" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,422.60	432.32
			For Work In Restricted Working Space, Add	161.11	
			For 150 LB Rating, Add	132.84	
			For 175 LB Rating, Add	274.53	
			For 250 LB Rating, Add	575.62	
			For Chain Operated Type, Add	442.79	
23 05 23 00-0046	EA		10" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,020.76	526.30
			For Work In Restricted Working Space, Add	197.36	
			For 150 LB Rating, Add	204.43	
			For 175 LB Rating, Add	422.50	
			For 250 LB Rating, Add	885.88	
			For Chain Operated Type, Add	681.45	
23 05 23 00-0047	EA		12" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,524.76	639.08
			For Work In Restricted Working Space, Add	239.23	
			For 150 LB Rating, Add	259.10	
			For 175 LB Rating, Add	535.48	
			For 250 LB Rating, Add	1,122.77	
			For Chain Operated Type, Add	863.67	
23 05 23 00-0048	EA		14" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	4,673.67	742.58
			For Work In Restricted Working Space, Add	297.04	
			For 150 LB Rating, Add	552.53	
			For 175 LB Rating, Add	1,141.90	
			For 250 LB Rating, Add	2,394.31	
23 05 23 00-0049	EA		16" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	5,988.62	871.30
			For Work In Restricted Working Space, Add	326.74	
			For 150 LB Rating, Add	734.92	
			For 175 LB Rating, Add	1,518.84	
			For 250 LB Rating, Add	3,184.67	
23 05 23 00-0050	EA		18" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	8,069.51	970.31
			For Work In Restricted Working Space, Add	363.04	
			For 150 LB Rating, Add	1,028.91	
			For 175 LB Rating, Add	2,126.40	
			For 250 LB Rating, Add	4,458.59	
23 05 23 00-0051	EA		20" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	10,179.25	1,089.13
			For Work In Restricted Working Space, Add	408.42	
			For 150 LB Rating, Add	1,322.68	
			For 175 LB Rating, Add	2,733.53	
			For 250 LB Rating, Add	5,731.60	
23 05 23 00-0052	EA		24" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	13,839.99	1,336.66
			For Work In Restricted Working Space, Add	502.68	
			For 150 LB Rating, Add	1,824.66	
			For 175 LB Rating, Add	3,770.96	
			For 250 LB Rating, Add	7,906.86	
23 05 23 00-0053	EA		30" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	28,572.17	2,178.25
			For Work In Restricted Working Space, Add	816.85	
			For 150 LB Rating, Add	3,877.40	
			For 175 LB Rating, Add	8,013.30	
			For 250 LB Rating, Add	16,802.08	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0054 EA 36" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	36,474.31	2,970.35
For Work In Restricted Working Space, Add	1,089.13	
For 150 LB Rating, Add	4,926.58	
For 175 LB Rating, Add	10,181.60	
For 250 LB Rating, Add	21,348.52	
23 05 23 00-0055 EA 42" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	43,763.50	4,356.51
For Work In Restricted Working Space, Add	1,633.69	
For 150 LB Rating, Add	5,747.68	
For 175 LB Rating, Add	11,878.54	
For 250 LB Rating, Add	24,906.61	
23 05 23 00-0056 EA 48" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	52,761.44	5,445.64
For Work In Restricted Working Space, Add	2,042.11	
For 150 LB Rating, Add	6,893.16	
For 175 LB Rating, Add	14,245.86	
For 250 LB Rating, Add	29,870.36	
23 05 23 00-0057 EA 54" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	63,321.92	6,534.76
For Work In Restricted Working Space, Add	2,452.99	
For 150 LB Rating, Add	8,271.79	
For 175 LB Rating, Add	17,095.04	
For 250 LB Rating, Add	35,844.43	
23 05 23 00-0058 Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves (23 05 23 00-0001)		
Note: 800 psig at 850 degrees F.		
23 05 23 00-0059 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	80.59	17.94
For Work In Restricted Working Space, Add	9.74	
23 05 23 00-0060 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	84.09	17.94
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0061 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	103.05	24.18
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0062 EA 1" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	124.99	29.30
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0063 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	181.32	37.10
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0064 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	213.11	42.90
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0065 EA 2" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	263.91	50.70
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0066 Ball Valves (23 05 23)		
See CSI section 23 23 13 00-0000 for refrigeration valves.		
23 05 23 00-0067 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0066)		
Note: 125 LB WSP.		
23 05 23 00-0068 EA 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	41.33	11.14
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	2.42	
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0069 EA 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	56.72	12.26
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	3.72	
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0070 EA 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	69.82	13.93
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	5.03	
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0071 EA 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	93.04	14.82
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	8.44	
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0072 EA 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	109.67	17.16
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	10.78	
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0073 EA 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	131.30	20.28
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	13.50	
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0074 EA 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	278.33	27.38
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	63.71	
For Work In Restricted Working Space, Add	41.03	
23 05 23 00-0075 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	321.15	31.80
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	73.51	
For Work In Restricted Working Space, Add	47.34	
23 05 23 00-0076 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	402.19	35.90
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	100.22	
For Work In Restricted Working Space, Add	53.84	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Common Work Results For HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0077 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0066)		
23 05 23 00-0078 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	42.75	11.14
For Work In Restricted Working Space, Add	9.74	
23 05 23 00-0079 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	47.13	11.14
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0080 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	64.61	12.26
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0081 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	80.39	13.93
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0082 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	111.44	14.82
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0083 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	132.78	17.16
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0084 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve	166.10	20.28
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0085 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0066)		
23 05 23 00-0086 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	977.68	292.30
For Work In Restricted Working Space, Add	109.89	
23 05 23 00-0087 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	1,595.57	375.93
For Work In Restricted Working Space, Add	140.97	
23 05 23 00-0088 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	3,186.60	432.32
For Work In Restricted Working Space, Add	161.11	
23 05 23 00-0089 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves (23 05 23 00-0066)		
23 05 23 00-0090 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	39.00	11.14
For True Union Socket Or Thread Type, Add	3.11	
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0091 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	51.96	12.26
For True Union Socket Or Thread Type, Add	3.95	
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0092 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	63.54	13.93
For True Union Socket Or Thread Type, Add	5.04	
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0093 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	80.72	14.82
For True Union Socket Or Thread Type, Add	6.47	
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0094 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	96.90	17.16
For True Union Socket Or Thread Type, Add	8.97	
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0095 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	115.55	20.28
For True Union Socket Or Thread Type, Add	11.02	
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0096 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	167.42	27.38
For True Union Socket Or Thread Type, Add	19.45	
For Work In Restricted Working Space, Add	41.03	
23 05 23 00-0097 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	209.94	31.80
For True Union Socket Or Thread Type, Add	29.14	
For Work In Restricted Working Space, Add	47.34	
23 05 23 00-0098 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	279.19	35.90
For True Union Socket Or Thread Type, Add	49.31	
For Work In Restricted Working Space, Add	53.84	
23 05 23 00-0099 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0066)		
23 05 23 00-0100 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	64.85	16.71
For Full Port, Add	7.28	
For Work In Restricted Working Space, Add	14.60	
23 05 23 00-0101 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	67.41	16.71
For Full Port, Add	7.28	
For Work In Restricted Working Space, Add	15.37	
23 05 23 00-0102 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	70.10	16.71
For Full Port, Add	7.28	
For Work In Restricted Working Space, Add	16.18	
23 05 23 00-0103 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	89.83	18.39
For Full Port, Add	7.72	
For Work In Restricted Working Space, Add	21.80	
23 05 23 00-0104 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	113.38	20.89
For Full Port, Add	11.43	
For Work In Restricted Working Space, Add	26.39	
23 05 23 00-0105 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	146.21	22.23
For Full Port, Add	15.65	
For Work In Restricted Working Space, Add	33.43	
23 05 23 00-0106 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	174.83	25.74
For Full Port, Add	20.81	
For Work In Restricted Working Space, Add	38.57	
23 05 23 00-0107 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	227.21	30.42
For Full Port, Add	33.87	
For Work In Restricted Working Space, Add	45.59	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0108 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve For Full Port, Add For Work In Restricted Working Space, Add	387.77 82.19 61.54	41.08
23 05 23 00-0109 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... For Full Port, Add For Work In Restricted Working Space, Add	526.72 130.51 71.01	47.69
23 05 23 00-0110 Globe Valves (23 05 23)		
23 05 23 00-0111 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0110)		
23 05 23 00-0112 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For Work In Restricted Working Space, Add	49.16 4.10 5.02 5.94 7.27 10.79	11.14
23 05 23 00-0113 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For Work In Restricted Working Space, Add	45.66 4.10 5.02 5.94 7.27 9.74	11.14
23 05 23 00-0114 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For Work In Restricted Working Space, Add	53.87 6.11 7.49 8.87 10.84 10.25	11.14
23 05 23 00-0115 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	55.66 6.11 7.49 8.87 10.84 36.06 10.79	11.14
23 05 23 00-0116 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	69.82 6.62 8.12 9.62 11.75 42.89 14.54	11.70
23 05 23 00-0117 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	87.53 8.95 10.97 13.00 15.88 55.23 17.60	11.70
23 05 23 00-0118 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	124.17 15.46 18.95 22.45 27.43 84.58 22.29	14.82
23 05 23 00-0119 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	157.00 22.10 27.09 32.08 39.20 112.70 25.72	17.16
23 05 23 00-0120 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	185.10 25.98 31.84 37.71 46.09 132.70 30.39	20.28
23 05 23 00-0121 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For Work In Restricted Working Space, Add	221.24 26.19 32.11 38.02 46.47 41.03	27.38
23 05 23 00-0122 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB For 150 LB Rating, Add For 200 LB Rating, Add For 250 LB Rating, Add For 300 LB Rating, Add For Work In Restricted Working Space, Add	347.08 58.68 71.93 85.18 104.11 47.34	31.80

23 05 23 00-0123 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0110)

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0124 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	248.53	20.28
For 150 LB Rating, Add	45.64	
For 200 LB Rating, Add	55.95	
For 250 LB Rating, Add	66.25	
For 300 LB Rating, Add	80.98	
For Chain Operated Type, Add	122.94	
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0125 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	315.22	27.38
For 150 LB Rating, Add	55.33	
For 200 LB Rating, Add	67.82	
For 250 LB Rating, Add	80.31	
For 300 LB Rating, Add	98.16	
For Chain Operated Type, Add	149.02	
For Work In Restricted Working Space, Add	41.03	
23 05 23 00-0126 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	371.95	31.80
For 150 LB Rating, Add	66.39	
For 200 LB Rating, Add	81.38	
For 250 LB Rating, Add	96.37	
For 300 LB Rating, Add	117.79	
For Chain Operated Type, Add	178.82	
For Work In Restricted Working Space, Add	47.34	
23 05 23 00-0127 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	464.97	35.90
For 150 LB Rating, Add	88.52	
For 200 LB Rating, Add	108.51	
For 250 LB Rating, Add	128.49	
For 300 LB Rating, Add	157.05	
For Chain Operated Type, Add	238.43	
For Work In Restricted Working Space, Add	53.83	
23 05 23 00-0128 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0110)		
23 05 23 00-0129 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	323.36	148.54
For 150 LB Rating, Add	42.67	
For 250 LB Rating, Add	61.94	
For Chain Operated Type, Add	68.82	
For Work In Restricted Working Space, Add	55.72	
23 05 23 00-0130 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	354.27	148.71
For 150 LB Rating, Add	52.02	
For 250 LB Rating, Add	75.51	
For Chain Operated Type, Add	83.90	
For Work In Restricted Working Space, Add	55.94	
23 05 23 00-0131 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	419.57	174.36
For 150 LB Rating, Add	62.42	
For 250 LB Rating, Add	90.61	
For Chain Operated Type, Add	100.68	
For Work In Restricted Working Space, Add	65.47	
23 05 23 00-0132 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	588.98	292.30
For 150 LB Rating, Add	83.23	
For 250 LB Rating, Add	120.81	
For Chain Operated Type, Add	134.24	
For Work In Restricted Working Space, Add	96.15	
23 05 23 00-0133 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	797.77	338.33
For 150 LB Rating, Add	115.74	
For 250 LB Rating, Add	168.00	
For Chain Operated Type, Add	186.67	
For Work In Restricted Working Space, Add	127.33	
23 05 23 00-0134 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	941.83	375.93
For 150 LB Rating, Add	146.30	
For 250 LB Rating, Add	212.36	
For Chain Operated Type, Add	235.96	
For Work In Restricted Working Space, Add	140.97	
23 05 23 00-0135 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,262.74	432.32
For 150 LB Rating, Add	224.97	
For 250 LB Rating, Add	326.57	
For Chain Operated Type, Add	362.86	
For Work In Restricted Working Space, Add	161.11	
23 05 23 00-0136 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,763.22	526.30
For 150 LB Rating, Add	342.66	
For 250 LB Rating, Add	497.41	
For Chain Operated Type, Add	552.68	
For Work In Restricted Working Space, Add	197.36	
23 05 23 00-0137 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	2,889.04	639.08
For 150 LB Rating, Add	648.40	
For 250 LB Rating, Add	941.23	
For Chain Operated Type, Add	1,045.81	
For Work In Restricted Working Space, Add	239.23	
23 05 23 00-0138 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0110)		
23 05 23 00-0139 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	45.95	11.14
For 150 LB Rating, Add	3.10	
For 200 LB Rating, Add	3.80	
For 300 LB Rating, Add	5.50	
For Work In Restricted Working Space, Add	10.79	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0140 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	42.45	11.14
For 150 LB Rating, Add	3.10	
For 200 LB Rating, Add	3.80	
For 300 LB Rating, Add	5.50	
For Work In Restricted Working Space, Add	9.74	
23 05 23 00-0141 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	44.16	11.14
For 150 LB Rating, Add	3.10	
For 200 LB Rating, Add	3.80	
For 300 LB Rating, Add	5.50	
For Work In Restricted Working Space, Add	10.25	
23 05 23 00-0142 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	46.62	11.14
For 150 LB Rating, Add	3.31	
For 200 LB Rating, Add	4.05	
For 300 LB Rating, Add	5.87	
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0143 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	63.25	11.70
For 150 LB Rating, Add	4.59	
For 200 LB Rating, Add	5.62	
For 300 LB Rating, Add	8.14	
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0144 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	78.07	11.70
For 150 LB Rating, Add	6.02	
For 200 LB Rating, Add	7.38	
For 300 LB Rating, Add	10.68	
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0145 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	103.13	14.82
For 150 LB Rating, Add	8.94	
For 200 LB Rating, Add	10.96	
For 300 LB Rating, Add	15.86	
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0146 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	119.35	17.16
For 150 LB Rating, Add	10.43	
For 200 LB Rating, Add	12.78	
For 300 LB Rating, Add	18.50	
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0147 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	151.95	20.28
For 150 LB Rating, Add	15.70	
For 200 LB Rating, Add	19.25	
For 300 LB Rating, Add	27.86	
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0148 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	239.95	29.76
For 150 LB Rating, Add	28.32	
For 200 LB Rating, Add	34.72	
For 300 LB Rating, Add	50.25	
For Work In Restricted Working Space, Add	44.57	
23 05 23 00-0149 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	326.16	34.54
For 150 LB Rating, Add	47.97	
For 200 LB Rating, Add	58.80	
For 300 LB Rating, Add	85.10	
For Work In Restricted Working Space, Add	51.43	
23 05 23 00-0150 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0110)		
23 05 23 00-0151 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve	539.86	148.54
For 250 LB Rating, Add	212.48	
For Chain Operated Type, Add	138.11	
For Work In Restricted Working Space, Add	55.72	
23 05 23 00-0152 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve	605.30	148.71
For 250 LB Rating, Add	251.30	
For Chain Operated Type, Add	163.34	
For Work In Restricted Working Space, Add	55.94	
23 05 23 00-0153 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve	711.77	174.36
For 250 LB Rating, Add	296.13	
For Chain Operated Type, Add	192.48	
For Work In Restricted Working Space, Add	65.47	
23 05 23 00-0154 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,071.23	292.30
For 250 LB Rating, Add	422.96	
For Chain Operated Type, Add	274.93	
For Work In Restricted Working Space, Add	109.89	
23 05 23 00-0155 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,687.81	338.33
For 250 LB Rating, Add	758.03	
For Chain Operated Type, Add	492.72	
For Work In Restricted Working Space, Add	127.33	
23 05 23 00-0156 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve	1,733.29	375.93
For 250 LB Rating, Add	758.03	
For Chain Operated Type, Add	492.72	
For Work In Restricted Working Space, Add	140.97	
23 05 23 00-0157 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve	3,009.71	432.32
For 250 LB Rating, Add	1,483.61	
For Chain Operated Type, Add	964.35	
For Work In Restricted Working Space, Add	161.11	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0158 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0110) Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0159 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	96.44	18.05
For Work In Restricted Working Space, Add	9.74	
23 05 23 00-0160 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	99.94	18.05
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0161 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	121.24	24.29
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0162 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	149.06	29.30
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0163 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	229.27	37.10
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0164 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	272.99	42.90
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0165 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	342.58	50.70
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0166 Triple Duty Valves (23 05 23) Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
23 05 23 00-0167 Straight Pattern, Triple Duty Valves (23 05 23 00-0166) Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0168 EA 1" Threaded, Straight Pattern, Triple Duty Valve.....	221.12	11.70
23 05 23 00-0169 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....	258.19	14.82
23 05 23 00-0170 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....	281.92	17.16
23 05 23 00-0171 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	685.45	30.42
23 05 23 00-0172 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve.....	802.76	148.71
23 05 23 00-0173 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	883.57	174.36
23 05 23 00-0174 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	1,782.84	292.30
23 05 23 00-0175 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	2,095.47	338.33
23 05 23 00-0176 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	2,751.10	375.93
23 05 23 00-0177 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	3,633.81	432.32
23 05 23 00-0178 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	5,772.16	526.30
23 05 23 00-0179 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0166) Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0180 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	670.12	30.42
23 05 23 00-0181 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	784.36	148.71
23 05 23 00-0182 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	868.24	174.36
23 05 23 00-0183 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	1,742.98	292.30
23 05 23 00-0184 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,046.41	338.33
23 05 23 00-0185 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	2,291.19	375.93
23 05 23 00-0186 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	3,416.12	432.32
23 05 23 00-0187 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	4,548.78	526.30
23 05 23 00-0188 Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0166) Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0189 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	816.11	174.36
23 05 23 00-0190 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,605.00	292.30
23 05 23 00-0191 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,890.04	338.33
23 05 23 00-0192 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,472.09	375.93
23 05 23 00-0193 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,253.61	432.32
23 05 23 00-0194 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	5,137.47	526.30
23 05 23 00-0195 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	7,678.04	639.08
23 05 23 00-0196 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	9,323.74	704.86
23 05 23 00-0197 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	11,640.13	827.04
23 05 23 00-0198 Grooved Straight Pattern, Triple Duty Valves (23 05 23 00-0166) Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0199 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	715.22	27.53
23 05 23 00-0200 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	852.86	32.82
23 05 23 00-0201 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	991.56	35.59
23 05 23 00-0202 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	1,637.00	38.36
23 05 23 00-0203 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	1,895.76	47.93
23 05 23 00-0204 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	2,526.60	61.46
23 05 23 00-0205 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	3,434.08	78.00
23 05 23 00-0206 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	5,405.30	87.40
23 05 23 00-0207 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	8,569.24	106.58
23 05 23 00-0208 Plug Valves (23 05 23)		
23 05 23 00-0209 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0208) Note: Includes wrench.		
23 05 23 00-0210 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	129.54	11.14
23 05 23 00-0211 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	142.04	12.26
23 05 23 00-0212 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	178.03	13.93

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0213 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	215.64	14.82
23 05 23 00-0214 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	239.48	17.16
23 05 23 00-0215 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	282.76	20.28
23 05 23 00-0216 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	414.67	27.38
23 05 23 00-0217 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	501.61	31.80
23 05 23 00-0218 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0208)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0219 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	332.71	148.54
23 05 23 00-0220 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	380.09	148.71
23 05 23 00-0221 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	461.51	174.36
23 05 23 00-0222 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	695.74	292.30
23 05 23 00-0223 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	1,348.79	375.93
23 05 23 00-0224 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	2,120.43	432.32
23 05 23 00-0225 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	3,296.53	526.30
23 05 23 00-0226 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	4,802.55	639.08
23 05 23 00-0227 Plug Valves, Forged Steel, Screwed (23 05 23 00-0208)		
23 05 23 00-0228 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	436.29	11.14
23 05 23 00-0229 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	519.13	12.26
23 05 23 00-0230 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	589.25	13.93
23 05 23 00-0231 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	709.39	14.82
23 05 23 00-0232 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	825.61	17.16
23 05 23 00-0233 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,079.14	20.28
23 05 23 00-0234 Plug Valves, Eccentric, Cast Iron Flanged (23 05 23 00-0208)		
23 05 23 00-0235 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	760.44	292.30
23 05 23 00-0236 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	1,100.30	338.33
23 05 23 00-0237 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	1,479.13	432.32
23 05 23 00-0238 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	2,052.27	526.30
23 05 23 00-0239 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	2,627.32	639.08
23 05 23 00-0240 Foot Valves (23 05 23)		
23 05 23 00-0241 Single Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0240)		
23 05 23 00-0242 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction	69.58	27.87
23 05 23 00-0243 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	78.24	31.21
23 05 23 00-0244 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	94.35	35.67
23 05 23 00-0245 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction	116.77	40.13
23 05 23 00-0246 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	235.44	65.76
23 05 23 00-0247 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction	295.87	80.26
23 05 23 00-0248 Double Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0240)		
23 05 23 00-0249 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	69.58	27.87
23 05 23 00-0250 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	113.82	31.21
23 05 23 00-0251 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	114.88	35.67
23 05 23 00-0252 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	146.87	40.13
23 05 23 00-0253 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction	272.75	65.76
23 05 23 00-0254 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	359.19	79.14
23 05 23 00-0255 Float Valves (23 05 23)		
23 05 23 00-0256 Float Valve Assembly For Maintaining Liquid Level In Tanks (23 05 23 00-0255)		
23 05 23 00-0257 Single Seat, Bronze Construction (23 05 23 00-0256)		
Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
23 05 23 00-0258 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	111.14	23.41
23 05 23 00-0259 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	128.65	27.86
23 05 23 00-0260 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	158.84	30.09
23 05 23 00-0261 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve	250.44	37.89
23 05 23 00-0262 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve	261.58	43.46
23 05 23 00-0263 Double Seat, Bronze Construction (23 05 23 00-0256)		
Note: For hot or cold water or oil to open tanks.		
23 05 23 00-0264 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	471.33	23.41
23 05 23 00-0265 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	480.24	27.86
23 05 23 00-0266 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	551.13	30.09
23 05 23 00-0267 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	614.97	37.89
23 05 23 00-0268 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	703.30	43.46
23 05 23 00-0269 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	915.74	51.26
23 05 23 00-0270 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve.....	1,076.17	68.71
23 05 23 00-0271 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	1,290.67	78.98

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0272	Float Valve Single Seated Balanced For Air Oil Or Water (23 05 23 00-0255) Note: Includes arm, ball and bracket.	
23 05 23 00-0273	Brass Body Threaded Ends (23 05 23 00-0272)	
23 05 23 00-0274	EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	140.09 30.20
23 05 23 00-0275	EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	157.39 33.55
23 05 23 00-0276	EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	186.99 37.10
23 05 23 00-0277	EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	300.01 59.96
23 05 23 00-0278	EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	324.07 68.31
23 05 23 00-0279	EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	378.55 84.69
23 05 23 00-0280	Cast Iron Body Flanged (23 05 23 00-0272)	
23 05 23 00-0281	EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	2,948.72 180.51
23 05 23 00-0282	EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	3,546.17 205.12
23 05 23 00-0283	Float Operated Valves (23 05 23 00-0255)	
23 05 23 00-0284	For Condensate Receivers Tanks And Vessels (23 05 23 00-0283) Note: Cast iron body, self-contained, float in-line mount.	
23 05 23 00-0285	EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	375.70 52.38
23 05 23 00-0286	For Condensate Receivers Tanks And Vessels (23 05 23 00-0283) Note: Cast iron body, external float tank mount, flanged.	
23 05 23 00-0287	EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	510.86 97.43
23 05 23 00-0288	Needle Valves (23 05 23)	
23 05 23 00-0289	Bronze Needle Valve (23 05 23 00-0288) Note: For heating and cooling applications.	
23 05 23 00-0290	EA 1/4" Needle Valve, Bronze.....	62.86 11.14
23 05 23 00-0291	EA 3/8" Needle Valve, Bronze.....	68.86 11.14
23 05 23 00-0292	EA 1/2" Needle Valve, Bronze.....	74.45 11.14
23 05 23 00-0293	EA 3/4" Needle Valve, Bronze.....	109.25 12.26
23 05 23 00-0294	EA 1" Needle Valve, Bronze.....	157.84 13.93
23 05 23 00-0295	Eccentric Valves With Taps (23 05 23)	
23 05 23 00-0296	Screwed Eccentric Valves With Taps (23 05 23 00-0295)	
23 05 23 00-0297	EA 1/2" Diameter Eccentric Valves With Taps, Screwed.....	126.75 11.14
23 05 23 00-0298	EA 3/4" Diameter Eccentric Valves With Taps, Screwed.....	140.64 12.26
23 05 23 00-0299	EA 1" Diameter Eccentric Valves With Taps, Screwed.....	175.99 13.93
23 05 23 00-0300	EA 1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	215.37 14.82
23 05 23 00-0301	EA 1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	237.98 17.16
23 05 23 00-0302	EA 2" Diameter Eccentric Valves With Taps, Screwed.....	280.10 20.28
23 05 23 00-0303	EA 2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	413.33 27.38
23 05 23 00-0304	EA 3" Diameter Eccentric Valves With Taps, Screwed.....	497.23 31.80
23 05 23 00-0305	Flanged Eccentric Valves With Taps (23 05 23 00-0295)	
23 05 23 00-0306	EA 2-1/2" Diameter Eccentric Valves With Taps, Flanged.....	514.74 148.71
23 05 23 00-0307	EA 3" Diameter Eccentric Valves With Taps, Flanged.....	609.35 174.36
23 05 23 00-0308	EA 4" Diameter Eccentric Valves With Taps, Flanged.....	862.18 292.30
23 05 23 00-0309	EA 5" Diameter Eccentric Valves With Taps, Flanged.....	1,122.87 338.33
23 05 23 00-0310	EA 6" Diameter Eccentric Valves With Taps, Flanged.....	1,377.88 375.93
23 05 23 00-0311	EA 8" Diameter Eccentric Valves With Taps, Flanged.....	2,178.36 432.32
23 05 23 00-0312	EA 10" Diameter Eccentric Valves With Taps, Flanged.....	2,997.64 526.30
23 05 23 00-0313	EA 12" Diameter Eccentric Valves With Taps, Flanged.....	4,953.14 639.08
23 05 23 00-0314	Check Valves (23 05 23)	
23 05 23 00-0315	Iron Body Wafer Type Check Valve (23 05 23 00-0314)	
23 05 23 00-0316	Single Disk Type (23 05 23 00-0315)	
23 05 23 00-0317	EA 2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	303.03 148.58
	For 150 LB Rating, Add	24.62
	For 200 LB Rating, Add	29.31
	For 300 LB Rating, Add	35.18
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	89.92
23 05 23 00-0318	EA 2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	340.17 148.77
	For 150 LB Rating, Add	32.26
	For 200 LB Rating, Add	38.41
	For 300 LB Rating, Add	46.09
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	106.44

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0319 EA 3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	412.49	174.43
For 150 LB Rating, Add	40.78	
For 200 LB Rating, Add	48.55	
For 300 LB Rating, Add	58.25	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	131.04	
23 05 23 00-0320 EA 4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	629.43	292.41
For 150 LB Rating, Add	55.23	
For 200 LB Rating, Add	65.75	
For 300 LB Rating, Add	78.90	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	191.64	
23 05 23 00-0321 EA 6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	924.96	410.41
For 150 LB Rating, Add	86.51	
For 200 LB Rating, Add	102.99	
For 300 LB Rating, Add	123.59	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	287.98	
23 05 23 00-0322 EA 8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,220.01	471.97
For 150 LB Rating, Add	132.76	
For 200 LB Rating, Add	158.05	
For 300 LB Rating, Add	189.65	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	402.05	
23 05 23 00-0323 EA 10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,733.20	574.57
For 150 LB Rating, Add	212.04	
For 200 LB Rating, Add	252.43	
For 300 LB Rating, Add	302.92	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	599.07	
23 05 23 00-0324 Twin Disc Type (23 05 23 00-0315)		
23 05 23 00-0325 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	317.44	148.58
For 150 LB Rating, Add	27.65	
For 200 LB Rating, Add	32.92	
For 300 LB Rating, Add	39.50	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	96.40	
23 05 23 00-0326 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	344.56	148.77
For 150 LB Rating, Add	33.18	
For 200 LB Rating, Add	39.50	
For 300 LB Rating, Add	47.40	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	108.41	
23 05 23 00-0327 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	402.67	174.43
For 150 LB Rating, Add	38.72	
For 200 LB Rating, Add	46.09	
For 300 LB Rating, Add	55.31	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	126.62	
23 05 23 00-0328 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	600.56	292.41
For 150 LB Rating, Add	49.17	
For 200 LB Rating, Add	58.53	
For 300 LB Rating, Add	70.24	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	178.64	
23 05 23 00-0329 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	890.55	410.41
For 150 LB Rating, Add	79.28	
For 200 LB Rating, Add	94.39	
For 300 LB Rating, Add	113.26	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	272.50	
23 05 23 00-0330 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,162.87	471.97
For 150 LB Rating, Add	121.08	
For 200 LB Rating, Add	144.14	
For 300 LB Rating, Add	172.97	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	376.72	
23 05 23 00-0331 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,631.62	51.30
For 150 LB Rating, Add	191.75	
For 200 LB Rating, Add	228.28	
For 300 LB Rating, Add	273.93	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	554.60	
23 05 23 00-0332 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,092.87	697.70
For 150 LB Rating, Add	256.91	
For 200 LB Rating, Add	305.84	
For 300 LB Rating, Add	367.01	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	724.41	
23 05 23 00-0333 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,533.02	784.02
For 150 LB Rating, Add	522.41	
For 200 LB Rating, Add	621.92	
For 300 LB Rating, Add	746.30	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,328.52	
23 05 23 00-0334 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	4,661.89	919.91
For 150 LB Rating, Add	737.52	
For 200 LB Rating, Add	878.00	
For 300 LB Rating, Add	1,053.60	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,810.38	
23 05 23 00-0335 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	6,046.05	1,024.45
For 150 LB Rating, Add	1,001.36	
For 200 LB Rating, Add	1,192.10	
For 300 LB Rating, Add	1,430.52	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	2,401.31	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0336 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB For 150 LB Rating, Add For 200 LB Rating, Add For 300 LB Rating, Add For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	7,139.78 1,197.51 1,425.60 1,710.72 2,853.56	1,149.89
23 05 23 00-0337 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB For 150 LB Rating, Add For 200 LB Rating, Add For 300 LB Rating, Add For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	9,261.84 1,573.48 1,873.20 2,247.83 3,725.56	1,411.23
23 05 23 00-0338 Lift Check Valves (23 05 23 00-0314)		
23 05 23 00-0339 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0338) Note: Watts #600 series.		
23 05 23 00-0340 EA 3/8" Lift Check Valve, Bronze, Threaded.....	65.16	11.14
23 05 23 00-0341 EA 1/2" Lift Check Valve, Bronze, Threaded.....	68.82	11.14
23 05 23 00-0342 EA 3/4" Lift Check Valve, Bronze, Threaded.....	89.39	11.70
23 05 23 00-0343 EA 1" Lift Check Valve, Bronze, Threaded.....	114.53	11.70
23 05 23 00-0344 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	154.38	14.82
23 05 23 00-0345 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	184.89	17.16
23 05 23 00-0346 EA 2" Lift Check Valve, Bronze, Threaded.....	250.41	20.28
23 05 23 00-0347 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0338) Note: Crane 366E.		
23 05 23 00-0348 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	293.43	11.14
23 05 23 00-0349 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	359.43	11.70
23 05 23 00-0350 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	627.12	11.70
23 05 23 00-0351 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	833.36	14.82
23 05 23 00-0352 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	908.34	17.16
23 05 23 00-0353 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,161.32	20.28
23 05 23 00-0354 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0338) Note: Mueller 105MAP.		
23 05 23 00-0355 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	512.12	148.54
23 05 23 00-0356 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	695.10	148.71
23 05 23 00-0357 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	766.65	174.36
23 05 23 00-0358 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,103.29	292.30
23 05 23 00-0359 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,372.50	338.33
23 05 23 00-0360 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,657.59	375.93
23 05 23 00-0361 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,710.84	432.32
23 05 23 00-0362 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	3,394.81	526.30
23 05 23 00-0363 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	5,350.91	639.08
23 05 23 00-0364 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	7,194.07	742.58
23 05 23 00-0365 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	7,967.80	871.30
23 05 23 00-0366 Bronze Body Swing Check Valves (23 05 23 00-0314)		
23 05 23 00-0367 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0366)		
23 05 23 00-0368 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	52.22 6.35 10.79	11.14
23 05 23 00-0369 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	48.72 6.35 9.74	11.14
23 05 23 00-0370 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	50.43 6.35 10.25	11.14
23 05 23 00-0371 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	52.86 6.59 10.79	11.14
23 05 23 00-0372 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	68.94 7.99 14.54	11.70
23 05 23 00-0373 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	86.47 10.85 17.60	11.70
23 05 23 00-0374 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	113.35 15.23 22.29	14.82
23 05 23 00-0375 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	140.41 21.33 25.72	17.16
23 05 23 00-0376 EA 2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	171.62 27.42 30.39	20.28
23 05 23 00-0377 EA 2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	298.40 63.04 41.03	27.38

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0378 EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	387.69 89.66 47.34	31.80
23 05 23 00-0379 EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB For 300 LB Rating, Add For Work In Restricted Working Space, Add	439.64 101.46 53.84	35.90
23 05 23 00-0380 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0314)		
23 05 23 00-0381 EA 1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	250.14 98.61 188.51 31.54	83.57
23 05 23 00-0382 EA 1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	280.89 108.64 207.69 36.34	97.50
23 05 23 00-0383 EA 1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	319.89 117.82 225.25 43.99	117.01
23 05 23 00-0384 EA 2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	400.92 146.34 279.76 55.72	148.54
23 05 23 00-0385 EA 2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	437.62 170.78 326.50 55.94	148.71
23 05 23 00-0386 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	491.15 185.59 354.81 65.47	174.36
23 05 23 00-0387 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	788.08 286.82 548.33 109.89	292.30
23 05 23 00-0388 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	1,043.71 421.11 805.06 127.33	338.33
23 05 23 00-0389 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	1,187.93 488.25 933.43 140.97	375.93
23 05 23 00-0390 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	2,329.67 1,219.00 2,330.43 161.11	432.32
23 05 23 00-0391 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	3,098.04 1,659.32 3,172.22 197.36	526.30
23 05 23 00-0392 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	4,602.74 2,587.62 4,946.92 239.23	639.08
23 05 23 00-0393 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	5,298.26 2,929.54 5,600.58 297.04	742.58
23 05 23 00-0394 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	7,363.91 4,266.85 8,157.21 326.74	871.30
23 05 23 00-0395 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	11,072.33 6,706.29 12,820.85 363.04	970.31
23 05 23 00-0396 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	15,087.93 9,334.03 17,844.48 408.42	1,089.13
23 05 23 00-0397 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves For 150 LB Rating, Add For 250 LB Rating, Add For Work In Restricted Working Space, Add	20,891.85 13,067.06 24,981.14 502.68	1,336.66
23 05 23 00-0398 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston Check, Swing Check Valves (23 05 23 00-0314) Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0399 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve For Work In Restricted Working Space, Add	92.31 10.79	11.14

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0400 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve.....	112.44	12.26
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0401 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve.....	133.79	13.93
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0402 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve.....	197.18	14.82
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0403 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve.....	232.48	17.16
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0404 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve.....	305.59	20.28
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0405 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections (23 05 23 00-0314)		
23 05 23 00-0406 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	48.44	11.14
For Work In Restricted Working Space, Add	10.79	
23 05 23 00-0407 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	60.94	12.26
For Work In Restricted Working Space, Add	14.54	
23 05 23 00-0408 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	71.63	13.93
For Work In Restricted Working Space, Add	17.60	
23 05 23 00-0409 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	87.81	14.82
For Work In Restricted Working Space, Add	22.29	
23 05 23 00-0410 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	100.02	17.16
For Work In Restricted Working Space, Add	25.72	
23 05 23 00-0411 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	123.53	20.28
For Work In Restricted Working Space, Add	30.39	
23 05 23 00-0412 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	168.40	27.38
For Work In Restricted Working Space, Add	41.03	
23 05 23 00-0413 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	198.86	31.80
For Work In Restricted Working Space, Add	47.34	
23 05 23 00-0414 Diaphragm Valves (23 05 23)		
23 05 23 00-0415 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0414)		
23 05 23 00-0416 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	144.83	33.34
23 05 23 00-0417 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	178.80	36.92
23 05 23 00-0418 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	200.50	45.64
23 05 23 00-0419 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	313.53	68.20
23 05 23 00-0420 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	471.64	82.05
23 05 23 00-0421 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0414)		
23 05 23 00-0422 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	178.26	50.15
23 05 23 00-0423 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	204.27	55.71
23 05 23 00-0424 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	248.47	83.57
23 05 23 00-0425 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	369.58	117.01
23 05 23 00-0426 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	563.40	148.54
23 05 23 00-0427 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	693.28	148.71
23 05 23 00-0428 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	854.14	174.36
23 05 23 00-0429 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,239.25	292.30
23 05 23 00-0430 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	2,425.67	375.93
23 05 23 00-0431 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	3,638.38	432.32
23 05 23 00-0432 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0414)		
23 05 23 00-0433 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	104.11	33.34
23 05 23 00-0434 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	128.43	36.92
23 05 23 00-0435 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	150.13	45.64
23 05 23 00-0436 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	244.93	68.20

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0437	EA	2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		311.94	82.05
23 05 23 00-0438		Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0414)			
23 05 23 00-0439	EA	1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		135.01	50.15
23 05 23 00-0440	EA	3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		150.81	55.71
23 05 23 00-0441	EA	1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		195.00	83.57
23 05 23 00-0442	EA	1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		296.78	117.01
23 05 23 00-0443	EA	2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		393.90	148.54
23 05 23 00-0444	EA	2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		457.89	148.71
23 05 23 00-0445	EA	3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		552.68	174.36
23 05 23 00-0446	EA	4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		883.90	292.30
23 05 23 00-0447	EA	6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		1,629.54	375.93
23 05 23 00-0448	EA	8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....		2,375.66	432.32
23 05 23 00-0449		125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0414)			
23 05 23 00-0450	EA	1" Diaphragm Valve, Cast Iron, 125 LB, Flanged		232.36	83.57
23 05 23 00-0451	EA	1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged		363.67	117.01
23 05 23 00-0452	EA	2" Diaphragm Valve, Cast Iron, 125 LB, Flanged		483.22	148.54
23 05 23 00-0453	EA	2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged		650.49	148.71
23 05 23 00-0454	EA	3" Diaphragm Valve, Cast Iron, 125 LB, Flanged		725.27	174.36
23 05 23 00-0455	EA	4" Diaphragm Valve, Cast Iron, 125 LB, Flanged		1,150.26	292.30
23 05 23 00-0456	EA	6" Diaphragm Valve, Cast Iron, 125 LB, Flanged		2,172.55	375.93
23 05 23 00-0457	EA	8" Diaphragm Valve, Cast Iron, 125 LB, Flanged		4,245.41	432.32
23 05 23 00-0458		Solenoid Valves (23 05 23)			
23 05 23 00-0459		Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure (23 05 23 00-0458)			
23 05 23 00-0460	EA	1/4" Solenoid Valve, Bronze, 150 PSI, Water		70.67	11.14
23 05 23 00-0461	EA	1/2" Solenoid Valve, Bronze, 150 PSI, Water		81.02	11.14
23 05 23 00-0462	EA	3/4" Solenoid Valve, Bronze, 150 PSI, Water		105.13	12.26
23 05 23 00-0463	EA	1" Solenoid Valve, Bronze, 150 PSI, Water		147.42	13.93
23 05 23 00-0464	EA	1-1/2" Solenoid Valve, Bronze, 150 PSI, Water		249.60	17.16
23 05 23 00-0465	EA	2" Solenoid Valve, Bronze, 150 PSI, Water		371.49	20.28
23 05 23 00-0466	EA	2-1/2" Solenoid Valve, Bronze, 150 PSI, Water		505.25	27.38
23 05 23 00-0467	EA	3" Solenoid Valve, Bronze, 150 PSI, Water		709.11	31.80
23 05 23 00-0468		Flow Control Valves And Meters (23 05 23)			
23 05 23 00-0469		Conditioned Water Balancing Valves (23 05 23 00-0468)			
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.					
23 05 23 00-0470	EA	1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		107.21	56.85
23 05 23 00-0471	EA	3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		134.07	75.79
23 05 23 00-0472	EA	1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		189.13	86.61
23 05 23 00-0473	EA	1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		243.06	107.01
23 05 23 00-0474	EA	1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		274.42	113.69
23 05 23 00-0475	EA	2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		354.15	129.97
23 05 23 00-0476	EA	2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		660.40	226.14
23 05 23 00-0477	EA	3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		884.02	258.45
23 05 23 00-0478	EA	3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		1,203.72	301.65
23 05 23 00-0479	EA	4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		1,358.28	312.43
23 05 23 00-0480	EA	6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		1,512.01	323.20
23 05 23 00-0481	EA	8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		2,457.08	369.37
23 05 23 00-0482	EA	10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG		4,085.49	410.41
23 05 23 00-0483		Read Out Meters (23 05 23 00-0469)			
Note: For use with conditioned portable water balancing valves.					
23 05 23 00-0484	EA	0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve		502.11	
23 05 23 00-0485	EA	0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve		679.50	
23 05 23 00-0486	EA	0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve		679.50	
23 05 23 00-0487	EA	0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve		679.50	
23 05 23 00-0488		Balancing Valves (23 05 23)			



Heating, Ventilating, And Air-Conditioning (HVAC)

23

Common Work Results For HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

23

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 05 23 00-0489		Balancing Valves With Lever (23 05 23 00-0488) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
23 05 23 00-0490	EA	1/2" Threaded Balancing Valve With Lever	164.54		35.11
23 05 23 00-0491	EA	3/4" Threaded Balancing Valve With Lever	190.20		46.26
23 05 23 00-0492	EA	1" Threaded Balancing Valve With Lever	205.86		52.95
23 05 23 00-0493	EA	1-1/4" Threaded Balancing Valve With Lever	239.33		65.76
23 05 23 00-0494	EA	1-1/2" Threaded Balancing Valve With Lever	256.12		69.66
23 05 23 00-0495	EA	2" Threaded Balancing Valve With Lever	285.75		79.70
23 05 23 00-0496	EA	2-1/2" Flanged Balancing Valve With Lever.....	527.88		141.08
23 05 23 00-0497	EA	3" Flanged Balancing Valve With Lever.....	653.56		188.28
23 05 23 00-0498	EA	4" Flanged Balancing Valve With Lever.....	838.74		218.03
23 05 23 00-0499	EA	5" Flanged Balancing Valve With Lever.....	1,193.00		256.51
23 05 23 00-0500	EA	6" Flanged Balancing Valve With Lever.....	1,265.34		292.93
23 05 23 00-0501	EA	8" Flanged Balancing Valve With Lever.....	1,600.62		328.33
23 05 23 00-0502		Balancing Valves With Nut (23 05 23 00-0488) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
23 05 23 00-0503	EA	4" Flanged Balancing Valve With Nut	807.11		218.03
23 05 23 00-0504	EA	5" Flanged Balancing Valve With Nut	1,152.86		256.51
23 05 23 00-0505	EA	6" Flanged Balancing Valve With Nut	1,225.20		292.93
23 05 23 00-0506	EA	8" Flanged Balancing Valve With Nut	1,544.66		328.33
23 05 23 00-0507		Balancing Valves With Hand Wheel (23 05 23 00-0488) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
23 05 23 00-0508	EA	4" Flanged Balancing Valve With Hand Wheel	1,044.32		218.03
23 05 23 00-0509	EA	5" Flanged Balancing Valve With Hand Wheel	1,474.61		292.93
23 05 23 00-0510	EA	6" Flanged Balancing Valve With Hand Wheel	1,402.23		256.51
23 05 23 00-0511	EA	8" Flanged Balancing Valve With Hand Wheel	1,745.87		292.93
23 05 23 00-0512	EA	10" Flanged Balancing Valve With Hand Wheel	2,534.95		358.80
23 05 23 00-0513	EA	12" Flanged Balancing Valve With Hand Wheel	3,266.35		443.54
23 05 23 00-0514	EA	14" Flanged Balancing Valve With Hand Wheel	4,232.91		459.75
23 05 23 00-0515		Balancing Valves With Chain Wheel (23 05 23 00-0488) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
23 05 23 00-0516	EA	4" Flanged Balancing Valve With Chain Wheel	1,173.26		218.03
23 05 23 00-0517	EA	5" Flanged Balancing Valve With Chain Wheel	1,604.77		292.93
23 05 23 00-0518	EA	6" Flanged Balancing Valve With Chain Wheel	1,532.39		256.51
23 05 23 00-0519	EA	8" Flanged Balancing Valve With Chain Wheel	1,874.82		292.93
23 05 23 00-0520	EA	10" Flanged Balancing Valve With Chain Wheel	2,665.47		358.60
23 05 23 00-0521	EA	12" Flanged Balancing Valve With Chain Wheel	3,425.97		443.23
23 05 23 00-0522	EA	14" Flanged Balancing Valve With Chain Wheel	4,390.16		459.96
23 05 23 00-0523		Calibrated Balancing Valves (23 05 23 00-0488) Note: Bell & Gossett CB Series.			
23 05 23 00-0524	EA	1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S)	85.02		11.15
23 05 23 00-0525	EA	3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S)	102.42		12.26
23 05 23 00-0526	EA	1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S)	124.90		13.93
23 05 23 00-0527	EA	1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S).....	166.30		14.83
23 05 23 00-0528	EA	1" Threaded Calibrated Balancing Valve (CB-1).....	131.64		13.93
23 05 23 00-0529	EA	1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4)	177.95		14.83
23 05 23 00-0530	EA	1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2)	206.55		17.17
23 05 23 00-0531	EA	2" Threaded Calibrated Balancing Valve (CB-2).....	273.03		20.29
23 05 23 00-0532	EA	2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2)	491.99		29.77
23 05 23 00-0533	EA	3" Threaded Calibrated Balancing Valve (CB-3).....	677.34		34.55
23 05 23 00-0534	EA	2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F).....	656.46		161.62
23 05 23 00-0535	EA	3" Flanged Calibrated Balancing Valve (CB-3F).....	927.04		189.49
23 05 23 00-0536	EA	4" Flanged Calibrated Balancing Valve (CB-4F).....	1,412.27		317.68
23 05 23 00-0537	EA	5" Flanged Calibrated Balancing Valve (CB-5F).....	2,106.96		401.28
23 05 23 00-0538	EA	6" Flanged Calibrated Balancing Valve (CB-6F).....	2,718.93		445.86
23 05 23 00-0539	EA	8" Flanged Calibrated Balancing Valve (CB-8F).....	4,699.53		512.74
23 05 23 00-0540	EA	10" Flanged Calibrated Balancing Valve (CB-10F).....	6,483.23		585.40
23 05 23 00-0541	EA	12" Flanged Calibrated Balancing Valve (CB-12F).....	13,316.43		710.84
23 05 23 00-0542	EA	4" Grooved Calibrated Balancing Valve (CB-4G)	1,560.35		38.36
23 05 23 00-0543	EA	5" Grooved Calibrated Balancing Valve (CB-5G)	1,800.71		47.93
23 05 23 00-0544	EA	6" Grooved Calibrated Balancing Valve (CB-6G)	2,391.69		61.46
23 05 23 00-0545	EA	8" Grooved Calibrated Balancing Valve (CB-8G)	4,452.03		78.00
23 05 23 00-0546	EA	10" Grooved Calibrated Balancing Valve (CB-10G).....	5,973.55		87.40
23 05 23 00-0547	EA	12" Grooved Calibrated Balancing Valve (CB-12G).....	12,250.36		106.58
23 05 23 00-0548		Butterfly Valves (23 05 23)			

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0549 Cast Iron Body, Iron Disc, Butterfly Valves (23 05 23 00-0548)				
Note: With on-off handle, 150 PSI wafer type.				
23 05 23 00-0550	EA	2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	269.41	148.54
		For 200 PSI, Add	40.17	
		For 175 PSI, Add	14.65	
		For Work In Restricted Working Space, Add	55.72	
23 05 23 00-0551	EA	2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	275.03	148.71
		For 200 PSI, Add	42.51	
		For 175 PSI, Add	15.50	
		For Work In Restricted Working Space, Add	55.94	
23 05 23 00-0552	EA	3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	313.59	174.36
		For 200 PSI, Add	45.78	
		For 175 PSI, Add	16.69	
		For Work In Restricted Working Space, Add	65.47	
23 05 23 00-0553	EA	4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	485.99	292.30
		For 200 PSI, Add	57.46	
		For 175 PSI, Add	20.95	
		For Work In Restricted Working Space, Add	109.89	
23 05 23 00-0554	EA	5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	594.73	338.33
		For 200 PSI, Add	81.74	
		For 175 PSI, Add	29.80	
		For Work In Restricted Working Space, Add	127.33	
23 05 23 00-0555	EA	6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	678.16	375.93
		For 200 PSI, Add	99.96	
		For 175 PSI, Add	36.44	
		For Work In Restricted Working Space, Add	140.97	
23 05 23 00-0556	EA	8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	850.38	432.32
		For 200 PSI, Add	150.41	
		For 175 PSI, Add	54.84	
		For Work In Restricted Working Space, Add	161.11	
23 05 23 00-0557	EA	10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,265.12	526.30
		For 200 PSI, Add	291.48	
		For 175 PSI, Add	106.27	
		For Work In Restricted Working Space, Add	197.36	
23 05 23 00-0558	EA	12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,571.08	639.08
		For 200 PSI, Add	371.36	
		For 175 PSI, Add	135.39	
		For Work In Restricted Working Space, Add	239.23	
23 05 23 00-0559 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Butterfly Valves (23 05 23 00-0548)				
23 05 23 00-0560	EA	2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	415.38	148.54
		For Work In Restricted Working Space, Add	55.72	
23 05 23 00-0561	EA	2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	418.08	148.71
		For Work In Restricted Working Space, Add	55.94	
23 05 23 00-0562	EA	3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	461.51	174.36
		For Work In Restricted Working Space, Add	65.47	
23 05 23 00-0563	EA	4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	640.72	292.30
		For Work In Restricted Working Space, Add	109.89	
23 05 23 00-0564	EA	5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	766.01	338.33
		For Work In Restricted Working Space, Add	127.33	
23 05 23 00-0565	EA	6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	848.41	375.93
		For Work In Restricted Working Space, Add	140.97	
23 05 23 00-0566	EA	8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,027.50	432.32
		For Work In Restricted Working Space, Add	161.11	
23 05 23 00-0567	EA	10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,291.39	526.30
		For Work In Restricted Working Space, Add	197.36	
23 05 23 00-0568	EA	12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,718.02	639.08
		For Work In Restricted Working Space, Add	239.23	
23 05 23 00-0569 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Butterfly Valves (23 05 23 00-0548)				
23 05 23 00-0570	EA	14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	2,633.50	742.58
		For 200 PSI, Add	591.62	
		For 175 PSI, Add	205.42	
		For Work In Restricted Working Space, Add	297.04	
23 05 23 00-0571	EA	16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	3,296.99	871.30
		For 200 PSI, Add	794.83	
		For 175 PSI, Add	275.98	
		For Work In Restricted Working Space, Add	326.74	
23 05 23 00-0572	EA	18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,490.47	970.31
		For 200 PSI, Add	1,180.92	
		For 175 PSI, Add	410.04	
		For Work In Restricted Working Space, Add	363.04	
23 05 23 00-0573	EA	20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	5,700.05	1,089.13
		For 200 PSI, Add	1,561.91	
		For 175 PSI, Add	542.33	
		For Work In Restricted Working Space, Add	408.42	
23 05 23 00-0574	EA	24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	7,599.65	1,336.66
		For 200 PSI, Add	2,132.66	
		For 175 PSI, Add	740.51	
		For Work In Restricted Working Space, Add	502.68	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****General-Duty Valves For HVAC Piping 23 05 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0575 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... For 200 PSI, Add For 175 PSI, Add For Work In Restricted Working Space, Add	15,586.80 4,577.93 1,589.56 861.10	2,255.25
23 05 23 00-0576 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... For 200 PSI, Add For 175 PSI, Add For Work In Restricted Working Space, Add	19,745.04 5,816.57 2,019.64 1,076.37	3,075.34
23 05 23 00-0577 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... For 200 PSI, Add For 175 PSI, Add For Work In Restricted Working Space, Add	24,377.26 6,788.67 2,357.18 1,655.95	4,510.50
23 05 23 00-0578 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... For 200 PSI, Add For 175 PSI, Add For Work In Restricted Working Space, Add	29,796.52 8,143.46 2,827.59 2,152.74	5,638.13
23 05 23 00-0579 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... For 200 PSI, Add For 175 PSI, Add For Work In Restricted Working Space, Add	36,096.35 9,765.58 3,390.83 2,690.92	6,765.75
23 05 23 00-0580 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB (23 05 23 00-0548) Note: (Milwaukee Valve Company BB-SC 100)		
23 05 23 00-0581 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB For Work In Restricted Working Space, Add	224.63 17.60	13.93
23 05 23 00-0582 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB For Work In Restricted Working Space, Add	250.76 22.29	14.82
23 05 23 00-0583 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB For Work In Restricted Working Space, Add	310.16 25.72	17.16
23 05 23 00-0584 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB For Work In Restricted Working Space, Add	385.32 30.39	20.28
23 05 23 00-0585 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB For Work In Restricted Working Space, Add	517.53 41.03	27.38
23 05 23 00-0586 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB (23 05 23 00-0548) Note: (Milwaukee Valve Company BB-S02)		
23 05 23 00-0587 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB For Work In Restricted Working Space, Add	321.25 17.60	13.93
23 05 23 00-0588 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB For Work In Restricted Working Space, Add	353.60 22.29	14.82
23 05 23 00-0589 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB For Work In Restricted Working Space, Add	421.21 25.72	17.16
23 05 23 00-0590 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB For Work In Restricted Working Space, Add	503.60 30.39	20.28
23 05 23 00-0591 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB For Work In Restricted Working Space, Add	648.34 41.03	27.38
23 05 29 Hangers And Supports For HVAC Piping And Equipment (23 05 29 00-0001)		
23 05 29 00-0001 Hangers And Supports (23 05 29 00-0001)		
23 05 29 00-0002 Clevis Hangers (23 05 29 00-0001)		
23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) (23 05 29 00-0002) Note: Type 1.		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	20.07 5.54	9.23
23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	22.12 6.15	10.25
23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	23.26 6.48	10.25
23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	24.11 6.66	11.10
23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	24.32 6.66	11.10
23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	25.34 6.84	11.28
23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	27.57 7.04	11.69
23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	29.33 7.24	12.30
23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	30.72 7.73	13.52
23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	33.60 8.21	14.36
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	43.01 10.31	17.18
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100) For Work In Restricted Working Space, Add	51.71 12.31	20.51

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	68.96 15.38	25.65
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	99.88 20.51	34.87
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	116.63 23.08	38.46
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	144.12 26.46	43.08
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	178.47 30.77	51.28
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	222.50 38.46	64.10
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	351.97 46.15	76.93
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	529.46 53.85	89.74
23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	24.34 5.54	9.23
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	26.39 6.15	10.25
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	27.63 6.48	10.25
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	28.57 6.66	11.10
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	29.11 6.66	11.10
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	29.86 6.84	11.28
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	33.09 7.04	11.69
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	34.67 7.24	12.30
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	38.91 8.21	14.36
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	42.51 8.21	14.36
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	68.14 10.31	17.18
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	84.22 12.31	20.51
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	100.65 15.38	25.65
23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	19.92 5.54	9.23
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	22.00 6.15	10.25
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	23.23 6.48	10.25
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	23.87 6.66	11.10
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	23.99 6.66	11.10
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	24.67 6.84	11.28
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	26.70 7.04	11.69
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	27.84 7.24	12.30
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	31.39 8.21	14.36
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	32.23 8.21	14.36
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	27.34 6.15	10.25
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	28.48 6.48	10.25
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	29.09 6.66	11.10
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	29.94 6.66	11.10
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	31.95 6.84	11.28
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	34.10 7.04	11.69

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	35.72 7.24	12.30
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	42.63 8.21	14.36
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	53.77 10.31	17.18
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	66.14 12.31	20.51
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	92.65 15.38	25.65
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	129.54 20.51	34.87
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	145.53 23.08	38.46
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	32.95 6.84	11.28
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	35.03 7.04	11.69
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	36.79 7.24	12.30
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	40.82 8.21	14.36
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	42.94 8.21	14.36
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	53.38 10.31	17.18
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	62.44 12.31	20.51
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	82.40 15.38	25.65
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072) Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	18.29 4.87	8.12
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	20.07 5.40	9.01
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	22.05 6.00	10.00
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	24.36 6.67	11.11
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	25.58 7.00	11.68
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	27.34 7.34	12.23
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	31.09 7.67	12.79
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	32.47 8.00	13.34
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	38.44 9.00	15.01
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072) Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	21.45 6.15 6.20 7.99	10.25
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	22.62 6.48 6.80 8.76	10.25
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	23.82 6.84 6.80 8.76	11.28
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	25.29 7.24 7.59 9.78	12.30
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	28.50 8.21 7.59 9.78	14.36
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	30.51 8.79 7.99 10.29	14.36

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	33.53 9.47 13.00 16.75	15.38
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	36.25 10.26 13.60 17.51	17.43
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	40.20 11.23 18.22 23.46	18.72
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	43.79 12.31 18.22 23.46	20.51
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	51.88 13.85 37.82 48.71	23.08
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	57.10 15.38 38.41 49.47	25.65
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	68.44 18.46 45.61 58.74	30.77
23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	21.96 6.15 9.57 12.33	10.25
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	23.04 6.48 9.57 12.33	10.25
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	24.24 6.84 9.57 12.33	11.28
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	25.59 7.24 9.57 12.33	12.30
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	28.92 8.21 10.36 13.35	14.36
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	30.87 8.79 10.36 13.35	14.36
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	35.68 9.47 27.19 35.02	15.38
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	39.29 10.26 33.66 43.35	17.43
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	42.94 11.23 36.30 46.75	18.72
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	47.73 12.31 44.22 56.95	20.51
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	52.94 13.85 44.81 57.72	23.08
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	61.11 15.38 64.88 83.56	25.65

23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)

23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)

Note: Excludes rod and nuts. Type 41.

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	29.79 4.92	8.21
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	32.84 5.54	9.23
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	36.70 6.46	10.77
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	42.22 7.39	12.31
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	57.34 8.31	13.85
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	52.13 9.23	15.39
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	64.66 11.08	18.46
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	86.09 12.93	21.54
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. For Work In Restricted Working Space, Add	102.10 15.39	25.66
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110) Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	44.95 8.36 112.73 145.18	14.50
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	46.96 8.96 112.73 145.18	14.94
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	50.90 9.56 125.73 161.93	15.60
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	58.79 10.03 167.31 215.48	16.72
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	62.50 11.15 167.31 215.48	18.95
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	70.39 12.24 195.36 251.60	20.40
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	81.34 13.37 242.62 312.46	22.30
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	110.74 16.72 363.07 467.59	27.87
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	139.85 22.29 432.56 557.09	37.90
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	179.95 25.08 635.91 818.98	41.80
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	362.86 28.76 1,762.20 2,269.50	47.93
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110) For Work In Restricted Working Space, Add For 304 Stainless Steel, Add For 316 Stainless Steel, Add	454.19 33.44 2,262.02 2,913.21	55.73
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120) For Work In Restricted Working Space, Add	43.82 8.36	14.50

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120).....	47.20	14.94
For Work In Restricted Working Space, Add	8.96	
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120).....	49.56	15.60
For Work In Restricted Working Space, Add	9.56	
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120).....	56.00	16.72
For Work In Restricted Working Space, Add	10.03	
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120).....	62.38	18.95
For Work In Restricted Working Space, Add	11.15	
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120).....	68.21	20.40
For Work In Restricted Working Space, Add	12.24	
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120).....	82.76	22.30
For Work In Restricted Working Space, Add	13.37	
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120).....	107.35	27.87
For Work In Restricted Working Space, Add	16.72	
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120).....	139.06	37.90
For Work In Restricted Working Space, Add	22.29	
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120).....	177.89	41.80
For Work In Restricted Working Space, Add	25.08	
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120).....	194.76	47.93
For Work In Restricted Working Space, Add	28.76	
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120).....	234.22	55.73
For Work In Restricted Working Space, Add	33.44	
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120).....	314.15	69.66
For Work In Restricted Working Space, Add	41.80	
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120).....	387.95	83.60
For Work In Restricted Working Space, Add	50.16	
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	49.07	14.50
For Work In Restricted Working Space, Add	8.36	
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	54.96	14.94
For Work In Restricted Working Space, Add	8.96	
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122).....	57.84	15.60
For Work In Restricted Working Space, Add	9.56	
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	61.07	16.72
For Work In Restricted Working Space, Add	10.03	
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122).....	73.00	18.95
For Work In Restricted Working Space, Add	11.15	
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122).....	82.58	20.40
For Work In Restricted Working Space, Add	12.24	
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122).....	95.74	22.30
For Work In Restricted Working Space, Add	13.37	
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122).....	134.07	27.87
For Work In Restricted Working Space, Add	16.72	
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122).....	167.87	37.90
For Work In Restricted Working Space, Add	22.29	
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122).....	193.84	41.80
For Work In Restricted Working Space, Add	25.08	
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122).....	271.12	47.93
For Work In Restricted Working Space, Add	28.76	
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122).....	324.54	55.73
For Work In Restricted Working Space, Add	33.44	
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122).....	370.34	69.66
For Work In Restricted Working Space, Add	41.80	
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	49.37	14.50
For Work In Restricted Working Space, Add	8.36	
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	55.23	14.94
For Work In Restricted Working Space, Add	8.96	
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	58.30	15.60
For Work In Restricted Working Space, Add	9.56	
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	60.67	16.72
For Work In Restricted Working Space, Add	10.03	
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	76.06	18.95
For Work In Restricted Working Space, Add	11.15	
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	86.19	20.40
For Work In Restricted Working Space, Add	12.24	
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	100.05	22.30
For Work In Restricted Working Space, Add	13.37	
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	140.74	27.87
For Work In Restricted Working Space, Add	16.72	
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	175.88	37.90
For Work In Restricted Working Space, Add	22.29	
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	203.21	41.80
For Work In Restricted Working Space, Add	25.08	
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	286.10	47.93
For Work In Restricted Working Space, Add	28.76	

23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175) Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140).....	17.32	6.67
For Work In Restricted Working Space, Add	4.00	
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140).....	17.54	6.78
For Work In Restricted Working Space, Add	4.07	
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140).....	17.78	6.89
For Work In Restricted Working Space, Add	4.13	
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140).....	19.22	7.00
For Work In Restricted Working Space, Add	4.20	
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140).....	19.45	7.11
For Work In Restricted Working Space, Add	4.27	
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140).....	20.59	7.22
For Work In Restricted Working Space, Add	4.34	
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140).....	21.39	7.45
For Work In Restricted Working Space, Add	4.47	
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140).....	22.59	7.67
For Work In Restricted Working Space, Add	4.60	
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140).....	25.82	7.78
For Work In Restricted Working Space, Add	4.67	
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140).....	30.26	10.00
For Work In Restricted Working Space, Add	6.00	
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140).....	43.06	13.34
For Work In Restricted Working Space, Add	8.00	
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140).....	58.46	16.67
For Work In Restricted Working Space, Add	10.01	
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140).....	68.75	19.46
For Work In Restricted Working Space, Add	11.67	
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140).....	98.27	22.24
For Work In Restricted Working Space, Add	13.34	
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140).....	132.14	24.46
For Work In Restricted Working Space, Add	14.68	
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140).....	209.55	26.68
For Work In Restricted Working Space, Add	16.01	
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140).....	227.13	28.91
For Work In Restricted Working Space, Add	17.34	
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140).....	363.89	31.13
For Work In Restricted Working Space, Add	18.68	
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140).....	419.96	33.35
For Work In Restricted Working Space, Add	20.01	
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140).....	545.15	36.68
For Work In Restricted Working Space, Add	22.01	
23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	33.33	7.18
For Work In Restricted Working Space, Add	4.28	
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	43.12	7.18
For Work In Restricted Working Space, Add	4.28	
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	47.22	7.43
For Work In Restricted Working Space, Add	4.46	
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	74.19	7.69
For Work In Restricted Working Space, Add	4.64	
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	80.67	8.20
For Work In Restricted Working Space, Add	4.92	
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	136.39	8.20
For Work In Restricted Working Space, Add	4.91	
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	219.55	9.23
For Work In Restricted Working Space, Add	5.54	
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	278.11	10.25
For Work In Restricted Working Space, Add	6.15	
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	302.74	12.30
For Work In Restricted Working Space, Add	7.38	
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	934.32	14.36
For Work In Restricted Working Space, Add	8.62	
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	1,073.63	15.38
For Work In Restricted Working Space, Add	9.23	
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	1,374.22	16.41
For Work In Restricted Working Space, Add	9.85	
23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) (23 05 29 00-0175) Note: Type 8.		
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373).....	17.27	6.15
For Work In Restricted Working Space, Add	3.69	
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373).....	17.95	6.25
For Work In Restricted Working Space, Add	3.76	
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373).....	18.21	6.36
For Work In Restricted Working Space, Add	3.82	
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373).....	19.56	6.46
For Work In Restricted Working Space, Add	3.88	
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	20.29	6.56
For Work In Restricted Working Space, Add	3.94	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	20.76 4.00	6.67
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	21.62 4.12	6.88
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	22.86 4.25	7.08
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	24.95 4.31	7.18
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	30.45 5.54	9.23
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	39.48 7.39	12.30
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	50.00 9.23	15.38
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	67.38 10.77	17.94
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	87.61 12.31	20.51
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	105.30 13.54	22.56
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	139.76 14.77	24.62
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	259.98 16.00	26.67
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	29.10 3.69	6.15
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	29.56 3.76	6.25
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	30.73 3.82	6.36
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	32.75 3.88	6.46
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	36.79 3.94	6.56
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	38.99 4.00	6.67
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	42.10 4.12	6.88
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	46.11 4.25	7.08
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	62.35 5.54	9.23
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	63.57 4.28	7.18
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	67.52 4.64	7.69
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	74.06 4.92	8.20
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	78.89 4.91	8.20
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	95.26 5.54	9.23
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	290.53 6.15	10.25
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	388.81 7.38	12.30
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	463.22 8.62	14.36
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	143.34 9.23	15.38
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	926.47 9.85	16.41
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	58.83 4.28	7.18
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	63.46 4.64	7.69
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	109.38 4.92	8.20
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	121.35 4.91	8.20
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	173.54 5.54	9.23
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	264.98 6.15	10.25

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	355.03 7.38	12.30
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	422.49 8.62	14.36
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	615.99 9.23	15.38
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	841.80 9.85	16.41
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260) Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	28.46 5.67	9.45
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	30.14 6.00	10.00
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	32.85 6.67	11.11
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	35.29 7.00	11.68
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	38.02 7.34	12.23
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	46.23 7.67	12.79
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	50.52 8.00	13.34
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	66.37 9.00	15.01
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	84.35 11.34	18.90
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171) <i>For Work In Restricted Working Space, Add</i>	111.86 13.34	22.24
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260) Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	19.01 4.78	7.80
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	20.03 4.99	7.80
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	22.09 5.57	10.03
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) <i>For Work In Restricted Working Space, Add</i>	23.92 5.87	10.03
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) <i>For Work In Restricted Working Space, Add</i>	26.48 6.08	10.03
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	30.75 6.69	11.14
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) <i>For Work In Restricted Working Space, Add</i>	40.10 6.96	11.14
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	44.37 7.27	12.26
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	47.33 7.96	13.38
23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260) Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	19.01 4.78	7.80
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	20.03 4.99	8.36
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	22.09 5.57	9.48
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) <i>For Work In Restricted Working Space, Add</i>	23.92 5.87	10.03
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) <i>For Work In Restricted Working Space, Add</i>	26.48 6.08	10.03
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	30.75 6.69	11.14
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) <i>For Work In Restricted Working Space, Add</i>	40.10 6.96	11.70
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	44.37 7.27	12.26
23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)		
23 05 29 00-0292 Standard Two Hole Pipe Strap, Steel (Cooper B-Line B-3180) (23 05 29 00-0291) Note: Type 26.		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) <i>For Work In Restricted Working Space, Add</i>	14.13 3.34	5.57

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....14.89		6.68
For Work In Restricted Working Space, Add	3.52	
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....15.62		6.68
For Work In Restricted Working Space, Add	3.71	
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....16.47		6.68
For Work In Restricted Working Space, Add	3.93	
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....17.40		7.80
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....18.59		7.80
For Work In Restricted Working Space, Add	4.46	
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....26.33		7.80
For Work In Restricted Working Space, Add	4.78	
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....28.95		7.80
For Work In Restricted Working Space, Add	5.14	
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....34.27		10.03
For Work In Restricted Working Space, Add	6.02	
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....41.88		11.14
For Work In Restricted Working Space, Add	6.69	
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) .....47.90		12.26
For Work In Restricted Working Space, Add	7.35	
23 05 29 00-0304 2-Hole Copper Straps (23 05 29 00-0291)		
23 05 29 00-0305 EA 1/2" 2-Hole Copper Straps.....5.77		
For Work In Restricted Working Space, Add	1.67	
23 05 29 00-0306 EA 3/4" 2-Hole Copper Straps.....6.19		
For Work In Restricted Working Space, Add	1.76	
23 05 29 00-0307 EA 1" 2-Hole Copper Straps.....2.93		
For Work In Restricted Working Space, Add	0.76	
23 05 29 00-0308 Black Malleable Iron Clamps, 1 Hole (23 05 29 00-0291)		
23 05 29 00-0309 EA 1/2" Galvanized Steel Strap, 1 Hole.....2.52		
For Work In Restricted Working Space, Add	0.56	
23 05 29 00-0310 EA 3/4" Galvanized Steel Strap, 1 Hole.....2.76		
For Work In Restricted Working Space, Add	0.60	
23 05 29 00-0311 EA 1" Galvanized Steel Strap, 1 Hole.....3.32		
For Work In Restricted Working Space, Add	0.64	
23 05 29 00-0312 EA 1-1/4" Galvanized Steel Strap, 1 Hole.....3.80		
For Work In Restricted Working Space, Add	0.70	
23 05 29 00-0313 EA 1-1/2" Galvanized Steel Strap, 1 Hole.....4.29		
For Work In Restricted Working Space, Add	0.76	
23 05 29 00-0314 EA 2" Galvanized Steel Strap, 1 Hole.....5.57		
For Work In Restricted Working Space, Add	0.83	
23 05 29 00-0315 Pipe and Equipment Support Brackets (23 05 29 00-0001)		
23 05 29 00-0316 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) (23 05 29 00-0315)		
Note: Up to 750# load.		
23 05 29 00-0317 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....106.60		12.30
For Galvanized, Add	16.40	
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0318 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068).....108.10		12.30
For Galvanized, Add	16.70	
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0319 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068).....114.03		12.30
For Galvanized, Add	17.88	
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0320 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0315)		
Note: Up to 1500# load.		
23 05 29 00-0321 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....251.46		12.30
For Galvanized, Add	45.37	
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0322 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....294.10		12.30
For Galvanized, Add	53.90	
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0323 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....381.06		12.30
For Galvanized, Add	71.29	
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0324 Pipe Alignment Guide (23 05 29 00-0001)		
23 05 29 00-0325 Pipe Alignment Guide, 1" Insulation (23 05 29 00-0324)		
23 05 29 00-0326 EA 1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2) .....236.02		19.48
23 05 29 00-0327 EA 3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4) .....237.04		20.00
23 05 29 00-0328 EA 1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1) .....238.07		20.51
23 05 29 00-0329 EA 1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4) .....239.09		21.02

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****23****Hangers And Supports For HVAC Piping And Equipment 23 05 29**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0330 EA 1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....	259.31	21.53
23 05 29 00-0331 EA 2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....	266.40	23.59
23 05 29 00-0332 EA 2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....	267.94	24.36
23 05 29 00-0333 EA 3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....	269.47	25.13
23 05 29 00-0334 EA 4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....	285.28	26.67
23 05 29 00-0335 EA 5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....	335.78	33.85
23 05 29 00-0336 EA 6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....	350.14	41.03
23 05 29 00-0337 EA 8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....	400.31	51.28
23 05 29 00-0338 EA 10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....	702.68	61.53
23 05 29 00-0339 EA 12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....	1,056.34	82.05
23 05 29 00-0340 EA 14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....	1,301.68	102.56
23 05 29 00-0341 EA 16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....	1,556.60	114.87
23 05 29 00-0342 EA 18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....	1,683.78	128.21
23 05 29 00-0343 EA 20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....	1,801.20	146.66
23 05 29 00-0344 EA 24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....	2,234.58	153.84
23 05 29 00-0345 Pipe Alignment Guide, 1-1/2" Insulation (23 05 29 00-0324)		
23 05 29 00-0346 EA 1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....	237.04	20.00
23 05 29 00-0347 EA 3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....	257.26	20.51
23 05 29 00-0348 EA 1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....	258.28	21.02
23 05 29 00-0349 EA 1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....	259.31	21.53
23 05 29 00-0350 EA 1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....	260.33	22.05
23 05 29 00-0351 EA 2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....	267.42	24.11
23 05 29 00-0352 EA 2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....	268.96	24.87
23 05 29 00-0353 EA 3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....	283.23	25.65
23 05 29 00-0354 EA 4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....	286.31	27.18
23 05 29 00-0355 EA 5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....	337.31	34.61
23 05 29 00-0356 EA 6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....	352.19	42.05
23 05 29 00-0357 EA 8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....	402.87	52.57
23 05 29 00-0358 EA 10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....	705.75	63.07
23 05 29 00-0359 EA 12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....	1,060.45	84.10
23 05 29 00-0360 EA 14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....	1,306.82	105.12
23 05 29 00-0361 EA 16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....	1,562.75	117.95
23 05 29 00-0362 EA 18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....	1,689.93	131.28
23 05 29 00-0363 EA 20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....	1,808.37	150.25
23 05 29 00-0364 EA 24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....	2,242.27	157.69
23 05 29 00-0365 Pipe Alignment Guide, 2" Insulation (23 05 29 00-0324)		
23 05 29 00-0366 EA 1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....	257.26	20.51
23 05 29 00-0367 EA 3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....	261.27	21.02
23 05 29 00-0368 EA 1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....	262.30	21.53
23 05 29 00-0369 EA 1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....	263.32	22.05
23 05 29 00-0370 EA 1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....	264.35	22.56
23 05 29 00-0371 EA 2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2).....	281.18	24.62
23 05 29 00-0372 EA 2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2).....	283.23	25.65
23 05 29 00-0373 EA 3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3).....	284.52	26.28
23 05 29 00-0374 EA 4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4).....	323.47	27.70
23 05 29 00-0375 EA 5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5).....	338.86	35.39
23 05 29 00-0376 EA 6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6).....	383.90	43.08
23 05 29 00-0377 EA 8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8).....	438.30	53.84
23 05 29 00-0378 EA 10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....	708.83	64.61
23 05 29 00-0379 EA 12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....	1,064.55	86.15
23 05 29 00-0380 EA 14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....	1,311.94	107.69
23 05 29 00-0381 EA 16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....	1,568.67	120.91
23 05 29 00-0382 EA 18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....	1,696.60	134.61
23 05 29 00-0383 EA 20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....	1,815.56	153.84
23 05 29 00-0384 EA 24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....	2,249.96	161.53
23 05 29 00-0385 Pipe Alignment Guide, 2-1/2" Insulation (23 05 29 00-0324)		
23 05 29 00-0386 EA 1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....	261.27	21.02
23 05 29 00-0387 EA 3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	275.03	21.53
23 05 29 00-0388 EA 1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	276.05	22.05
23 05 29 00-0389 EA 1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	277.08	22.56
23 05 29 00-0390 EA 1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	278.10	23.08
23 05 29 00-0391 EA 2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	282.20	25.13
23 05 29 00-0392 EA 2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	284.52	26.28
23 05 29 00-0393 EA 3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	321.93	26.92
23 05 29 00-0394 EA 4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	324.50	28.21
23 05 29 00-0395 EA 5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	369.55	35.90
23 05 29 00-0396 EA 6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	385.95	44.10
23 05 29 00-0397 EA 8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	689.85	55.13
23 05 29 00-0398 EA 10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	1,024.55	66.15
23 05 29 00-0399 EA 12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....	1,272.97	88.20
23 05 29 00-0400 EA 14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....	1,317.27	110.25
23 05 29 00-0401 EA 16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....	1,575.06	124.10
23 05 29 00-0402 EA 18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....	1,703.26	137.95
23 05 29 00-0403 EA 20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....	1,823.25	157.69
23 05 29 00-0404 EA 24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....	2,258.17	165.64

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0405 Pipe Alignment Guide, 3" Insulation (23 05 29 00-0324)				
23 05 29 00-0406	EA	1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2)	275.03	21.53
23 05 29 00-0407	EA	3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4)	276.05	22.05
23 05 29 00-0408	EA	1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1)	277.08	22.56
23 05 29 00-0409	EA	1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4)	278.10	23.08
23 05 29 00-0410	EA	1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2)	279.13	23.59
23 05 29 00-0411	EA	2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2)	319.37	25.65
23 05 29 00-0412	EA	2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2)	321.93	26.92
23 05 29 00-0413	EA	3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3)	323.47	27.70
23 05 29 00-0414	EA	4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4)	355.59	28.92
23 05 29 00-0415	EA	5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5)	371.60	36.92
23 05 29 00-0416	EA	6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6)	420.87	45.13
23 05 29 00-0417	EA	8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8)	692.41	56.41
23 05 29 00-0418	EA	10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10)	1,027.62	67.69
23 05 29 00-0419	EA	12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12)	1,277.07	90.26
23 05 29 00-0420	EA	14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14)	1,322.40	112.81
23 05 29 00-0421	EA	16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16)	1,581.21	127.18
23 05 29 00-0422	EA	18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18)	1,709.42	141.02
23 05 29 00-0423	EA	20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20)	1,830.94	161.53
23 05 29 00-0424	EA	24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24)	2,266.37	169.74
23 05 29 00-0425 Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0324)				
23 05 29 00-0426	EA	1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2)	276.05	22.05
23 05 29 00-0427	EA	3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4)	313.22	22.56
23 05 29 00-0428	EA	1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1)	314.24	23.08
23 05 29 00-0429	EA	1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4)	315.27	23.59
23 05 29 00-0430	EA	1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2)	316.29	24.11
23 05 29 00-0431	EA	2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2)	320.66	26.28
23 05 29 00-0432	EA	2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2)	323.27	27.59
23 05 29 00-0433	EA	3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3)	354.52	28.38
23 05 29 00-0434	EA	4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4)	357.23	29.75
23 05 29 00-0435	EA	5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5)	406.51	37.95
23 05 29 00-0436	EA	6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6)	671.91	46.15
23 05 29 00-0437	EA	8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8)	1,007.62	57.69
23 05 29 00-0438	EA	10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10)	1,235.53	69.39
23 05 29 00-0439	EA	12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12)	1,511.47	92.31
23 05 29 00-0440	EA	14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14)	1,558.14	115.64
23 05 29 00-0441	EA	16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16)	1,692.62	130.26
23 05 29 00-0442	EA	18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18)	1,797.09	144.61
23 05 29 00-0443	EA	20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20)	2,257.14	165.13
23 05 29 00-0444 Pipe Alignment Guide, 4" Insulation (23 05 29 00-0324)				
23 05 29 00-0445	EA	1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2)	313.22	22.56
23 05 29 00-0446	EA	3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4)	314.24	23.08
23 05 29 00-0447	EA	1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1)	315.27	23.59
23 05 29 00-0448	EA	1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4)	316.29	24.11
23 05 29 00-0449	EA	1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2)	317.32	24.62
23 05 29 00-0450	EA	2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2)	351.59	26.92
23 05 29 00-0451	EA	2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2)	354.16	28.21
23 05 29 00-0452	EA	3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3)	355.91	29.07
23 05 29 00-0453	EA	4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4)	391.63	30.51
23 05 29 00-0454	EA	5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5)	657.55	38.98
23 05 29 00-0455	EA	6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6)	673.96	47.18
23 05 29 00-0456	EA	8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8)	1,010.19	58.97
23 05 29 00-0457	EA	10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10)	1,239.32	71.29
23 05 29 00-0458	EA	12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12)	1,516.09	94.62
23 05 29 00-0459	EA	14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14)	1,663.26	117.95
23 05 29 00-0460	EA	16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16)	1,774.53	133.33
23 05 29 00-0461	EA	18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18)	2,224.32	148.71
23 05 29 00-0462 Sway Bracing For No Hub Pipe (23 05 29 00-0001)				
23 05 29 00-0463	EA	1-1/2" Sway Bracing.....	89.51	13.54
		<i>For Work In Restricted Working Space, Add</i>	8.10	
23 05 29 00-0464	EA	2" Sway Bracing.....	92.50	14.26
		<i>For Work In Restricted Working Space, Add</i>	8.55	
23 05 29 00-0465	EA	3" Sway Bracing.....	96.08	15.08
		<i>For Work In Restricted Working Space, Add</i>	9.05	
23 05 29 00-0466	EA	4" Sway Bracing.....	109.04	17.13
		<i>For Work In Restricted Working Space, Add</i>	10.26	
23 05 29 00-0467	EA	6" Sway Bracing.....	160.43	25.65
		<i>For Work In Restricted Working Space, Add</i>	15.38	
23 05 29 00-0468	EA	8" Sway Bracing.....	180.66	32.00
		<i>For Work In Restricted Working Space, Add</i>	19.23	
23 05 29 00-0469	EA	10" Sway Bracing.....	209.00	42.77
		<i>For Work In Restricted Working Space, Add</i>	25.64	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
23 05 29 00-0470	Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001)			
Note: Heights listed is total for base and adjustable saddle				
23 05 29 00-0471	EA	23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	124.81	10.25
		For Work In Restricted Working Space, Add	6.15	
23 05 29 00-0472	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	128.32	11.28
		For Work In Restricted Working Space, Add	6.77	
23 05 29 00-0473	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	223.46	12.82
		For Work In Restricted Working Space, Add	7.70	
23 05 29 00-0474	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	280.22	14.36
		For Work In Restricted Working Space, Add	8.62	
23 05 29 00-0475	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	285.29	15.89
		For Work In Restricted Working Space, Add	9.54	
23 05 29 00-0476	EA	25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	311.30	17.94
		For Work In Restricted Working Space, Add	10.77	
23 05 29 00-0477	EA	25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	373.19	19.48
		For Work In Restricted Working Space, Add	11.69	
23 05 29 00-0478	EA	25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	378.89	21.02
		For Work In Restricted Working Space, Add	12.62	
23 05 29 00-0479	EA	26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	386.29	23.08
		For Work In Restricted Working Space, Add	13.85	
23 05 29 00-0480	EA	28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	402.07	25.13
		For Work In Restricted Working Space, Add	15.08	
23 05 29 00-0481	EA	29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	428.84	27.70
		For Work In Restricted Working Space, Add	16.61	
23 05 29 00-0482	EA	30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	443.50	30.77
		For Work In Restricted Working Space, Add	18.46	
23 05 29 00-0483	EA	32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	537.44	33.85
		For Work In Restricted Working Space, Add	20.31	
23 05 29 00-0484	EA	33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	582.90	37.95
		For Work In Restricted Working Space, Add	22.77	
23 05 29 00-0485	EA	35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	818.27	42.05
		For Work In Restricted Working Space, Add	25.23	
23 05 29 00-0486	EA	36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	980.80	46.15
		For Work In Restricted Working Space, Add	27.69	
23 05 29 00-0487	EA	39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)	1,153.39	50.25
		For Work In Restricted Working Space, Add	30.15	
23 05 29 00-0488	Channel Mounted Cushion Clamp (23 05 29 00-0001)			
Note: Includes fastening into channel.				
23 05 29 00-0489	EA	1/2" Channel Mounted Cushion Clamp For 3/8" Pipe	13.00	4.61
23 05 29 00-0490	EA	5/8" Channel Mounted Cushion Clamp For 1/2" Pipe	13.69	5.13
23 05 29 00-0491	EA	7/8" Channel Mounted Cushion Clamp For 3/4" Pipe	14.76	5.39
23 05 29 00-0492	EA	1-1/8" Channel Mounted Cushion Clamp For 1" Pipe	15.88	5.64
23 05 29 00-0493	EA	1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe	17.82	6.15
23 05 29 00-0494	EA	1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe	19.45	6.41
23 05 29 00-0495	EA	2-1/8" Channel Mounted Cushion Clamp For 2" Pipe	25.19	6.67
23 05 29 00-0496	EA	2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe	29.00	7.18
23 05 29 00-0497	EA	3-1/8" Channel Mounted Cushion Clamp For 3" Pipe	36.62	8.20
23 05 29 00-0498	EA	4-1/8" Channel Mounted Cushion Clamp For 4" Pipe	51.22	9.23
23 05 29 00-0499	Galvanized Steel Cushion Tube Clamp (23 05 29 00-0001)			
Note: Excludes fastening bolt and drilling if necessary.				
23 05 29 00-0500	EA	1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe	3.60	
		Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0501	EA	1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe	3.66	
		Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0502	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe	3.71	
		Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0503	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe	3.82	
		Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0504	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe	3.69	
		Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0505 EA 7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....3.89 Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw	3.89	
23 05 29 00-0506 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....3.76 Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw	3.76	
23 05 29 00-0507 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....4.01 Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw	4.01	
23 05 29 00-0508 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe.....4.02 Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw	4.02	
23 05 29 00-0509 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe .....3.88 Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw	3.88	
23 05 29 00-0510 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe .....3.99 Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw	3.99	
23 05 29 00-0511 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe .....4.34 Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	4.34	
23 05 29 00-0512 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe .....4.00 Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw	4.00	
23 05 29 00-0513 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe .....4.23 Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	4.23	
23 05 29 00-0514 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe .....4.60 Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw	4.60	
23 05 29 00-0515 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....4.63 Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw	4.63	
23 05 29 00-0516 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....4.83 Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	4.83	
23 05 29 00-0517 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe.....5.24 Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	5.24	
23 05 29 00-0518 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe .....5.36 Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw	5.36	
23 05 29 00-0519 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe .....5.97 Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw	5.97	
23 05 29 00-0520 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe .....6.02 Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw	6.02	
23 05 29 00-0521 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....5.49 Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw	5.49	
23 05 29 00-0522 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....5.97 Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw	5.97	
23 05 29 00-0523 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe.....6.26 Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw	6.26	
23 05 29 00-0524 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe .....5.64 Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw	5.64	
23 05 29 00-0525 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe .....5.94 Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw	5.94	
23 05 29 00-0526 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe .....7.07 Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw	7.07	
23 05 29 00-0527 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....5.61 Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw	5.61	
23 05 29 00-0528 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....6.04 Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw	6.04	
23 05 29 00-0529 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....7.32 Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw	7.32	
23 05 29 00-0530 Rooftop Pipe Supports (23 05 29 00-0001) Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0531 Rooftop Support Base (23 05 29 00-0530)		
23 05 29 00-0532 EA 4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM) .....34.12	34.12	8.36
23 05 29 00-0533 EA 4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP) .....47.41	47.41	11.14
23 05 29 00-0534 Rooftop Support Base With 14 Gauge Galvanized Channel (23 05 29 00-0530)		
23 05 29 00-0535 EA 5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5) .....38.46	38.46	8.36
23 05 29 00-0536 EA 5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10) .....54.45	54.45	11.14
23 05 29 00-0537 EA 5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20) .....98.69	98.69	13.93
23 05 29 00-0538 EA 5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30) .....135.70	135.70	16.71
23 05 29 00-0539 EA 5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40) .....186.90	186.90	19.50
23 05 29 00-0540 EA 5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48) .....197.59	197.59	22.29
23 05 29 00-0541 Rooftop Support Base With 12 Gauge Galvanized Channel (23 05 29 00-0530)		
23 05 29 00-0542 EA 6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610) .....65.96	65.96	11.14
23 05 29 00-0543 EA 6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620) .....103.83	103.83	13.93
23 05 29 00-0544 EA 6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630) .....137.76	137.76	16.71
23 05 29 00-0545 EA 6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640) .....187.02	187.02	19.50
23 05 29 00-0546 EA 6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648) .....208.95	208.95	16.71
23 05 29 00-0547 Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (23 05 29 00-0530)		
23 05 29 00-0548 EA 5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28) .....109.93	109.93	16.71
23 05 29 00-0549 EA 5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36) .....125.33	125.33	19.50

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0550 EA 5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42)	130.86	22.29
23 05 29 00-0551 EA 5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50)	143.43	25.07
23 05 29 00-0552 EA 5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60)	182.38	27.86
23 05 29 00-0553 Rooftop Pipe Support Base And Rod (23 05 29 00-0530)		
23 05 29 00-0554 EA 9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT)	79.59	11.14
23 05 29 00-0555 EA 9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT)	79.59	11.14
23 05 29 00-0556 EA 9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT)	80.02	11.14
23 05 29 00-0557 EA 10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT)	86.03	13.93
23 05 29 00-0558 EA 10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT)	82.88	13.93
23 05 29 00-0559 EA 10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT)	86.92	13.93
23 05 29 00-0560 Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (23 05 29 00-0530)		
23 05 29 00-0561 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2)	100.21	11.14
23 05 29 00-0562 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6)	111.52	11.14
23 05 29 00-0563 EA 8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10)	146.00	13.93
23 05 29 00-0564 EA 9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14)	192.22	13.93
23 05 29 00-0565 EA 9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20)	260.87	13.93
23 05 29 00-0566 Rooftop Support Base And Adjustable Height Roller Assembly (23 05 29 00-0530) Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0567 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12)	125.60	16.71
23 05 29 00-0568 Rooftop Support Base And Adjustable Height Channel Assembly (23 05 29 00-0530) Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0569 EA Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8)	83.09	13.93
23 05 29 00-0570 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12)	112.67	16.71
23 05 29 00-0571 EA Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16)	125.86	19.50
23 05 29 00-0572 Rooftop Support Bases With Channel Support And Risers Assembly (23 05 29 00-0530) Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0573 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS)	297.68	22.29
23 05 29 00-0574 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS)	300.94	22.29
23 05 29 00-0575 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS)	312.35	22.29
23 05 29 00-0576 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS)	338.55	22.29
23 05 29 00-0577 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS)	291.88	22.29
23 05 29 00-0578 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS)	302.80	22.29
23 05 29 00-0579 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS)	314.21	22.29
23 05 29 00-0580 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS)	340.40	22.29
23 05 29 00-0581 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS)	304.85	22.29
23 05 29 00-0582 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS)	308.67	22.29
23 05 29 00-0583 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS)	319.86	22.29
23 05 29 00-0584 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS)	346.16	22.29
23 05 29 00-0585 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS)	318.12	22.29
23 05 29 00-0586 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS)	321.59	22.29
23 05 29 00-0587 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS)	332.78	22.29
23 05 29 00-0588 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS)	359.09	22.29

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 05 29 00-0589	Threaded Rod, Accessories And Attachments (23 05 29)				
23 05 29 00-0590	Threaded Rod And Rod Accessories (23 05 29 00-0589)				
23 05 29 00-0591	Threaded Rod (23 05 29 00-0590)				
	Note: Fully threaded.				
23 05 29 00-0592	LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.69		0.70	
	For Galvanized, Add	0.52			
	For Zinc Plated, Add	0.37			
	For Work In Restricted Working Space, Add	0.42			
23 05 29 00-0593	LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.52		0.74	
	For Galvanized, Add	0.82			
	For Zinc Plated, Add	0.58			
	For Work In Restricted Working Space, Add	0.44			
23 05 29 00-0594	LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.71		0.77	
	For Galvanized, Add	1.27			
	For Zinc Plated, Add	0.90			
	For Work In Restricted Working Space, Add	0.46			
23 05 29 00-0595	LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.34		0.79	
	For Galvanized, Add	2.30			
	For Zinc Plated, Add	1.64			
	For Work In Restricted Working Space, Add	0.47			
23 05 29 00-0596	LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.97		0.82	
	For Galvanized, Add	2.53			
	For Zinc Plated, Add	1.80			
	For Work In Restricted Working Space, Add	0.49			
23 05 29 00-0597	LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.74		0.92	
	For Galvanized, Add	3.55			
	For Zinc Plated, Add	2.53			
	For Work In Restricted Working Space, Add	0.56			
23 05 29 00-0598	LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	13.26		1.04	
	For Galvanized, Add	4.48			
	For Zinc Plated, Add	3.19			
	For Work In Restricted Working Space, Add	0.62			
23 05 29 00-0599	Rod Couplings (23 05 29 00-0590)				
23 05 29 00-0600	EA 3/8" Diameter, Threaded Rod Coupling Nut.....	7.73			
	For Work In Restricted Working Space, Add	2.05			
23 05 29 00-0601	EA 1/2" Diameter, Threaded Rod Coupling Nut.....	8.71			
	For Work In Restricted Working Space, Add	2.28			
23 05 29 00-0602	EA 5/8" Diameter, Threaded Rod Coupling Nut.....	10.53			
	For Work In Restricted Working Space, Add	2.57			
23 05 29 00-0603	EA 3/4" Diameter, Threaded Rod Coupling Nut.....	12.42			
	For Work In Restricted Working Space, Add	2.80			
23 05 29 00-0604	EA 7/8" Diameter, Threaded Rod Coupling Nut.....	16.92			
	For Work In Restricted Working Space, Add	3.08			
23 05 29 00-0605	EA 1" Diameter, Threaded Rod Coupling Nut.....	20.03			
	For Work In Restricted Working Space, Add	3.62			
23 05 29 00-0606	EA 1-1/8" Diameter, Threaded Rod Coupling Nut	34.76			
	For Work In Restricted Working Space, Add	4.10			
23 05 29 00-0607	Flat Washers (23 05 29 00-0590)				
	Note: Zinc plated.				
23 05 29 00-0608	EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.54		0.22	
	For Galvanized, Add	0.02			
	For Work In Restricted Working Space, Add	0.14			
23 05 29 00-0609	EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.69		0.22	
	For Galvanized, Add	0.04			
	For Work In Restricted Working Space, Add	0.16			
23 05 29 00-0610	EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.95		0.33	
	For Galvanized, Add	0.08			
	For Work In Restricted Working Space, Add	0.19			
23 05 29 00-0611	EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.26		0.33	
	For Galvanized, Add	0.12			
	For Work In Restricted Working Space, Add	0.24			
23 05 29 00-0612	EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.48		0.44	
	For Galvanized, Add	0.14			
	For Work In Restricted Working Space, Add	0.28			
23 05 29 00-0613	EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.72		0.44	
	For Galvanized, Add	0.17			
	For Work In Restricted Working Space, Add	0.31			
23 05 29 00-0614	EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.94		0.55	
	For Galvanized, Add	0.19			
	For Work In Restricted Working Space, Add	0.35			
23 05 29 00-0615	Hex Nuts (23 05 29 00-0590)				
	Note: Grade 2 and zinc plated.				
23 05 29 00-0616	EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.69		0.28	
	For Galvanized, Add	0.02			
	For Work In Restricted Working Space, Add	0.19			

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0617 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	0.83 0.04 0.21	0.28
23 05 29 00-0618 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	1.06 0.08 0.22	0.28
23 05 29 00-0619 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	1.21 0.11 0.23	0.55
23 05 29 00-0620 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	1.64 0.21 0.25	0.55
23 05 29 00-0621 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	2.04 0.28 0.28	0.55
23 05 29 00-0622 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	3.16 0.53 0.31	0.55
23 05 29 00-0623 Turnbuckle (Cooper B-Line B3202) (23 05 29 00-0590) Note: Type 13.		
23 05 29 00-0624 EA 3/8" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	24.48 3.34	5.57
23 05 29 00-0625 EA 1/2" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	28.97 3.71	6.13
23 05 29 00-0626 EA 5/8" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	31.28 4.18	6.68
23 05 29 00-0627 EA 3/4" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	39.15 4.78	7.80
23 05 29 00-0628 EA 7/8" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	50.42 5.57	8.36
23 05 29 00-0629 EA 1" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	62.50 6.69	8.92
23 05 29 00-0630 EA 1-1/8" Turnbuckle (Cooper B-Line B3202) <i>For Work In Restricted Working Space, Add</i>	86.30 8.36	10.03
23 05 29 00-0631 Swivel Turnbuckle (Cooper B-Line B3224) (23 05 29 00-0590) Note: Type 15.		
23 05 29 00-0632 EA 3/8" Swivel Turnbuckle (Cooper B-Line B3224) <i>For Work In Restricted Working Space, Add</i>	16.05 3.34	5.57
23 05 29 00-0633 EA 1/2" Swivel Turnbuckle (Cooper B-Line B3224) <i>For Work In Restricted Working Space, Add</i>	18.51 3.71	6.24
23 05 29 00-0634 EA 5/8" Swivel Turnbuckle (Cooper B-Line B3224) <i>For Work In Restricted Working Space, Add</i>	24.21 4.18	6.91
23 05 29 00-0635 EA 3/4" Swivel Turnbuckle (Cooper B-Line B3224) <i>For Work In Restricted Working Space, Add</i>	29.14 4.78	7.91
23 05 29 00-0636 Forged Steel Clevis (Cooper B-Line B3201) (23 05 29 00-0590) Note: Type 14.		
23 05 29 00-0637 EA 3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	79.41 6.15	10.25
23 05 29 00-0638 EA 4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	116.00 6.48	10.77
23 05 29 00-0639 EA 5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	125.39 6.84	11.28
23 05 29 00-0640 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	130.63 7.24	12.30
23 05 29 00-0641 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	137.74 8.21	13.84
23 05 29 00-0642 EA 6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	228.26 10.77	17.94
23 05 29 00-0643 EA 5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	248.01 12.31	20.51
23 05 29 00-0644 EA 7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	292.76 15.38	25.65
23 05 29 00-0645 Welded Eye Rod (Cooper B-Line B3211) (23 05 29 00-0590)		
23 05 29 00-0646 EA 3/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	24.48 3.62	6.02
23 05 29 00-0647 EA 3/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	25.25 3.69	6.13
23 05 29 00-0648 EA 3/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	26.01 3.76	6.24
23 05 29 00-0649 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	26.25 3.83	6.35
23 05 29 00-0650 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	27.78 3.97	6.57
23 05 29 00-0651 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	29.57 4.18	7.02

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0652 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	30.80 4.39	7.36
23 05 29 00-0653 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	33.13 4.60	7.69
23 05 29 00-0654 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	34.89 4.81	8.02
23 05 29 00-0655 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	36.66 5.01	8.36
23 05 29 00-0656 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	32.23 4.01	6.68
23 05 29 00-0657 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	33.00 4.08	6.80
23 05 29 00-0658 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	33.80 4.16	6.91
23 05 29 00-0659 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	34.59 4.23	7.03
23 05 29 00-0660 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	36.17 4.38	7.25
23 05 29 00-0661 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	39.05 4.60	7.69
23 05 29 00-0662 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	41.42 4.82	8.02
23 05 29 00-0663 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	44.31 5.05	8.36
23 05 29 00-0664 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	46.66 5.27	8.81
23 05 29 00-0665 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	49.03 5.49	9.14
23 05 29 00-0666 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	42.99 4.49	7.47
23 05 29 00-0667 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	44.31 4.57	7.58
23 05 29 00-0668 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	45.65 4.64	7.69
23 05 29 00-0669 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	46.45 4.72	7.91
23 05 29 00-0670 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	48.58 4.87	8.13
23 05 29 00-0671 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	52.05 5.10	8.47
23 05 29 00-0672 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	55.50 5.33	8.92
23 05 29 00-0673 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	58.43 5.57	9.25
23 05 29 00-0674 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	61.89 5.80	9.70
23 05 29 00-0675 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	65.34 6.02	10.03
23 05 29 00-0676 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	52.56 5.10	8.47
23 05 29 00-0677 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	54.44 5.18	8.58
23 05 29 00-0678 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	55.78 5.26	8.81
23 05 29 00-0679 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	57.67 5.34	8.92
23 05 29 00-0680 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	60.89 5.50	9.14
23 05 29 00-0681 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	65.44 5.73	9.59
23 05 29 00-0682 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	70.00 5.97	9.92
23 05 29 00-0683 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	75.11 6.21	10.36
23 05 29 00-0684 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	80.20 6.44	10.70
23 05 29 00-0685 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	84.77 6.68	11.15
23 05 29 00-0686 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	62.82 5.92	9.81
23 05 29 00-0687 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	65.24 5.99	10.03
23 05 29 00-0688 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	67.15 6.08	10.14
23 05 29 00-0689 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	69.04 6.17	10.25
23 05 29 00-0690 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	72.83 6.33	10.59
23 05 29 00-0691 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	79.03 6.57	10.93
23 05 29 00-0692 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	84.70 6.82	11.37
23 05 29 00-0693 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	90.91 7.07	11.81

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0694	EA	7/8" Diameter x 42" Length Shank, Welded Eye Rod.....	96.59	12.15
		<i>For Work In Restricted Working Space, Add</i>	7.32	
23 05 29 00-0695	EA	7/8" Diameter x 48" Length Shank, Welded Eye Rod.....	102.26	12.60
		<i>For Work In Restricted Working Space, Add</i>	7.56	
23 05 29 00-0696	EA	1" Diameter x 8" Length Shank, Welded Eye Rod.....	78.49	11.81
		<i>For Work In Restricted Working Space, Add</i>	7.06	
23 05 29 00-0697	EA	1" Diameter x 10" Length Shank, Welded Eye Rod.....	80.96	11.92
		<i>For Work In Restricted Working Space, Add</i>	7.15	
23 05 29 00-0698	EA	1" Diameter x 12" Length Shank, Welded Eye Rod.....	83.43	12.04
		<i>For Work In Restricted Working Space, Add</i>	7.25	
23 05 29 00-0699	EA	1" Diameter x 14" Length Shank, Welded Eye Rod.....	85.89	12.26
		<i>For Work In Restricted Working Space, Add</i>	7.34	
23 05 29 00-0700	EA	1" Diameter x 18" Length Shank, Welded Eye Rod.....	90.80	12.60
		<i>For Work In Restricted Working Space, Add</i>	7.52	
23 05 29 00-0701	EA	1" Diameter x 24" Length Shank, Welded Eye Rod.....	98.21	13.04
		<i>For Work In Restricted Working Space, Add</i>	7.80	
23 05 29 00-0702	EA	1" Diameter x 30" Length Shank, Welded Eye Rod.....	105.62	13.49
		<i>For Work In Restricted Working Space, Add</i>	8.08	
23 05 29 00-0703	EA	1" Diameter x 36" Length Shank, Welded Eye Rod.....	113.52	13.93
		<i>For Work In Restricted Working Space, Add</i>	8.36	
23 05 29 00-0704	EA	1" Diameter x 42" Length Shank, Welded Eye Rod.....	120.91	14.37
		<i>For Work In Restricted Working Space, Add</i>	8.64	
23 05 29 00-0705	EA	1" Diameter x 48" Length Shank, Welded Eye Rod.....	128.32	14.83
		<i>For Work In Restricted Working Space, Add</i>	8.92	
23 05 29 00-0706 Welded Linked Eye Rod (Cooper B-Line B3211X) (23 05 29 00-0590)				
23 05 29 00-0707	EA	3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	49.72	8.13
		<i>For Work In Restricted Working Space, Add</i>	4.91	
23 05 29 00-0708	EA	3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	51.06	8.36
		<i>For Work In Restricted Working Space, Add</i>	5.04	
23 05 29 00-0709	EA	3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	52.42	8.69
		<i>For Work In Restricted Working Space, Add</i>	5.18	
23 05 29 00-0710	EA	3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	53.13	9.02
		<i>For Work In Restricted Working Space, Add</i>	5.39	
23 05 29 00-0711	EA	3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	55.59	9.36
		<i>For Work In Restricted Working Space, Add</i>	5.60	
23 05 29 00-0712	EA	3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	58.82	10.03
		<i>For Work In Restricted Working Space, Add</i>	6.02	
23 05 29 00-0713	EA	3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	61.09	10.69
		<i>For Work In Restricted Working Space, Add</i>	6.44	
23 05 29 00-0714	EA	3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	65.19	11.48
		<i>For Work In Restricted Working Space, Add</i>	6.85	
23 05 29 00-0715	EA	1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	63.75	9.03
		<i>For Work In Restricted Working Space, Add</i>	5.42	
23 05 29 00-0716	EA	1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	65.14	9.25
		<i>For Work In Restricted Working Space, Add</i>	5.57	
23 05 29 00-0717	EA	1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	66.56	9.48
		<i>For Work In Restricted Working Space, Add</i>	5.72	
23 05 29 00-0718	EA	1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	68.19	9.92
		<i>For Work In Restricted Working Space, Add</i>	5.94	
23 05 29 00-0719	EA	1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	70.71	10.25
		<i>For Work In Restricted Working Space, Add</i>	6.16	
23 05 29 00-0720	EA	1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	75.79	11.04
		<i>For Work In Restricted Working Space, Add</i>	6.60	
23 05 29 00-0721	EA	1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	79.97	11.70
		<i>For Work In Restricted Working Space, Add</i>	7.05	
23 05 29 00-0722	EA	1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	85.06	12.48
		<i>For Work In Restricted Working Space, Add</i>	7.49	
23 05 29 00-0723	EA	5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	84.69	10.03
		<i>For Work In Restricted Working Space, Add</i>	6.05	
23 05 29 00-0724	EA	5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	86.97	10.36
		<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0725	EA	5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	89.29	10.59
		<i>For Work In Restricted Working Space, Add</i>	6.36	
23 05 29 00-0726	EA	5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	90.96	11.04
		<i>For Work In Restricted Working Space, Add</i>	6.59	
23 05 29 00-0727	EA	5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	94.43	11.37
		<i>For Work In Restricted Working Space, Add</i>	6.82	
23 05 29 00-0728	EA	5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	100.46	12.15
		<i>For Work In Restricted Working Space, Add</i>	7.28	
23 05 29 00-0729	EA	5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	106.47	12.93
		<i>For Work In Restricted Working Space, Add</i>	7.74	
23 05 29 00-0730	EA	5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	111.60	13.71
		<i>For Work In Restricted Working Space, Add</i>	8.20	
23 05 29 00-0731	EA	3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	106.64	11.37
		<i>For Work In Restricted Working Space, Add</i>	6.85	
23 05 29 00-0732	EA	3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	109.89	11.70
		<i>For Work In Restricted Working Space, Add</i>	7.01	
23 05 29 00-0733	EA	3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	112.19	11.92
		<i>For Work In Restricted Working Space, Add</i>	7.16	
23 05 29 00-0734	EA	3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	115.68	12.37
		<i>For Work In Restricted Working Space, Add</i>	7.40	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0735 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	120.96	12.71
For Work In Restricted Working Space, Add	7.64	
23 05 29 00-0736 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	128.81	13.49
For Work In Restricted Working Space, Add	8.12	
23 05 29 00-0737 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	136.69	14.26
For Work In Restricted Working Space, Add	8.59	
23 05 29 00-0738 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	145.47	15.16
For Work In Restricted Working Space, Add	9.07	
23 05 29 00-0739 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	127.93	13.15
For Work In Restricted Working Space, Add	7.92	
23 05 29 00-0740 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	132.07	13.49
For Work In Restricted Working Space, Add	8.09	
23 05 29 00-0741 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	135.32	13.71
For Work In Restricted Working Space, Add	8.25	
23 05 29 00-0742 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	138.84	14.15
For Work In Restricted Working Space, Add	8.50	
23 05 29 00-0743 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	145.07	14.61
For Work In Restricted Working Space, Add	8.75	
23 05 29 00-0744 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	155.68	15.38
For Work In Restricted Working Space, Add	9.24	
23 05 29 00-0745 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	165.41	16.27
For Work In Restricted Working Space, Add	9.74	
23 05 29 00-0746 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	176.03	17.06
For Work In Restricted Working Space, Add	10.23	
23 05 29 00-0747 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	162.59	15.71
For Work In Restricted Working Space, Add	9.44	
23 05 29 00-0748 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	166.81	16.05
For Work In Restricted Working Space, Add	9.62	
23 05 29 00-0749 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	171.02	16.39
For Work In Restricted Working Space, Add	9.81	
23 05 29 00-0750 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	175.56	16.83
For Work In Restricted Working Space, Add	10.09	
23 05 29 00-0751 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	183.63	17.28
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0752 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	196.29	18.16
For Work In Restricted Working Space, Add	10.93	
23 05 29 00-0753 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	208.95	19.17
For Work In Restricted Working Space, Add	11.48	
23 05 29 00-0754 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	222.42	20.06
For Work In Restricted Working Space, Add	12.04	
23 05 29 00-0755 Attachments (23 05 29 00-0589)		
23 05 29 00-0756 Welded Beam Attachments (B-Line B-3083) (23 05 29 00-0755)		
Note: Type 22.		
23 05 29 00-0757 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	39.24	10.36
For Work In Restricted Working Space, Add	6.22	
23 05 29 00-0758 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	41.79	10.88
For Work In Restricted Working Space, Add	6.55	
23 05 29 00-0759 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	44.44	11.50
For Work In Restricted Working Space, Add	6.91	
23 05 29 00-0760 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	55.41	12.23
For Work In Restricted Working Space, Add	7.32	
23 05 29 00-0761 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	65.61	12.95
For Work In Restricted Working Space, Add	7.78	
23 05 29 00-0762 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	90.21	14.82
For Work In Restricted Working Space, Add	8.89	
23 05 29 00-0763 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	124.92	15.54
For Work In Restricted Working Space, Add	9.33	
23 05 29 00-0764 C-Clamp Style Beam Clamps (B-Line B-3034) (23 05 29 00-0755)		
Note: Type 23. Top or bottom flange mount.		
23 05 29 00-0765 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	16.20	5.69
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0766 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	18.78	7.25
For Work In Restricted Working Space, Add	4.46	
23 05 29 00-0767 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	21.02	7.80
For Work In Restricted Working Space, Add	4.78	
23 05 29 00-0768 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	26.00	8.36
For Work In Restricted Working Space, Add	5.15	
23 05 29 00-0769 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	35.77	8.92
For Work In Restricted Working Space, Add	5.57	
23 05 29 00-0770 Bottom Mount I-Beam Clamps (B-Line B-3055) (23 05 29 00-0755)		
Note: Type 21. For attaching threaded rod centered under beam flanges.		
23 05 29 00-0771 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	38.46	7.80
For Work In Restricted Working Space, Add	5.57	
23 05 29 00-0772 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	54.35	10.03
For Work In Restricted Working Space, Add	6.08	
23 05 29 00-0773 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	75.58	11.15
For Work In Restricted Working Space, Add	6.69	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0774	EA	3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	89.87	12.26
		<i>For Work In Restricted Working Space, Add</i>	7.43	
23 05 29 00-0775	EA	1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	207.61	13.38
		<i>For Work In Restricted Working Space, Add</i>	8.36	
23 05 29 00-0776 Steel U-Bolts (B-Line B-3188) (23 05 29 00-0755)				
Note: Type 24. Includes plate and nuts.				
23 05 29 00-0777	EA	1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)	13.13	2.78
		<i>For Work In Restricted Working Space, Add</i>	3.34	
23 05 29 00-0778	EA	3/4" Pipe Size, Steel U-Bolt (B-Line B-3188)	14.14	3.35
		<i>For Work In Restricted Working Space, Add</i>	3.52	
23 05 29 00-0779	EA	1" Pipe Size, Steel U-Bolt (B-Line B-3188)	15.14	3.35
		<i>For Work In Restricted Working Space, Add</i>	3.71	
23 05 29 00-0780	EA	1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188)	16.92	3.35
		<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0781	EA	1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)	17.59	3.90
		<i>For Work In Restricted Working Space, Add</i>	4.18	
23 05 29 00-0782	EA	2" Pipe Size, Steel U-Bolt (B-Line B-3188)	18.80	3.90
		<i>For Work In Restricted Working Space, Add</i>	4.46	
23 05 29 00-0783	EA	2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)	25.39	3.90
		<i>For Work In Restricted Working Space, Add</i>	4.78	
23 05 29 00-0784	EA	3" Pipe Size, Steel U-Bolt (B-Line B-3188)	27.86	4.46
		<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0785	EA	4" Pipe Size, Steel U-Bolt (B-Line B-3188)	33.00	5.01
		<i>For Work In Restricted Working Space, Add</i>	5.57	
23 05 29 00-0786 Copper Standoff Brackets With Flange (23 05 29 00-0755)				
Note: Installed in wood, concrete, concrete block or steel.				
23 05 29 00-0787	EA	Clamp Size 1/2", Copper Standoff Brackets With Flange	33.38	15.94
		<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0788	EA	Clamp Size 3/4", Copper Standoff Brackets With Flange	33.47	15.94
		<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0789	EA	Clamp Size 1", Copper Standoff Brackets With Flange	33.56	15.94
		<i>For Work In Restricted Working Space, Add</i>	9.56	
23 05 29 00-0790	EA	Clamp Size 1 1/4", Copper Standoff Brackets With Flange	35.68	16.94
		<i>For Work In Restricted Working Space, Add</i>	10.13	
23 05 29 00-0791	EA	Clamp Size 1 1/2", Copper Standoff Brackets With Flange	35.87	16.94
		<i>For Work In Restricted Working Space, Add</i>	10.13	
23 05 29 00-0792 Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0755)				
Note: Type 16.				
23 05 29 00-0793	EA	3/8" Rod Size, Malleable Iron Eye Socket	8.39	1.67
		<i>For Work In Restricted Working Space, Add</i>	1.01	
23 05 29 00-0794	EA	1/2" Rod Size, Malleable Iron Eye Socket	10.75	2.23
		<i>For Work In Restricted Working Space, Add</i>	1.34	
23 05 29 00-0795	EA	5/8" Rod Size, Malleable Iron Eye Socket	17.41	2.23
		<i>For Work In Restricted Working Space, Add</i>	1.35	
23 05 29 00-0796	EA	3/4" Rod Size, Malleable Iron Eye Socket	23.93	2.23
		<i>For Work In Restricted Working Space, Add</i>	1.34	
23 05 29 00-0797	EA	7/8" Rod Size, Malleable Iron Eye Socket	26.08	2.78
		<i>For Work In Restricted Working Space, Add</i>	1.67	
23 05 29 00-0798 Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0755)				
Note: Type 17.				
23 05 29 00-0799	EA	3/8" Rod Size, Steel Weldless Eye Nut.....	24.79	1.67
		<i>For Work In Restricted Working Space, Add</i>	1.01	
23 05 29 00-0800	EA	1/2" Rod Size, Steel Weldless Eye Nut.....	25.87	2.23
		<i>For Work In Restricted Working Space, Add</i>	1.34	
23 05 29 00-0801	EA	5/8" Rod Size, Steel Weldless Eye Nut.....	25.91	2.23
		<i>For Work In Restricted Working Space, Add</i>	1.35	
23 05 29 00-0802	EA	3/4" Rod Size, Steel Weldless Eye Nut.....	25.87	2.23
		<i>For Work In Restricted Working Space, Add</i>	1.34	
23 05 29 00-0803	EA	7/8" Rod Size, Steel Weldless Eye Nut.....	49.21	2.45
		<i>For Work In Restricted Working Space, Add</i>	1.51	
23 05 29 00-0804	EA	1" Rod Size, Steel Weldless Eye Nut.....	49.76	2.78
		<i>For Work In Restricted Working Space, Add</i>	1.67	
23 05 29 00-0805 Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0755)				
Note: For attaching threaded rod to either side of an I-beam.				
23 05 29 00-0806	EA	3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	19.45	5.18
		<i>For Work In Restricted Working Space, Add</i>	3.11	
23 05 29 00-0807	EA	1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	23.07	5.70
		<i>For Work In Restricted Working Space, Add</i>	3.43	
23 05 29 00-0808	EA	5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	27.53	6.22
		<i>For Work In Restricted Working Space, Add</i>	3.77	
23 05 29 00-0809	EA	3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	36.50	6.74
		<i>For Work In Restricted Working Space, Add</i>	3.96	
23 05 29 00-0810	EA	7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp	54.46	7.77
		<i>For Work In Restricted Working Space, Add</i>	4.66	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0811	EA	3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	20.30 3.11	5.18
23 05 29 00-0812	EA	1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	24.26 3.43	5.70
23 05 29 00-0813	EA	5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	27.53 3.77	6.22
23 05 29 00-0814	EA	3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	39.63 3.96	6.74
23 05 29 00-0815	EA	7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	59.82 4.66	7.77
23 05 29 00-0816	EA	3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	22.26 3.11	5.18
23 05 29 00-0817	EA	1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	26.47 3.43	5.70
23 05 29 00-0818	EA	5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	32.70 3.77	6.22
23 05 29 00-0819	EA	3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.50 3.96	6.74
23 05 29 00-0820	EA	7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	71.29 4.66	7.77
23 05 29 00-0821 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0755)				
Note: Type 34.				
23 05 29 00-0822	EA	3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	17.59 4.18	7.25
23 05 29 00-0823	EA	1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	20.29 4.46	7.25
23 05 29 00-0824	EA	5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	25.19 4.78	7.80
23 05 29 00-0825	EA	3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	41.12 5.15	8.36
23 05 29 00-0826	EA	7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	47.65 5.57	9.48
23 05 29 00-0827 Hex Lag Bolts (23 05 29 00-0755)				
Note: Also known as coach screws.				
23 05 29 00-0828	EA	3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	2.75 0.70	
23 05 29 00-0829	EA	3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	2.81 0.72	
23 05 29 00-0830	EA	3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.09 0.75	
23 05 29 00-0831	EA	3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.56 0.77	
23 05 29 00-0832	EA	3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.77 0.80	
23 05 29 00-0833	EA	3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.52 0.83	
23 05 29 00-0834	EA	1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.62 0.83	
23 05 29 00-0835	EA	1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.70 0.87	
23 05 29 00-0836	EA	1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.17 0.91	
23 05 29 00-0837	EA	1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.71 0.95	
23 05 29 00-0838	EA	1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.40 1.00	
23 05 29 00-0839	EA	1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.76 1.05	
23 05 29 00-0840	EA	5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.73 0.93	
23 05 29 00-0841	EA	3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.36 0.95	
23 05 29 00-0842 Shields And Saddles (23 05 29)				
23 05 29 00-0843 Insulation Protection Shield (23 05 29 00-0842)				
Note: Type 40.				
23 05 29 00-0844 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0843)				
Note: Type 40.				
23 05 29 00-0845	EA	1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length <i>For Work In Restricted Working Space, Add</i>	14.46 2.68	2.67
23 05 29 00-0846	EA	2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length <i>For Work In Restricted Working Space, Add</i>	14.67 2.71	2.70
23 05 29 00-0847	EA	2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length <i>For Work In Restricted Working Space, Add</i>	15.01 2.74	2.74
23 05 29 00-0848	EA	3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length <i>For Work In Restricted Working Space, Add</i>	15.65 2.78	2.77
23 05 29 00-0849	EA	4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length <i>For Work In Restricted Working Space, Add</i>	17.19 2.84	2.84

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0850	EA	6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length	20.64	2.91
		<i>For Work In Restricted Working Space, Add</i>	2.91	
23 05 29 00-0851	EA	8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length	23.76	2.98
		<i>For Work In Restricted Working Space, Add</i>	2.98	
23 05 29 00-0852	EA	10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length	28.68	3.05
		<i>For Work In Restricted Working Space, Add</i>	3.04	
23 05 29 00-0853	EA	12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length	36.33	3.08
		<i>For Work In Restricted Working Space, Add</i>	3.08	
23 05 29 00-0854	EA	14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length	39.42	3.11
		<i>For Work In Restricted Working Space, Add</i>	3.11	
23 05 29 00-0855	EA	16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length	53.59	3.15
		<i>For Work In Restricted Working Space, Add</i>	3.14	
23 05 29 00-0856	EA	18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length	60.00	3.18
		<i>For Work In Restricted Working Space, Add</i>	3.18	
23 05 29 00-0857	EA	20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length	109.71	3.21
		<i>For Work In Restricted Working Space, Add</i>	3.21	
23 05 29 00-0858	EA	24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length	119.13	3.28
		<i>For Work In Restricted Working Space, Add</i>	3.28	
23 05 29 00-0859	EA	30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length	143.61	3.35
		<i>For Work In Restricted Working Space, Add</i>	3.35	
23 05 29 00-0860 Insulation Protection Shield (Cooper B-Line B3154) (23 05 29 00-0843)				
Note: Type 40.				
23 05 29 00-0861	EA	1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length	12.94	2.67
		<i>For Work In Restricted Working Space, Add</i>	2.68	
23 05 29 00-0862	EA	2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length	13.12	2.70
		<i>For Work In Restricted Working Space, Add</i>	2.71	
23 05 29 00-0863	EA	2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length	13.40	2.74
		<i>For Work In Restricted Working Space, Add</i>	2.74	
23 05 29 00-0864	EA	3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length	13.89	2.77
		<i>For Work In Restricted Working Space, Add</i>	2.78	
23 05 29 00-0865	EA	4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length	15.07	2.84
		<i>For Work In Restricted Working Space, Add</i>	2.84	
23 05 29 00-0866	EA	6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length	17.63	2.91
		<i>For Work In Restricted Working Space, Add</i>	2.91	
23 05 29 00-0867	EA	8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length	18.86	2.98
		<i>For Work In Restricted Working Space, Add</i>	2.98	
23 05 29 00-0868	EA	10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length	23.58	3.05
		<i>For Work In Restricted Working Space, Add</i>	3.04	
23 05 29 00-0869	EA	12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length	27.96	3.08
		<i>For Work In Restricted Working Space, Add</i>	3.08	
23 05 29 00-0870 Pipe Covering Protection Saddle (23 05 29 00-0842)				
Note: Type 39, sizes are pipe sizes.				
23 05 29 00-0871 Saddle, For 1" Insulation (Cooper B-Line B3160) (23 05 29 00-0870)				
Note: Type 39.				
23 05 29 00-0872	EA	3/4" Pipe Saddle, Type 39 (For 1" Insulation)	21.91	3.67
		<i>For Work In Restricted Working Space, Add</i>	3.67	
23 05 29 00-0873	EA	1" Pipe Saddle, Type 39 (For 1" Insulation)	22.01	3.70
		<i>For Work In Restricted Working Space, Add</i>	3.70	
23 05 29 00-0874	EA	1-1/4" Pipe Saddle, Type 39 (For 1" Insulation)	22.12	3.73
		<i>For Work In Restricted Working Space, Add</i>	3.73	
23 05 29 00-0875	EA	1-1/2" Pipe Saddle, Type 39 (For 1" Insulation)	23.15	3.79
		<i>For Work In Restricted Working Space, Add</i>	3.80	
23 05 29 00-0876	EA	2" Pipe Saddle, Type 39 (For 1" Insulation)	23.25	3.82
		<i>For Work In Restricted Working Space, Add</i>	3.83	
23 05 29 00-0877	EA	2-1/2" Pipe Saddle, Type 39 (For 1" Insulation)	23.98	3.89
		<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0878	EA	3" Pipe Saddle, Type 39 (For 1" Insulation)	26.49	3.95
		<i>For Work In Restricted Working Space, Add</i>	3.95	
23 05 29 00-0879	EA	4" Pipe Saddle, Type 39 (For 1" Insulation)	29.51	4.01
		<i>For Work In Restricted Working Space, Add</i>	4.01	
23 05 29 00-0880	EA	6" Pipe Saddle, Type 39 (For 1" Insulation)	32.98	4.13
		<i>For Work In Restricted Working Space, Add</i>	4.14	
23 05 29 00-0881	EA	8" Pipe Saddle, Type 39 (For 1" Insulation)	39.76	4.29
		<i>For Work In Restricted Working Space, Add</i>	4.29	
23 05 29 00-0882	EA	10" Pipe Saddle, Type 39 (For 1" Insulation)	44.21	4.35
		<i>For Work In Restricted Working Space, Add</i>	4.35	
23 05 29 00-0883	EA	12" Pipe Saddle, Type 39 (For 1" Insulation)	52.04	4.35
		<i>For Work In Restricted Working Space, Add</i>	4.45	
23 05 29 00-0884	EA	14" Pipe Saddle, Type 39 (For 1" Insulation)	56.64	4.51
		<i>For Work In Restricted Working Space, Add</i>	4.51	
23 05 29 00-0885 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) (23 05 29 00-0870)				
Note: Type 39.				
23 05 29 00-0886	EA	3/4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)	24.49	3.67
		<i>For Work In Restricted Working Space, Add</i>	3.67	
23 05 29 00-0887	EA	1" Pipe Saddle, Type 39 (For 1-1/2" Insulation)	24.59	3.70
		<i>For Work In Restricted Working Space, Add</i>	3.70	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0888 EA 1-1/4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	24.70 3.73	3.73
23 05 29 00-0889 EA 1-1/2" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	25.56 3.80	3.79
23 05 29 00-0890 EA 2" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	27.45 3.83	3.82
23 05 29 00-0891 EA 2-1/2" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.44 3.89	3.89
23 05 29 00-0892 EA 3" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.95 3.95	3.95
23 05 29 00-0893 EA 4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	33.76 4.01	3.95
23 05 29 00-0894 EA 6" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	37.80 4.14	4.13
23 05 29 00-0895 EA 8" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	44.48 4.29	4.29
23 05 29 00-0896 EA 10" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	49.80 4.35	4.35
23 05 29 00-0897 EA 12" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	58.93 4.45	4.45
23 05 29 00-0898 EA 14" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	64.37 4.51	4.51
23 05 29 00-0899 Saddle, For 2" Insulation (Cooper B-Line B3162) (23 05 29 00-0870) Note: Type 39.		
23 05 29 00-0900 EA 3/4" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	26.17 3.86	3.86
23 05 29 00-0901 EA 1" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	26.27 3.89	3.89
23 05 29 00-0902 EA 1-1/4" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	27.59 3.92	3.92
23 05 29 00-0903 EA 1-1/2" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	28.40 3.98	3.98
23 05 29 00-0904 EA 2" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.10 4.01	4.01
23 05 29 00-0905 EA 2-1/2" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.30 4.07	4.08
23 05 29 00-0906 EA 3" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	30.91 4.14	4.15
23 05 29 00-0907 EA 4" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	32.49 4.20	4.21
23 05 29 00-0908 EA 6" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	40.99 4.35	4.34
23 05 29 00-0909 EA 8" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	46.28 4.51	4.51
23 05 29 00-0910 EA 10" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	48.52 4.57	4.57
23 05 29 00-0911 EA 12" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	64.81 4.66	4.66
23 05 29 00-0912 EA 14" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	71.59 4.73	4.73
23 05 29 00-0913 EA 16" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	78.57 4.85	4.85
23 05 29 00-0914 EA 18" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	85.54 4.97	4.98
23 05 29 00-0915 EA 20" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	93.66 5.10	5.10
23 05 29 00-0916 EA 24" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	106.99 5.22	5.22
23 05 29 00-0917 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) (23 05 29 00-0870) Note: Type 39.		
23 05 29 00-0918 EA 1-1/4" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.19 4.01	4.01
23 05 29 00-0919 EA 1-1/2" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	30.74 4.07	4.07
23 05 29 00-0920 EA 2" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	31.54 4.11	4.11
23 05 29 00-0921 EA 2-1/2" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	32.42 4.17	4.18
23 05 29 00-0922 EA 3" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	32.73 4.26	4.25
23 05 29 00-0923 EA 4" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	37.79 4.32	4.31
23 05 29 00-0924 EA 6" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	43.05 4.45	4.45
23 05 29 00-0925 EA 8" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	49.92 4.60	4.61
23 05 29 00-0926 EA 10" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	53.42 4.70	4.68
23 05 29 00-0927 EA 12" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	66.49 4.79	4.78

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0928 EA 14" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	78.63	4.85
For Work In Restricted Working Space, Add	4.85	
23 05 29 00-0929 EA 16" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	90.95	4.97
For Work In Restricted Working Space, Add	4.97	
23 05 29 00-0930 EA 18" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	96.55	5.09
For Work In Restricted Working Space, Add	5.10	
23 05 29 00-0931 EA 20" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	102.77	5.22
For Work In Restricted Working Space, Add	5.22	
23 05 29 00-0932 EA 24" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	109.00	5.34
For Work In Restricted Working Space, Add	5.35	
23 05 29 00-0933 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0870)		
Note: Type 39.		
23 05 29 00-0934 EA 2" Pipe Saddle, Type 39 (For 3" Insulation).....	32.60	4.21
For Work In Restricted Working Space, Add	4.20	
23 05 29 00-0935 EA 2-1/2" Pipe Saddle, Type 39 (For 3" Insulation).....	35.47	4.28
For Work In Restricted Working Space, Add	4.29	
23 05 29 00-0936 EA 3" Pipe Saddle, Type 39 (For 3" Insulation).....	36.96	4.34
For Work In Restricted Working Space, Add	4.35	
23 05 29 00-0937 EA 4" Pipe Saddle, Type 39 (For 3" Insulation).....	38.44	4.42
For Work In Restricted Working Space, Add	4.42	
23 05 29 00-0938 EA 6" Pipe Saddle, Type 39 (For 3" Insulation).....	43.99	4.55
For Work In Restricted Working Space, Add	4.54	
23 05 29 00-0939 EA 8" Pipe Saddle, Type 39 (For 3" Insulation).....	54.85	4.71
For Work In Restricted Working Space, Add	4.73	
23 05 29 00-0940 EA 10" Pipe Saddle, Type 39 (For 3" Insulation).....	59.33	4.79
For Work In Restricted Working Space, Add	4.79	
23 05 29 00-0941 EA 12" Pipe Saddle, Type 39 (For 3" Insulation).....	76.80	4.90
For Work In Restricted Working Space, Add	4.88	
23 05 29 00-0942 EA 14" Pipe Saddle, Type 39 (For 3" Insulation).....	91.42	4.97
For Work In Restricted Working Space, Add	4.97	
23 05 29 00-0943 EA 16" Pipe Saddle, Type 39 (For 3" Insulation).....	106.07	5.08
For Work In Restricted Working Space, Add	5.07	
23 05 29 00-0944 EA 18" Pipe Saddle, Type 39 (For 3" Insulation).....	108.11	5.21
For Work In Restricted Working Space, Add	5.22	
23 05 29 00-0945 EA 20" Pipe Saddle, Type 39 (For 3" Insulation).....	110.07	5.33
For Work In Restricted Working Space, Add	5.35	
23 05 29 00-0946 EA 24" Pipe Saddle, Type 39 (For 3" Insulation).....	139.33	5.48
For Work In Restricted Working Space, Add	5.48	
23 05 29 00-0947 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0870)		
Note: Type 39.		
23 05 29 00-0948 EA 2" Pipe Saddle, Type 39 (For 4" Insulation).....	36.62	4.30
For Work In Restricted Working Space, Add	4.29	
23 05 29 00-0949 EA 2-1/2" Pipe Saddle, Type 39 (For 4" Insulation).....	40.02	4.38
For Work In Restricted Working Space, Add	4.39	
23 05 29 00-0950 EA 3" Pipe Saddle, Type 39 (For 4" Insulation).....	41.75	4.45
For Work In Restricted Working Space, Add	4.45	
23 05 29 00-0951 EA 4" Pipe Saddle, Type 39 (For 4" Insulation).....	43.58	4.51
For Work In Restricted Working Space, Add	4.51	
23 05 29 00-0952 EA 6" Pipe Saddle, Type 39 (For 4" Insulation).....	52.94	4.65
For Work In Restricted Working Space, Add	4.66	
23 05 29 00-0953 EA 8" Pipe Saddle, Type 39 (For 4" Insulation).....	62.30	4.83
For Work In Restricted Working Space, Add	4.82	
23 05 29 00-0954 EA 10" Pipe Saddle, Type 39 (For 4" Insulation).....	64.39	4.91
For Work In Restricted Working Space, Add	4.91	
23 05 29 00-0955 EA 12" Pipe Saddle, Type 39 (For 4" Insulation).....	81.97	5.01
For Work In Restricted Working Space, Add	5.01	
23 05 29 00-0956 EA 14" Pipe Saddle, Type 39 (For 4" Insulation).....	99.23	5.07
For Work In Restricted Working Space, Add	5.07	
23 05 29 00-0957 EA 16" Pipe Saddle, Type 39 (For 4" Insulation).....	116.69	5.20
For Work In Restricted Working Space, Add	5.19	
23 05 29 00-0958 EA 18" Pipe Saddle, Type 39 (For 4" Insulation).....	142.44	5.32
For Work In Restricted Working Space, Add	5.32	
23 05 29 00-0959 EA 20" Pipe Saddle, Type 39 (For 4" Insulation).....	168.07	5.47
For Work In Restricted Working Space, Add	5.48	
23 05 29 00-0960 EA 24" Pipe Saddle, Type 39 (For 4" Insulation).....	179.71	5.60
For Work In Restricted Working Space, Add	5.60	
23 05 29 00-0961 EA 30" Pipe Saddle, Type 39 (For 4" Insulation).....	189.09	5.74
For Work In Restricted Working Space, Add	5.75	
23 05 29 00-0962 EA 36" Pipe Saddle, Type 39 (For 4" Insulation).....	196.05	5.88
For Work In Restricted Working Space, Add	5.88	
23 05 29 00-0963 Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0842)		
Note: Type 38.		
23 05 29 00-0964 EA 2" Adjustable Pipe Saddle Support, Type 38.....	82.28	13.93
23 05 29 00-0965 EA 3" Adjustable Pipe Saddle Support, Type 38.....	87.53	16.16
23 05 29 00-0966 EA 4" Adjustable Pipe Saddle Support, Type 38.....	106.15	18.40
23 05 29 00-0967 EA 5" Adjustable Pipe Saddle Support, Type 38.....	110.89	20.06
23 05 29 00-0968 EA 6" Adjustable Pipe Saddle Support, Type 38.....	123.04	22.30
23 05 29 00-0969 EA 8" Adjustable Pipe Saddle Support, Type 38.....	140.62	27.87

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0970 EA 10" Adjustable Pipe Saddle Support, Type 38	184.09	37.34
23 05 29 00-0971 EA 12" Adjustable Pipe Saddle Support, Type 38	230.34	55.73
23 05 29 00-0972 Pipe Stanchion Support (Cooper B-Line B3090) (23 05 29 00-0842)		
Note: Type 37.		
23 05 29 00-0973 EA 2-1/2" Pipe Stanchion Support With U-Bolt, Type 37	100.87	13.93
23 05 29 00-0974 EA 3" Pipe Stanchion Support With U-Bolt, Type 37	104.85	16.16
23 05 29 00-0975 EA 3-1/2" Pipe Stanchion Support With U-Bolt, Type 37	112.40	17.28
23 05 29 00-0976 EA 4" Pipe Stanchion Support With U-Bolt, Type 37	115.00	18.40
23 05 29 00-0977 EA 5" Pipe Stanchion Support With U-Bolt, Type 37	121.08	20.06
23 05 29 00-0978 EA 6" Pipe Stanchion Support With U-Bolt, Type 37	128.65	22.30
23 05 29 00-0979 EA 8" Pipe Stanchion Support With U-Bolt, Type 37	163.24	27.87
23 05 29 00-0980 EA 10" Pipe Stanchion Support With U-Bolt, Type 37	220.09	37.34
23 05 29 00-0981 EA 12" Pipe Stanchion Support With U-Bolt, Type 37	289.94	55.73
23 05 29 00-0982 Pipe Saddle Support (Cooper B-Line B3095) (23 05 29 00-0842)		
Note: Type 36.		
23 05 29 00-0983 EA 2-1/2" Pipe Saddle Support, Type 36	53.74	13.93
23 05 29 00-0984 EA 3" Pipe Saddle Support, Type 36	57.72	16.16
23 05 29 00-0985 EA 3-1/2" Pipe Saddle Support, Type 36	85.07	17.28
23 05 29 00-0986 EA 4" Pipe Saddle Support, Type 36	87.67	18.40
23 05 29 00-0987 EA 5" Pipe Saddle Support, Type 36	96.30	20.06
23 05 29 00-0988 EA 6" Pipe Saddle Support, Type 36	106.75	22.30
23 05 29 00-0989 EA 8" Pipe Saddle Support, Type 36	123.12	27.87
23 05 29 00-0990 EA 10" Pipe Saddle Support, Type 36	144.97	37.34
23 05 29 00-0991 EA 12" Pipe Saddle Support, Type 36	185.67	55.73
23 05 29 00-0992 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0842)		
Note: Insert is for use as isolated protective insulation at hangers.		
23 05 29 00-0993 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		
23 05 29 00-0994 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.27	7.07
23 05 29 00-0995 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.45	7.07
23 05 29 00-0996 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.50	7.07
23 05 29 00-0997 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.69	7.07
23 05 29 00-0998 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	16.79	7.50
23 05 29 00-0999 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.48	7.72
23 05 29 00-1000 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.27	8.04
23 05 29 00-1001 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.15	8.37
23 05 29 00-1002 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.52	8.69
23 05 29 00-1003 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.51	7.50
23 05 29 00-1004 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.35	9.78
23 05 29 00-1005 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	35.82	11.52
23 05 29 00-1006 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	41.03	13.37
23 05 29 00-1007 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	45.30	13.80
23 05 29 00-1008 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		
23 05 29 00-1009 EA 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	12.63	5.33
23 05 29 00-1010 EA 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	13.56	5.33
23 05 29 00-1011 EA 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	13.83	5.44
23 05 29 00-1012 EA 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	14.23	5.55
23 05 29 00-1013 EA 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	14.60	5.55
23 05 29 00-1014 EA 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.27	5.76
23 05 29 00-1015 EA 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	16.07	5.98
23 05 29 00-1016 EA 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	16.51	6.09
23 05 29 00-1017 EA 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.07	6.63
23 05 29 00-1018 EA 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.08	11.41
23 05 29 00-1019 EA 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.11	8.58
23 05 29 00-1020 EA 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.01	10.11
23 05 29 00-1021 EA 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	33.08	11.63
23 05 29 00-1022 EA 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.23	14.02
23 05 29 00-1023 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		
23 05 29 00-1024 EA 1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	16.61	6.09
23 05 29 00-1025 EA 3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	16.76	6.09
23 05 29 00-1026 EA 1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.24	6.19
23 05 29 00-1027 EA 1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.66	6.30
23 05 29 00-1028 EA 1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.11	6.41
23 05 29 00-1029 EA 2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.80	6.63
23 05 29 00-1030 EA 2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.71	6.84
23 05 29 00-1031 EA 3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.59	7.07
23 05 29 00-1032 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.43	7.50

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1033 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.61	8.47
23 05 29 00-1034 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.77	14.45
23 05 29 00-1035 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	45.22	16.73
23 05 29 00-1036 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.51	19.78
23 05 29 00-1037 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	58.91	22.17
23 05 29 00-1038 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	65.95	25.00
23 05 29 00-1039 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	76.08	29.35
23 05 29 00-1040 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	84.50	32.60
23 05 29 00-1041 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	95.54	36.96
23 05 29 00-1042 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		
23 05 29 00-1043 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.07	7.07
23 05 29 00-1044 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.24	7.07
23 05 29 00-1045 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.83	7.18
23 05 29 00-1046 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	20.25	7.29
23 05 29 00-1047 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	20.68	7.29
23 05 29 00-1048 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.54	7.61
23 05 29 00-1049 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.57	7.83
23 05 29 00-1050 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.57	8.15
23 05 29 00-1051 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.65	8.58
23 05 29 00-1052 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.33	9.78
23 05 29 00-1053 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.03	10.86
23 05 29 00-1054 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.78	12.50
23 05 29 00-1055 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	51.08	15.54
23 05 29 00-1056 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	57.15	17.07
23 05 29 00-1057 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	68.97	21.74
23 05 29 00-1058 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	73.62	22.83
23 05 29 00-1059 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	83.74	26.08
23 05 29 00-1060 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.33	31.52
23 05 29 00-1061 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		
23 05 29 00-1062 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	31.23	7.29
23 05 29 00-1063 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.91	7.61
23 05 29 00-1064 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.13	7.61
23 05 29 00-1065 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.96	7.83
23 05 29 00-1066 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.94	8.04
23 05 29 00-1067 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.04	8.15
23 05 29 00-1068 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.08	8.37
23 05 29 00-1069 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.92	8.91
23 05 29 00-1070 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	49.21	9.24
23 05 29 00-1071 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	56.24	11.31
23 05 29 00-1072 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	71.03	12.39
23 05 29 00-1073 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	84.17	13.05
23 05 29 00-1074 EA 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	97.47	16.84
23 05 29 00-1075 EA 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	109.31	17.93
23 05 29 00-1076 EA 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	132.56	23.91
23 05 29 00-1077 EA 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	142.64	26.08
23 05 29 00-1078 EA 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	161.36	28.26
23 05 29 00-1079 EA 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	189.72	34.78
23 05 29 00-1080 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		
23 05 29 00-1081 EA 1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.07	7.07
23 05 29 00-1082 EA 3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.06	8.58
23 05 29 00-1083 EA 1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.83	8.58
23 05 29 00-1084 EA 1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.29	8.69
23 05 29 00-1085 EA 1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.90	8.80
23 05 29 00-1086 EA 2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.79	9.13
23 05 29 00-1087 EA 2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.06	9.46
23 05 29 00-1088 EA 3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.20	9.78
23 05 29 00-1089 EA 4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	30.81	10.32
23 05 29 00-1090 EA 6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.18	11.74
23 05 29 00-1091 EA 8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.40	13.05
23 05 29 00-1092 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.53	15.00
23 05 29 00-1093 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	61.29	18.69
23 05 29 00-1094 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	68.60	20.43
23 05 29 00-1095 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	82.77	26.08
23 05 29 00-1096 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	88.35	27.39
23 05 29 00-1097 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	100.54	31.30
23 05 29 00-1098 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	119.19	37.82
23 05 29 00-1099 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1100	EA		1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.70	9.57
23 05 29 00-1101	EA		3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.94	9.57
23 05 29 00-1102	EA		1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.76	9.67
23 05 29 00-1103	EA		1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.40	9.78
23 05 29 00-1104	EA		1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.82	9.78
23 05 29 00-1105	EA		2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.41	10.43
23 05 29 00-1106	EA		2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	30.43	10.54
23 05 29 00-1107	EA		3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	31.81	10.98
23 05 29 00-1108	EA		4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.64	11.63
23 05 29 00-1109	EA		6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.55	13.15
23 05 29 00-1110	EA		8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	49.13	14.24
23 05 29 00-1111	EA		10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	59.12	16.96
23 05 29 00-1112	EA		12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	68.96	21.09
23 05 29 00-1113	EA		14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.20	22.94
23 05 29 00-1114	EA		16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	93.18	29.35
23 05 29 00-1115	EA		18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.33	30.76
23 05 29 00-1116	EA		20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	112.11	35.22
23 05 29 00-1117	EA		24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	134.13	42.61
23 05 29 00-1118	EA		26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	154.19	50.10
23 05 29 00-1119	EA		28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	177.06	59.13
23 05 29 00-1120	EA		30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	202.55	69.88
23 05 29 00-1121	EA		42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	295.87	107.92
23 05 29 00-1122	EA		44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	320.56	118.80
23 05 29 00-1123	EA		46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	342.83	128.25
23 05 29 00-1124			Equipment Housekeeping Pads (23 05 29)		
23 05 29 00-1125			Molded Plastic Condenser Pad (23 05 29 00-1124)		
23 05 29 00-1126	EA		30" Round Molded Plastic Pad.....	58.43	13.93
23 05 29 00-1127	EA		30" Octagon Molded Plastic Pad.....	60.44	13.93
23 05 29 00-1128	EA		30" x 30" Molded Plastic Pad.....	58.43	13.93
23 05 29 00-1129	EA		36" x 36" Molded Plastic Pad.....	70.48	13.93
23 05 29 00-1130	EA		36" x 48" Molded Plastic Pad.....	93.03	13.93
23 05 29 00-1131			Inertia Base (23 05 29 00-1124)		
			Note: Includes spring isolators.		
23 05 29 00-1132	EA		Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	792.91	
23 05 29 00-1133	EA		>12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	953.89	
23 05 29 00-1134	EA		>16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	1,092.30	
23 05 29 00-1135	EA		>20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	1,245.77	
23 05 29 00-1136			Hanger Assemblies (23 05 29)		
			Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1137	EA		1/2" Standard Duty Clevis Pipe Hanger Assembly.....	45.18	17.32
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	11.15	
23 05 29 00-1138	EA		3/4" Standard Duty Clevis Pipe Hanger Assembly.....	47.23	18.35
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	11.76	
23 05 29 00-1139	EA		1" Standard Duty Clevis Pipe Hanger Assembly.....	48.77	19.39
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	12.21	
23 05 29 00-1140	EA		1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	49.63	19.42
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	12.39	
23 05 29 00-1141	EA		1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	49.84	19.42
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	12.39	
23 05 29 00-1142	EA		2" Standard Duty Clevis Pipe Hanger Assembly.....	50.87	19.57
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	12.57	
23 05 29 00-1143	EA		2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	54.96	19.72
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	12.05	
23 05 29 00-1144	EA		3" Standard Duty Clevis Pipe Hanger Assembly.....	56.65	20.28
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	12.23	
23 05 29 00-1145	EA		4" Standard Duty Clevis Pipe Hanger Assembly.....	67.18	22.89
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	13.51	
23 05 29 00-1146	EA		6" Standard Duty Clevis Pipe Hanger Assembly.....	97.76	29.59
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	17.75	
23 05 29 00-1147	EA		8" Standard Duty Clevis Pipe Hanger Assembly.....	114.24	34.32
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	20.59	
23 05 29 00-1148	EA		10" Standard Duty Clevis Pipe Hanger Assembly.....	156.54	43.59
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	25.83	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Hangers And Supports For HVAC Piping And Equipment 23 05 29****23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1149	EA	12" Standard Duty Clevis Pipe Hanger Assembly Note: Includes hanger, rod, nuts, washers and clamp. For Work In Restricted Working Space, Add	172.61 28.20	46.91
23 05 29 00-1150 Steel Shapes For Hanger Devices (23 05 29)				
23 05 29 00-1151 Angle Iron (23 05 29 00-1150)				
23 05 29 00-1152	LF	1/2" x 1/2" x 1/8" Angle Iron	2.42	1.62
23 05 29 00-1153	LF	3/4" x 3/4" x 1/8" Angle Iron	3.12	2.02
23 05 29 00-1154	LF	1" x 1" x 1/8" Angle Iron	3.80	2.42
23 05 29 00-1155	LF	1-1/4" x 1-1/4" x 3/16" Angle Iron	5.07	3.02
23 05 29 00-1156	LF	1-1/2" x 1-1/2" x 3/16" Angle Iron	5.58	3.23
23 05 29 00-1157	LF	2" x 2" x 1/4" Angle Iron	7.13	3.63
23 05 29 00-1158	LF	2-1/2" x 2-1/2" x 1/4" Angle Iron	8.81	4.42
23 05 29 00-1159	LF	3" x 2" x 3/8" Angle Iron	11.13	5.19
23 05 29 00-1160	LF	3" x 3" x 3/8" Angle Iron	13.21	6.06
23 05 29 00-1161 Channels (23 05 29 00-1150)				
23 05 29 00-1162	LF	C2 X 1.78 - 2" Wide (Channels)	6.26	3.75
23 05 29 00-1163	LF	C3 X 4.1 - 3" Wide (Channels)	10.12	5.40
23 05 29 00-1164	LF	C4 X 5.4 - 4" Wide (Channels)	12.49	6.47
23 05 29 00-1165	LF	C5 X 6.7 - 5" Wide (Channels)	14.85	7.55
23 05 29 00-1166	LF	C6 X 8.2 - 6" Wide (Channels)	17.95	9.07
23 05 29 00-1167	LF	C7 X 9.8 - 7" Wide (Channels)	21.38	10.79
23 05 29 00-1168	LF	C8 X 11.5 - 8" Wide (Channels)	24.03	11.88
23 05 29 00-1169 Structural Bar Tees (23 05 29 00-1150)				
23 05 29 00-1170	LF	3/4" x 3/4" x 1/8" Structural Bar Tee	7.66	5.27
23 05 29 00-1171	LF	1" x 1" x 1/8" Structural Bar Tee	9.21	6.24
23 05 29 00-1172	LF	1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	12.21	7.20
23 05 29 00-1173	LF	2" x 2" x 1/4" Structural Bar Tee	15.70	9.59
23 05 29 00-1174	LF	2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	20.69	11.51
23 05 29 00-1175	LF	3" x 3" x 3/8" Structural Bar Tee	26.08	14.88
23 05 29 00-1176 Structural Zees (23 05 29 00-1150)				
23 05 29 00-1177	LF	1-1/4" x 1-3/4" x 1-3/4" Structural Zee	12.22	7.20
23 05 29 00-1178	LF	2-11/16" x 3" x 2-11/16" Structural Zee	13.82	7.20
23 05 29 00-1179	LF	3-1/16" x 4" x 3-1/16" Structural Zee	19.65	7.20
23 05 29 00-1180	LF	3-1/4" x 5" x 3-1/4" Structural Zee	24.14	7.20
23 05 29 00-1181	LF	3-1/2" x 6" x 3-1/2" Structural Zee	28.52	7.20
23 05 29 00-1182 Junior I-beams (23 05 29 00-1150)				
23 05 29 00-1183	LF	3" I-beam (Junior)	15.97	10.56
23 05 29 00-1184	LF	4" I-beam (Junior)	18.06	11.51
23 05 29 00-1185	LF	5" I-beam (Junior)	20.43	12.48
23 05 29 00-1186	LF	6" I-beam (Junior)	22.26	13.91
23 05 29 00-1187	LF	7" I-beam (Junior)	25.57	14.88
23 05 29 00-1188	LF	8" I-beam (Junior)	27.59	15.83
23 05 33 Heat Tracing For HVAC Piping (23 05)				
See CSI section 23 83 13 00-0000 for heat tracing cables.				
23 05 48 Vibration And Seismic Controls For HVAC (23 05)				
23 05 48 00-0001 Unhoused Stable Steel Spring Isolators (23 05 48)				
Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.				
23 05 48 00-0002	EA	60 LB Unhoused Steel Spring Isolator	102.59	31.20
23 05 48 00-0003	EA	115 LB Unhoused Steel Spring Isolator	109.10	31.20
23 05 48 00-0004	EA	1,130 LB Unhoused Steel Spring Isolator	130.70	31.20
23 05 48 00-0005 Vibration Isolators (23 05 48)				
23 05 48 00-0006 Spring And Rubber Hanger For 1" Deflection (23 05 48 00-0005)				
23 05 48 00-0007	EA	50-500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size	135.74	20.06
23 05 48 00-0008	EA	600-1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size	285.65	22.30
23 05 48 00-0009 Rubber-In-Shear Isolator Hanger (23 05 48 00-0005)				
23 05 48 00-0010	EA	45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size	75.40	16.72
23 05 48 00-0011	EA	130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size	97.75	20.06
23 05 48 00-0012 Spring Hanger For 1" Deflection (23 05 48 00-0005)				

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 48 Vibration And Seismic Controls For HVAC**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 00-0013	EA	50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size.....	85.52	20.06
23 05 48 00-0014		Rubber-In-Shear Vibration Isolator (23 05 48 00-0005)		
23 05 48 00-0015	EA	45-340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection	157.35	37.90
23 05 48 00-0016	EA	130-700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection	215.00	37.90
23 05 48 00-0017	EA	550-1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection	412.84	37.90
23 05 48 00-0018		Two-Piece Spring Type Vibration Isolator (23 05 48 00-0005)		
Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.				
23 05 48 00-0019	EA	50 - 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator	133.06	37.90
23 05 48 00-0020	EA	>1,000 - 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator	137.35	37.90
23 05 48 00-0021		Open Double Spring Type Vibration Isolator (23 05 48 00-0005)		
Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.				
23 05 48 00-0022	EA	150-450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	103.63	18.95
23 05 48 00-0023	EA	500-1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	103.63	18.95
23 05 48 00-0024	EA	1,100-1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	117.95	18.95
23 05 48 00-0025	EA	1,700-2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	117.95	18.95
23 05 48 00-0026	EA	2,500-3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	182.72	18.95
23 05 48 00-0027		Isolation Pads (23 05 48 00-0005)		
23 05 48 00-0028		Laminated Neoprene And Cork Isolation Pad (23 05 48 00-0027)		
23 05 48 00-0029	EA	2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad	6.78	2.78
23 05 48 00-0030	EA	3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad	8.70	2.90
23 05 48 00-0031	EA	4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad	10.89	3.01
23 05 48 00-0032	EA	12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad	43.27	3.46
23 05 48 00-0033	EA	18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad	82.86	3.90
23 05 48 00-0034		Neoprene And Steel Plate Isolation Pad (23 05 48 00-0027)		
23 05 48 00-0035	EA	6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	37.86	2.78
23 05 48 00-0036	EA	6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	41.40	2.78
23 05 48 00-0037		Neoprene Isolation Pad (23 05 48 00-0027)		
23 05 48 00-0038	EA	2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad	6.32	2.78
23 05 48 00-0039	EA	3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad	7.21	2.78
23 05 48 00-0040	EA	4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad	8.62	2.78
23 05 48 00-0041	EA	12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad	42.57	3.35
23 05 48 00-0042	EA	18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad	77.86	3.90
23 05 48 00-0043		Threaded Flexible Bronze Hose Connectors (23 05 48)		
Note: Includes hex threaded nipple ends.				
23 05 48 00-0044	EA	3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	72.96	17.83
23 05 48 00-0045	EA	1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	85.46	24.52
23 05 48 00-0046	EA	3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	104.91	30.10
23 05 48 00-0047	EA	1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	122.07	35.67
23 05 48 00-0048	EA	1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	139.96	46.81
23 05 48 00-0049	EA	1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	157.62	49.83
23 05 48 00-0050	EA	2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	211.07	59.08
23 05 48 00-0051	EA	2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	291.38	92.07
23 05 48 00-0052		Flanged Flexible Hose Connectors (23 05 48)		
23 05 48 00-0053		Flanged Flexible Molded Rubber Hose Connectors (23 05 48 00-0052)		
Note: With helical wire reinforcement 150 PSI.				
23 05 48 00-0054	EA	1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	221.30	83.60
23 05 48 00-0055	EA	2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	239.43	92.85
23 05 48 00-0056	EA	3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	539.05	275.88
23 05 48 00-0057	EA	4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	702.40	356.14
23 05 48 00-0058	EA	6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	869.66	352.54
23 05 48 00-0059	EA	8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,059.09	402.65
23 05 48 00-0060	EA	10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,374.80	479.17
23 05 48 00-0061	EA	12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	3,292.14	599.31

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Vibration And Seismic Controls For HVAC 23 05 48****23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 00-0062 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 00-0052)				
Note: With braided metal wire.				
23 05 48 00-0063	EA	1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	172.24	76.02
23 05 48 00-0064	EA	1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	167.09	104.55
23 05 48 00-0065	EA	1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	321.43	139.34
23 05 48 00-0066	EA	2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	416.97	209.00
23 05 48 00-0067	EA	2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	448.40	229.96
23 05 48 00-0068	EA	3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	521.00	278.44
23 05 48 00-0069	EA	4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	667.07	356.47
23 05 48 00-0070	EA	6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,235.77	493.56
23 05 48 00-0071	EA	8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,768.79	564.06
23 05 48 00-0072	EA	10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,727.24	652.25
23 05 48 00-0073	EA	12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,232.52	705.08
23 05 48 00-0074 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 00-0052)				
Note: 150 PSI.				
23 05 48 00-0075	EA	2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,069.96	229.96
23 05 48 00-0076	EA	3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,217.12	278.11
23 05 48 00-0077	EA	4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,718.88	356.47
23 05 48 00-0078	EA	6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,970.93	352.54
23 05 48 00-0079	EA	8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,595.54	402.65
23 05 48 00-0080 Flexible Hose Connectors Braided Metal Hose Type, Bronze (23 05 48)				
23 05 48 00-0081 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 00-0080)				
Note: MPT connection.				
23 05 48 00-0082	EA	1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	38.23	2.23
23 05 48 00-0083	EA	1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	45.70	2.23
23 05 48 00-0084	EA	1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	50.84	2.89
23 05 48 00-0085	EA	1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	61.86	2.89
23 05 48 00-0086	EA	3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	51.20	2.67
23 05 48 00-0087	EA	3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	61.87	2.67
23 05 48 00-0088	EA	3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	70.76	3.46
23 05 48 00-0089	EA	3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	87.38	3.46
23 05 48 00-0090	EA	1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	69.85	3.12
23 05 48 00-0091	EA	1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	76.40	3.12
23 05 48 00-0092	EA	1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	90.78	4.12
23 05 48 00-0093	EA	1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	115.08	4.12
23 05 48 00-0094	EA	1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	139.20	4.12
23 05 48 00-0095	EA	1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	163.39	4.12
23 05 48 00-0096	EA	1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	99.52	4.00
23 05 48 00-0097	EA	1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	109.72	4.00
23 05 48 00-0098	EA	1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	140.81	4.00
23 05 48 00-0099	EA	1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	195.78	5.34
23 05 48 00-0100	EA	1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	227.10	5.34
23 05 48 00-0101	EA	1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	268.79	5.34
23 05 48 00-0102	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	136.27	4.83
23 05 48 00-0103	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	157.59	4.83
23 05 48 00-0104	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	198.87	4.83
23 05 48 00-0105	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	265.24	6.46
23 05 48 00-0106	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	328.16	6.46
23 05 48 00-0107	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	391.02	6.46
23 05 48 00-0108	EA	2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	189.24	6.05
23 05 48 00-0109	EA	2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	215.50	5.74
23 05 48 00-0110	EA	2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	242.02	5.74
23 05 48 00-0111	EA	2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	298.43	7.69
23 05 48 00-0112	EA	2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	351.76	7.69
23 05 48 00-0113	EA	2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	403.43	7.69
23 05 48 00-0114	EA	3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	298.46	7.69
23 05 48 00-0115	EA	3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	333.88	7.69
23 05 48 00-0116	EA	3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	277.49	7.69
23 05 48 00-0117	EA	3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	335.66	10.25
23 05 48 00-0118	EA	3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	517.11	10.25
23 05 48 00-0119	EA	3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	586.82	10.25
23 05 48 00-0120	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	545.16	8.46
23 05 48 00-0121	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	586.56	8.46
23 05 48 00-0122	EA	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	627.95	8.46
23 05 48 00-0123	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	717.66	11.28
23 05 48 00-0124	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	800.13	11.28
23 05 48 00-0125	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	884.36	11.28
23 05 48 00-0126 Braided Stainless Steel Flexible Hose Connectors (23 05 48 00-0080)				
Note: Over braided carbon steel connection.				
23 05 48 00-0127	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	162.34	4.88

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 48 Vibration And Seismic Controls For HVAC**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 00-0128	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	196.21	4.88
23 05 48 00-0129	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	229.44	4.88
23 05 48 00-0130	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	300.31	6.53
23 05 48 00-0131	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	367.66	6.53
23 05 48 00-0132	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	434.94	6.53
23 05 48 00-0133	EA	2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	184.07	5.74
23 05 48 00-0134	EA	2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	219.46	5.74
23 05 48 00-0135	EA	2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	255.02	5.74
23 05 48 00-0136	EA	2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	330.37	7.69
23 05 48 00-0137	EA	2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	401.19	7.69
23 05 48 00-0138	EA	2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	471.03	7.69
23 05 48 00-0139	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	195.26	7.69
23 05 48 00-0140	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	235.80	7.90
23 05 48 00-0141	FT	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	276.93	7.69
23 05 48 00-0142	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	366.76	10.25
23 05 48 00-0143	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	448.57	10.25
23 05 48 00-0144	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	532.70	10.25
23 05 48 00-0145	EA	6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	393.63	14.92
23 05 48 00-0146	EA	6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	581.15	15.03
23 05 48 00-0147	EA	6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	779.38	19.80
23 05 48 00-0148	EA	6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	966.97	19.80
23 05 48 00-0149	EA	6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,154.52	19.80
23 05 48 00-0150	EA	8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	680.36	16.98
23 05 48 00-0151	EA	8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	822.23	16.98
23 05 48 00-0152	EA	8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,114.92	22.08
23 05 48 00-0153	EA	8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,396.36	22.08
23 05 48 00-0154	EA	8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,677.73	22.08
23 05 48 00-0155	EA	10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	728.23	21.24
23 05 48 00-0156	EA	10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,082.92	21.24
23 05 48 00-0157	EA	10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,450.64	27.64
23 05 48 00-0158	EA	10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,806.58	27.64
23 05 48 00-0159	EA	10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,161.01	27.64
23 05 48 00-0160	EA	12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,447.97	25.67
23 05 48 00-0161	EA	12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,890.62	25.67
23 05 48 00-0162	EA	12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,364.81	34.53
23 05 48 00-0163	EA	12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,811.35	34.53
23 05 48 00-0164	EA	12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	3,259.98	34.53
23 05 48 00-0165		Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 00-0080) Note: Flanged end connection (carbon steel ends).		
23 05 48 00-0166	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	125.70	4.83
23 05 48 00-0167	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	175.38	4.83
23 05 48 00-0168	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	228.68	6.46

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Vibration And Seismic Controls For HVAC 23 05 48****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 00-0169 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	278.43	6.46
23 05 48 00-0170 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	328.19	6.46
23 05 48 00-0171 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	143.07	5.74
23 05 48 00-0172 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	195.50	5.74
23 05 48 00-0173 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	252.21	7.69
23 05 48 00-0174 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	304.67	7.69
23 05 48 00-0175 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	356.22	7.69
23 05 48 00-0176 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	177.55	7.69
23 05 48 00-0177 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	238.74	7.69
23 05 48 00-0178 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	306.62	10.25
23 05 48 00-0179 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	376.15	10.25
23 05 48 00-0180 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	429.28	10.25
23 05 48 00-0181 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	315.38	15.03
23 05 48 00-0182 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	454.03	15.03
23 05 48 00-0183 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	603.41	19.80
23 05 48 00-0184 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	742.08	19.80
23 05 48 00-0185 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	880.73	19.80
23 05 48 00-0186 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	573.23	16.98
23 05 48 00-0187 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	678.12	16.98
23 05 48 00-0188 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	898.41	22.55
23 05 48 00-0189 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,106.45	22.55
23 05 48 00-0190 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,314.39	22.55
23 05 48 00-0191 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,001.56	21.24
23 05 48 00-0192 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,262.88	21.24
23 05 48 00-0193 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,541.69	28.31
23 05 48 00-0194 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,804.21	28.31
23 05 48 00-0195 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	2,016.37	28.31
23 05 48 00-0196 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,386.49	25.67
23 05 48 00-0197 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	1,718.10	25.67
23 05 48 00-0198 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	2,069.31	34.53
23 05 48 00-0199 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	2,400.91	34.53
23 05 48 00-0200 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	2,732.52	34.53

23 05 53 Identification For HVAC Piping And Equipment (23 05)**23 05 53 00-0001 Systems Identification (23 05 53)****23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)**

Note: Outside diameters include insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....	11.62
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....	11.90
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....	12.05
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker.....	12.25
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker.....	13.26
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....	13.76
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker.....	17.89
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....	18.28
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker.....	18.71
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....	18.94
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker.....	19.18
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....	19.43

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 53 Identification For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....	20.13	
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....	20.40	
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....	23.25	
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....	24.65	
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....	28.88	
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....	32.96	
23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)		
Note: Stick on include arrow tape. Outside diameter includes insulation where necessary.		
23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	11.98	
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	12.54	
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	13.65	
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	13.88	
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	14.67	
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	15.01	
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	16.62	
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	17.06	
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	17.39	
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	17.74	
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	18.43	
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	19.18	
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	19.84	
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	20.49	
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	21.65	
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	23.54	
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	27.30	
23 05 53 00-0039 Valve Identification Tag (23 05 53 00-0001)		
Note: Includes beaded chain and/or "S" hook.		
23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass.....	10.23	
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic	9.85	
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass.....	9.73	
23 05 93 Testing, Adjusting, And Balancing For HVAC (23 05)		
Note: New systems include all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems.		
23 05 93 00-0001 Heating And Ventilating Equipment (23 05 93)		
23 05 93 00-0002 EA Balancing Centrifugal Fans.....	460.52	
For Testing Of Unit Without Balancing, Deduct	-230.26	
23 05 93 00-0003 EA Balancing Heating And Ventilating Units.....	575.42	
For Testing Of Unit Without Balancing, Deduct	-287.71	
23 05 93 00-0004 EA Balancing In Line Fan	518.09	
For Testing Of Unit Without Balancing, Deduct	-259.05	
23 05 93 00-0005 EA Balancing Propeller And Wall Fan	115.13	
For Testing Of Unit Without Balancing, Deduct	-57.57	
23 05 93 00-0006 EA Balancing Roof Exhaust Fan	345.37	
For Testing Of Unit Without Balancing, Deduct	-172.69	
23 05 93 00-0007 EA Balancing Wall Fan	86.33	
For Testing Of Unit Without Balancing, Deduct	-43.17	
23 05 93 00-0008 EA Balancing Fan Section Exhaust	459.79	
For Testing Of Unit Without Balancing, Deduct	-229.90	
23 05 93 00-0009 Air Conditioning Equipment (23 05 93)		
23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit.....	820.83	
For Testing Of Unit Without Balancing, Deduct	-410.42	
23 05 93 00-0011 EA Balancing Package A/C Unit.....	307.81	
For Testing Of Unit Without Balancing, Deduct	-153.91	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit.....	410.41	
For Testing Of Unit Without Balancing, Deduct	-205.21	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit.....	1,436.44	
For Testing Of Unit Without Balancing, Deduct	-718.22	
23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers (23 05 93)		
23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser	86.35	
For Testing Of Unit Without Balancing, Deduct	-43.18	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser.....	143.92	
For Testing Of Unit Without Balancing, Deduct	-71.96	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser	74.84	
For Testing Of Unit Without Balancing, Deduct	-37.42	
23 05 93 00-0018 EA Balance Variable Air Volume Box	81.08	
For Testing Of Unit Without Balancing, Deduct	-40.54	
23 05 93 00-0019 EA Balance Constant Volume Box	81.08	
For Testing Of Unit Without Balancing, Deduct	-40.54	
23 05 93 00-0020 EA Balance Fan Powered Box	92.11	
For Testing Of Unit Without Balancing, Deduct	-46.06	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Testing, Adjusting, And Balancing For HVAC 23 05 93****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0021 EA Balance Lab Fume Hood	374.19	
For Testing Of Unit Without Balancing, Deduct	-187.10	
23 05 93 00-0022 EA Balance General Hood	287.83	
For Testing Of Unit Without Balancing, Deduct	-143.92	
23 05 93 00-0023 EA Balance Induction Unit	172.70	
For Testing Of Unit Without Balancing, Deduct	-86.35	
23 05 93 00-0024 EA Balance Moduline - Master	69.06	
For Testing Of Unit Without Balancing, Deduct	-34.53	
23 05 93 00-0025 EA Balance Moduline - Slave	34.53	
For Testing Of Unit Without Balancing, Deduct	-17.27	
23 05 93 00-0026 EA Balance Dampers	32.07	
For Testing Of Unit Without Balancing, Deduct	-16.04	
23 05 93 00-0027 EA Balance Regenerators	459.79	
For Testing Of Unit Without Balancing, Deduct	-229.90	
23 05 93 00-0028 Water Balancing Of Components (23 05 93)		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser	564.37	
For Testing Of Unit Without Balancing, Deduct	-282.19	
23 05 93 00-0030 EA Water Balance, Cabinet Heater	71.83	
For Testing Of Unit Without Balancing, Deduct	-35.92	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled	615.56	
For Testing Of Unit Without Balancing, Deduct	-307.78	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled	820.83	
For Testing Of Unit Without Balancing, Deduct	-410.42	
23 05 93 00-0033 EA Water Balance, Cooling Tower	410.41	
For Testing Of Unit Without Balancing, Deduct	-205.21	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent	102.66	
For Testing Of Unit Without Balancing, Deduct	-51.33	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel	102.60	
For Testing Of Unit Without Balancing, Deduct	-51.30	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil	112.87	
For Testing Of Unit Without Balancing, Deduct	-56.44	
23 05 93 00-0037 EA Water Balance, Pumps	307.82	
For Testing Of Unit Without Balancing, Deduct	-153.91	
23 05 93 00-0038 EA Water Balance, Unit Heater	71.82	
For Testing Of Unit Without Balancing, Deduct	-35.91	
23 05 93 00-0039 EA Water Balancing, Converter	307.93	
For Testing Of Unit Without Balancing, Deduct	-153.97	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves	51.29	
For Testing Of Unit Without Balancing, Deduct	-25.65	
23 05 93 00-0041 EA Water Balance, Convectof	61.56	
For Testing Of Unit Without Balancing, Deduct	-30.78	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves	76.96	
For Testing Of Unit Without Balancing, Deduct	-38.48	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH	666.91	
For Testing Of Unit Without Balancing, Deduct	-333.46	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler	1,231.24	
For Testing Of Unit Without Balancing, Deduct	-615.62	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler	2,257.27	
For Testing Of Unit Without Balancing, Deduct	-1,128.64	
23 05 93 00-0046 Non Destructive Testing (23 05 93)		
23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0048 X-Ray Welds Minimum Set-Up Charge (23 05 93 00-0047)		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge	728.79	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 05 93 00-0050 Piping, X-Ray Welds, Non Destructive Testing (23 05 93 00-0047)		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing	82.40	
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non Destructive Testing	93.90	
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing	105.41	
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non Destructive Testing	111.35	
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non Destructive Testing	117.28	
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non Destructive Testing	123.59	
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non Destructive Testing	135.47	
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non Destructive Testing	147.34	
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non Destructive Testing	153.63	
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non Destructive Testing	159.93	
23 05 93 00-0061 Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0061)		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing	85.94	
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non Destructive Testing	91.52	
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	97.09	
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	99.87	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 93 Testing, Adjusting, And Balancing For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0067 EA 3" Piping, Liquid Penetration Of Welds, Non Destructive Testing	104.05	
23 05 93 00-0068 EA 4" Piping, Liquid Penetration Of Welds, Non Destructive Testing	108.24	
23 05 93 00-0069 EA 6" Piping, Liquid Penetration Of Welds, Non Destructive Testing	116.60	
23 05 93 00-0070 EA 8" Piping, Liquid Penetration Of Welds, Non Destructive Testing	124.95	
23 05 93 00-0071 EA 10" Piping, Liquid Penetration Of Welds, Non Destructive Testing	133.32	
23 05 93 00-0072 EA 12" Piping, Liquid Penetration Of Welds, Non Destructive Testing	141.67	
 23 05 93 00-0073 Hydrostatic Testing (23 05 93 00-0046) Note: Includes flushing and restoring of system.		
23 05 93 00-0074 Piping, Hydrostatic Testing (23 05 93 00-0073)		
23 05 93 00-0075 EA Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing	733.33	
23 05 93 00-0076 EA >100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing	1,047.61	
23 05 93 00-0077 EA >250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing	1,255.24	
23 05 93 00-0078 EA >500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing	1,671.99	
23 05 93 00-0079 EA >1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing	2,533.31	
23 05 93 00-0080 EA Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing	975.03	
23 05 93 00-0081 EA >100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing	1,393.32	
23 05 93 00-0082 EA >250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing	1,658.71	
23 05 93 00-0083 EA >500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing	2,173.56	
23 05 93 00-0084 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing	3,288.22	
23 05 93 00-0085 EA Up To 100', >4" To 10" Piping, Hydrostatic Testing	1,270.71	
23 05 93 00-0086 EA >100' To 250', >4" To 10" Piping, Hydrostatic Testing	1,811.32	
23 05 93 00-0087 EA >250' To 500', >4" To 10" Piping, Hydrostatic Testing	1,819.10	
23 05 93 00-0088 EA >500' To 1,000', >4" To 10" Piping, Hydrostatic Testing	2,383.16	
23 05 93 00-0089 EA >1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing	3,605.28	
23 05 93 00-0090 EA Up To 100', >10" To 14" Piping, Hydrostatic Testing	1,649.69	
23 05 93 00-0091 EA >100' To 250', >10" To 14" Piping, Hydrostatic Testing	2,351.91	
23 05 93 00-0092 EA >250' To 500', >10" To 14" Piping, Hydrostatic Testing	2,365.29	
23 05 93 00-0093 EA >500' To 1,000', >10" To 14" Piping, Hydrostatic Testing	3,102.33	
23 05 93 00-0094 EA >1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing	4,700.51	
 23 05 93 00-0095 Pneumatic Testing (23 05 93 00-0046) Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
23 05 93 00-0096 Piping, Pneumatic Testing (23 05 93 00-0095)		
23 05 93 00-0097 EA Up To 100', Up To 1-1/2" Piping, Pneumatic Testing	833.66	
Note: Includes soaping joints.		
23 05 93 00-0098 EA >100' To 250', Up To 1-1/2" Piping, Pneumatic Testing	1,189.67	
Note: Includes soaping joints.		
23 05 93 00-0099 EA >250' To 500', Up To 1-1/2" Piping, Pneumatic Testing	1,284.20	
Note: Includes soaping joints.		
23 05 93 00-0100 EA >500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing	1,644.44	
Note: Includes soaping joints.		
23 05 93 00-0101 EA >1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing	2,571.71	
Note: Includes soaping joints.		
23 05 93 00-0102 EA Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing	1,087.82	
Note: Includes soaping joints.		
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing	1,544.82	
Note: Includes soaping joints.		
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing	1,669.37	
Note: Includes soaping joints.		
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing	2,138.27	
Note: Includes soaping joints.		
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing	3,342.86	
Note: Includes soaping joints.		
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing	1,309.42	
Note: Includes soaping joints.		
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing	1,848.08	
Note: Includes soaping joints.		
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing	1,990.79	
Note: Includes soaping joints.		
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing	2,543.22	
Note: Includes soaping joints.		
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing	3,981.85	
Note: Includes soaping joints.		
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing	1,704.94	
Note: Includes soaping joints.		
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing	2,402.63	
Note: Includes soaping joints.		
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing	2,588.74	
Note: Includes soaping joints.		
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing	3,306.69	
Note: Includes soaping joints.		
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing	5,184.46	
Note: Includes soaping joints.		
 23 05 93 00-0117 EPA Testing Of Sludge (23 05 93)		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead	602.54	
23 05 93 00-0119 EA Air Test/Combustion Gas Level	72.24	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Common Work Results For HVAC 23 05****Testing, Adjusting, And Balancing For HVAC 23 05 93****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	921.95	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water	701.70	
23 07 HVAC Insulation⁽²³⁾		
23 07 13 Duct Insulation^(23 07)		
Note: Based on SF surface area of duct to receive insulation.		
23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation^(23 07 13)		
Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight. See CSI section 23 33 53 00-0000 for internal duct insulation.		
23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation^(23 07 13 00-0001)		
23 07 13 00-0003 SF 1" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	3.12	2.17
For Plain Blanket, With No Facing, Deduct	-0.09	
For Work In Restricted Working Space, Add	0.87	
23 07 13 00-0004 SF 1-1/2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	3.66	2.17
For Plain Blanket, With No Facing, Deduct	-0.10	
For Work In Restricted Working Space, Add	1.02	
23 07 13 00-0005 SF 2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.16	3.26
For Plain Blanket, With No Facing, Deduct	-0.11	
For Work In Restricted Working Space, Add	1.16	
23 07 13 00-0006 SF 3" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.89	3.80
For Plain Blanket, With No Facing, Deduct	-0.14	
For Work In Restricted Working Space, Add	1.36	
23 07 13 00-0007 SF 4" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.45	4.13
For Plain Blanket, With No Facing, Deduct	-0.22	
For Work In Restricted Working Space, Add	1.47	
23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation^(23 07 13 00-0001)		
23 07 13 00-0009 SF 1" Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	3.88	3.26
For Plain Blanket, With No Facing, Deduct	-0.10	
For Work In Restricted Working Space, Add	1.09	
23 07 13 00-0010 SF 1-1/2" Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.50	3.80
For Plain Blanket, With No Facing, Deduct	-0.13	
For Work In Restricted Working Space, Add	1.25	
23 07 13 00-0011 SF 2" Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation.....	5.32	4.35
For Plain Blanket, With No Facing, Deduct	-0.15	
For Work In Restricted Working Space, Add	1.48	
23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation^(23 07 13 00-0001)		
23 07 13 00-0013 SF 1" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.80	4.35
For Plain Blanket, With No Facing, Deduct	-0.18	
For Work In Restricted Working Space, Add	1.31	
23 07 13 00-0014 SF 1-1/2" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.76	4.89
For Plain Blanket, With No Facing, Deduct	-0.31	
For Work In Restricted Working Space, Add	1.50	
23 07 13 00-0015 SF 2" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.70	5.44
For Plain Blanket, With No Facing, Deduct	-0.36	
For Work In Restricted Working Space, Add	1.74	
23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation^(23 07 13)		
Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017 SF 1", 3 LB/CF FSK Rigid Fiber Glass Board Insulation	9.83	5.65
For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add	23.29	
For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add	17.07	
For Non-Metallic Weatherproof Paste, 2 LB, Add	14.12	
For Work In Restricted Working Space, Add	2.90	
23 07 13 00-0018 SF 1-1/2", 3 LB/CF FSK Rigid Fiber Glass Board Insulation	12.00	6.87
For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add	28.36	
For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add	20.81	
For Non-Metallic Weatherproof Paste, 2 LB, Add	17.21	
For Work In Restricted Working Space, Add	3.52	
23 07 13 00-0019 SF 2", 3 LB/CF FSK Rigid Fiber Glass Board Insulation	14.51	8.29
For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add	34.25	
For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add	25.14	
For Non-Metallic Weatherproof Paste, 2 LB, Add	20.78	
For Work In Restricted Working Space, Add	4.25	
23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation^(23 07 13)		
Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021 SF 1", 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	11.21	6.21
For Work In Restricted Working Space, Add	3.18	
23 07 13 00-0022 SF 1-1/2", 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	14.26	7.55
For Work In Restricted Working Space, Add	3.88	
23 07 13 00-0023 SF 2", 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	17.94	9.12
For Work In Restricted Working Space, Add	4.68	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 13 Duct Insulation**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0024 Sheet Flexible Elastomeric Insulation (23 07 13)			
23 07 13 00-0025	SF 3/8" Thick Sheet Flexible Elastomeric Insulation	6.53	2.93
23 07 13 00-0026	SF 1/2" Thick Sheet Flexible Elastomeric Insulation	6.95	3.10
23 07 13 00-0027	SF 3/4" Thick Sheet Flexible Elastomeric Insulation	8.63	3.26
23 07 13 00-0028	SF 1" Thick Sheet Flexible Elastomeric Insulation	9.74	3.43
23 07 13 00-0029	SF 1-1/2" Thick Sheet Flexible Elastomeric Insulation	12.88	3.75
23 07 13 00-0030	SF 2" Thick Sheet Flexible Elastomeric Insulation	15.02	4.08
23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)			
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.			
23 07 13 00-0032	SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	8.90	3.10
23 07 13 00-0033	SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	9.70	3.26
23 07 13 00-0034	SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	10.67	3.43
23 07 13 00-0035	SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	15.68	3.75
23 07 13 00-0036	SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	18.36	4.08
23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)			
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.			
23 07 13 00-0038	SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	10.29	3.10
23 07 13 00-0039	SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	11.09	3.26
23 07 13 00-0040	SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	12.30	3.43
23 07 13 00-0041	SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	17.29	3.75
23 07 16 HVAC Equipment Insulation (23 07)			
23 07 16 00-0001 Calcium Silicate Block Insulation (23 07 16)			
23 07 16 00-0002	SF 1" Calcium Silicate Block Insulation	15.70	6.79
For Work In Restricted Working Space, Add		4.07	
23 07 16 00-0003	SF 1-1/2" Calcium Silicate Block Insulation	18.46	7.63
For Work In Restricted Working Space, Add		4.58	
23 07 16 00-0004	SF 2" Calcium Silicate Block Insulation	21.93	8.80
For Work In Restricted Working Space, Add		5.30	
23 07 16 00-0005	SF 2-1/2" Calcium Silicate Block Insulation	26.01	10.33
For Work In Restricted Working Space, Add		6.20	
23 07 16 00-0006	SF 3" Calcium Silicate Block Insulation	31.84	12.72
For Work In Restricted Working Space, Add		7.63	
23 07 19 HVAC Piping Insulation (23 07)			
See CSI section 22 07 19 00-0000 for pipe insulation.			
23 07 19 00-0001 Calcium Silicate Pipe Insulation (23 07 19)			
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0508 for protective jacketing.			
23 07 19 00-0002 1" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)			
23 07 19 00-0003	LF 1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	11.84	3.57
For Work In Restricted Working Space, Add		2.68	
23 07 19 00-0004	LF 3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	11.84	3.57
For Work In Restricted Working Space, Add		2.68	
23 07 19 00-0005	LF 1" Diameter Pipe, 1" Thick Calcium Silicate Insulation	11.85	3.62
For Work In Restricted Working Space, Add		2.72	
23 07 19 00-0006	LF 1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	12.03	3.68
For Work In Restricted Working Space, Add		2.76	
23 07 19 00-0007	LF 1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	12.18	3.73
For Work In Restricted Working Space, Add		2.80	
23 07 19 00-0008	LF 2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	12.88	3.83
For Work In Restricted Working Space, Add		2.87	
23 07 19 00-0009	LF 2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	13.45	3.98
For Work In Restricted Working Space, Add		2.99	
23 07 19 00-0010	LF 3" Diameter Pipe, 1" Thick Calcium Silicate Insulation	13.97	4.09
For Work In Restricted Working Space, Add		3.07	
23 07 19 00-0011	LF 4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.69	4.40
For Work In Restricted Working Space, Add		3.30	
23 07 19 00-0012	LF 6" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.52	4.96
For Work In Restricted Working Space, Add		3.72	
23 07 19 00-0013 1-1/2" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)			
23 07 19 00-0014	LF 1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	12.39	3.72
For Work In Restricted Working Space, Add		2.79	
23 07 19 00-0015	LF 3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	12.43	3.72
For Work In Restricted Working Space, Add		2.79	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Insulation 23 07

HVAC Piping Insulation 23 07 19

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0016 LF 1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	13.27 2.96	3.94
23 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	13.72 3.01	4.02
23 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	14.18 3.07	4.09
23 07 19 00-0019 LF 2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	15.14 3.24	4.32
23 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	15.73 3.29	4.39
23 07 19 00-0021 LF 3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	16.31 3.41	4.54
23 07 19 00-0022 LF 4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.02 3.68	4.90
23 07 19 00-0023 LF 6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.93 4.30	5.73
23 07 19 00-0024 LF 8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.88 4.54	6.05
23 07 19 00-0025 LF 10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	29.70 5.43	7.24
23 07 19 00-0026 LF 12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.84 6.32	8.43
23 07 19 00-0027 LF 14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	38.65 6.93	9.24
23 07 19 00-0028 LF 16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.81 8.82	11.76
23 07 19 00-0029 LF 18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	50.12 9.26	12.34
23 07 19 00-0030 2" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0031 LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	15.08 3.07	4.09
23 07 19 00-0032 LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	15.34 3.07	4.09
23 07 19 00-0033 LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	15.75 3.11	4.14
23 07 19 00-0034 LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	16.27 3.14	4.19
23 07 19 00-0035 LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	16.65 3.18	4.24
23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.34 3.30	4.40
23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	19.01 3.42	4.55
23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	19.43 3.53	4.71
23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.27 3.73	4.97
23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.95 4.47	5.96
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.88 4.72	6.29
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.34 5.65	7.53
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.89 6.76	9.02
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	51.64 9.44	12.58
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	53.70 9.44	12.58
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.28 9.91	13.21
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	67.63 11.33	15.10
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.42 13.68	18.24
23 07 19 00-0049 2-1/2" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.90 3.54	4.71
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.18 3.54	4.71
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.49 3.59	4.79
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.66 3.62	4.82
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	19.05 3.65	4.86
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	19.85 3.80	5.07
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.86 3.93	5.24

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.32 4.07	5.43
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.23 4.29	5.72
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.80 4.88	6.50
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.97 5.43	7.25
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	41.48 6.27	8.35
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.92 7.79	10.38
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	53.96 8.50	11.34
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	66.24 10.87	14.49
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	69.87 11.41	15.22
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	80.80 13.04	17.39
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	95.53 15.76	21.02
23 07 19 00-0068 3" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.86 3.92	5.22
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.93 3.92	5.22
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.13 3.96	5.28
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.33 3.98	5.31
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.55 4.02	5.37
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.33 4.17	5.57
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.48 4.32	5.76
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.09 4.47	5.96
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.02 4.72	6.29
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.28 5.36	7.15
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.65 5.97	7.96
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.02 6.89	9.19
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	56.26 8.57	11.43
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	62.24 9.35	12.47
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	74.16 11.95	15.94
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.53 12.55	16.73
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	92.66 14.35	19.14
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	110.09 17.34	23.12
23 07 19 00-0087 3-1/2" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.94 4.29	5.72
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.74 4.29	5.72
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.83 4.32	5.76
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.92 4.34	5.79
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.68 4.40	5.87
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.28 4.55	6.06
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.59 4.71	6.28
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.74 4.88	6.50
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	37.90 5.15	6.87
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	42.42 5.85	7.80

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Insulation 23 07

HVAC Piping Insulation 23 07 19

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	50.86 6.52	8.68
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	61.28 7.52	10.03
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	74.51 9.35	12.46
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	78.96 10.20	13.61
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	93.58 13.04	17.39
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	105.81 13.70	18.26
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	115.35 15.66	20.89
23 07 19 00-0105 4" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.86 4.76	6.35
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.88 4.76	6.35
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.15 4.85	6.46
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.96 4.90	6.53
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.80 5.06	6.74
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.60 5.21	6.95
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.45 5.30	7.06
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.64 5.49	7.32
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	45.56 5.79	7.73
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	52.53 6.57	8.76
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	61.93 7.33	9.77
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	71.34 8.47	11.29
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	82.40 10.52	14.02
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	88.04 11.49	15.32
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	105.68 14.69	19.58
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	112.10 15.39	20.52
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	124.82 17.62	23.49
23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) <i>For Work In Restricted Working Space, Add</i>	4.55 1.01	
23 08 Commissioning Of HVAC (23)		
See CSI section 23 05 93 00-0000 for testing and balancing.		
23 09 Instrumentation And Control For HVAC (23)		
23 09 13 Instrumentation And Control Devices For HVAC (23 09)		
23 09 13 56 Pneumatic Tubing (23 09 13)		
23 09 13 56-0001 Polyurethane Pneumatic Tubing (23 09 13 56)		
23 09 13 56-0002 LF 1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing	2.12	0.91
23 09 13 56-0003 LF 5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	2.48	0.94
23 09 13 56-0004 LF 3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	3.01	0.97
23 09 13 56-0005 LF 1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	3.61	1.00
23 09 13 56-0006 Fire Resistant Polyethylene Pneumatic Tubing (23 09 13 56)		
23 09 13 56-0007 LF 1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	1.98	0.91
23 09 13 56-0008 LF 5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.09	0.94
23 09 13 56-0009 LF 3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.30	0.97
23 09 13 56-0010 LF 1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.67	1.00
23 09 13 56-0011 Nylon Pneumatic Tubing (23 09 13 56)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 13 Instrumentation And Control Devices For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 13 56-0012 LF 1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing	2.16	0.89
23 09 13 56-0013 LF 1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing	2.63	0.91
23 09 13 56-0014 LF 3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing	3.59	0.97
23 09 13 56-0015 LF 1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing	4.38	1.00
23 09 13 56-0016 Flexible Vinyl Pneumatic Tubing (23 09 13 56)		
23 09 13 56-0017 LF 1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing	2.16	0.91
23 09 13 56-0018 LF 3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing	3.03	0.97
23 09 13 56-0019 LF 1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing	3.49	1.00
23 09 13 56-0020 LF 5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing	4.07	1.04
23 09 13 56-0021 LF 3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing	4.51	1.06
23 09 13 56-0022 LF 1" Outside Diameter Flexible Vinyl Pneumatic Tubing	5.83	1.09
23 09 13 56-0023 Braided Vinyl Pneumatic Tubing (23 09 13 56)		
23 09 13 56-0024 LF 5/8" Outside Diameter Braided Vinyl Pneumatic Tubing	2.73	1.04
23 09 13 56-0025 LF 3/4" Outside Diameter Braided Vinyl Pneumatic Tubing	3.05	1.06
23 09 13 56-0026 LF 1" Outside Diameter Braided Vinyl Pneumatic Tubing	3.59	1.09
23 09 13 56-0027 Copper Pneumatic Tubing (23 09 13 56)		
23 09 13 56-0028 LF 1/4" Outside Diameter Copper Pneumatic Tubing	5.21	1.99
23 09 13 56-0029 LF 3/8" Outside Diameter Copper Pneumatic Tubing	5.93	2.28
23 09 13 56-0030 LF 1/2" Outside Diameter Copper Pneumatic Tubing	7.26	2.63
23 09 13 56-0031 LF 5/8" Outside Diameter Copper Pneumatic Tubing	8.59	3.03
23 09 13 56-0032 LF 3/4" Outside Diameter Copper Pneumatic Tubing	10.32	3.48
23 09 13 56-0033 Brass Couplings (23 09 13 56) See CSI section 22 11 16 00-0345 for copper tubing.		
23 09 13 56-0034 Straight Brass Couplings (23 09 13 56-0033) Note: Barb x Barb		
23 09 13 56-0035 EA 1/4" x 1/4" Straight Brass Coupling	10.34	5.01
23 09 13 56-0036 EA 3/8" x 1/4" Straight Brass Coupling	10.39	5.01
23 09 13 56-0037 EA 3/8" x 3/8" Straight Brass Coupling	10.44	5.01
23 09 13 56-0038 Elbow Brass Couplings (23 09 13 56-0033) Note: Barb x Barb		
23 09 13 56-0039 EA 1/4" x 1/4" Elbow Brass Coupling	10.62	5.01
23 09 13 56-0040 EA 3/8" x 3/8" Elbow Brass Coupling	10.79	5.01
23 09 13 56-0041 Tee Brass Couplings (23 09 13 56-0033) Note: Barb x Barb		
23 09 13 56-0042 EA 1/4" x 1/4" x 1/4" Tee Brass Coupling	16.38	7.80
23 09 13 56-0043 EA 3/8" x 3/8" x 1/4" Tee Brass Coupling	18.09	8.36
23 09 13 56-0044 EA 3/8" x 3/8" x 3/8" Tee Brass Coupling	17.91	8.36
23 09 23 Direct-Digital Control System For HVAC (23 09)		
23 09 23 00-0001 EMCS General Costs (23 09 23)		
23 09 23 00-0002 EMCS System Design Engineering (23 09 23 00-0001) Note: Hourly labor rates are used for engineering projects only. Not used in conjunction with construction tasks.		
23 09 23 00-0003 HR EMCS Site Inspection Of Existing Facilities	257.14	
23 09 23 00-0004 HR EMCS Engineering Project Management	257.14	
23 09 23 00-0005 HR EMCS System Engineering, Schematic Design And Layout	272.73	
23 09 23 00-0006 HR EMCS System Software Programming And Graphics Programming	272.73	
23 09 23 00-0007 HR EMCS Graphics Picture Creation	175.37	
23 09 23 00-0008 HR EMCS System Controls Training	257.14	
23 09 23 00-0009 HR EMCS On Site System Diagnostics Field Technician	257.14	
23 09 23 00-0010 HR EMCS Remote Technical Support Using Phone Or Internet	214.34	
23 09 23 00-0011 HR EMCS Travel Time (All Personnel)	222.13	
23 09 23 00-0012 Post Warranty Field Tests, Checkout And Commissioning (23 09 23 00-0001) Note: Tasks used for building commissioning of other contractors' work or post warranty service work. A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 00-0013 PNT EMCS Field Test	136.41	
23 09 23 00-0014 PNT EMCS Field Checkout And Startup	136.41	
23 09 23 00-0015 PNT EMCS Field Commissioning	136.41	
23 09 23 00-0016 EA EMCS Field Balance Support	116.88	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0017 EMCS System Engineering/Submittal Design And Layout (23 09 23 00-0001) Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 00-0018 PNT EMCS System Engineering/Submittal Design And Layout 45.51 Note: Priced per point.	45.51	
23 09 23 00-0019 Install EMCS Field Devices And Controllers (Labor Only) (23 09 23 00-0001) Note: This section is used when equipment or devices are supplied by others, usually in a maintenance or trouble shooting situation. Excludes cable or conduit between panel and device.		
23 09 23 00-0020 EA Mount An AHU Control Enclosure On Block, Masonry Or Gypsum Wall 235.74	235.74	38.96
23 09 23 00-0021 EA Install AHU Power Supply In A Control Enclosure 171.43	171.43	77.92
23 09 23 00-0022 EA Install Metal Box And Conduit Stub-Up For Sensor In Masonry Wall 235.74	235.74	38.96
23 09 23 00-0023 EA Install And Wire Room Sensor 64.31	64.31	38.96
23 09 23 00-0024 EA Install And Wire Duct Sensor 85.72	85.72	38.96
23 09 23 00-0025 EA Install And Wire AHU Averaging Sensor 278.54	278.54	194.80
23 09 23 00-0026 EA Install And Wire AHU Humidity Sensor 150.03	150.03	58.49
23 09 23 00-0027 EA Install And Wire AHU CO2 Sensor 214.34	214.34	58.49
23 09 23 00-0028 EA Install And Wire Fan Or Filter DP Switch 214.34	214.34	58.49
23 09 23 00-0029 EA Install And Wire Float Switch 171.43	171.43	38.96
23 09 23 00-0030 EA Install And Wire Freezestat 278.54	278.54	194.80
23 09 23 00-0031 EA Install And Wire Duct Static Pressure Sensor 150.03	150.03	77.92
23 09 23 00-0032 EA Install And Wire Duct High Static Sensor 85.72	85.72	38.96
23 09 23 00-0033 EA Install And Wire Emergency Stop Switch For AHU Or Other Equipment 85.72	85.72	38.96
23 09 23 00-0034 EA Install And Wire Emergency Stop Switch For AHU 257.14	257.14	77.92
23 09 23 00-0035 EA Install And Wire AHU Connection To Starter 257.14	257.14	194.80
23 09 23 00-0036 EA Install And Wire Connection To VFD 471.48	471.48	194.80
23 09 23 00-0037 EA Install And Wire AHU Valve Actuator 128.62	128.62	38.96
23 09 23 00-0038 EA Install And Wire AHU Damper Actuator 257.14	257.14	77.92
23 09 23 00-0039 EA Install And Wire AHU Smoke Detector Or Fire Alarm Relay 150.03	150.03	58.49
23 09 23 00-0040 EA Install And Wire AHU Electropneumatic Transducer 107.11	107.11	38.96
23 09 23 00-0041 EA Install And Wire Electric Heat Or Sequencer 257.14	257.14	77.92
23 09 23 00-0042 EA Install And Wire Connection To Outdoor Compressor 600.00	600.00	58.49
23 09 23 00-0043 EA Install And Wire AHU Magnahelic 214.34	214.34	38.96
23 09 23 00-0044 EA Install And Wire AHU Wireway For Control Enclosure 257.14	257.14	77.92
23 09 23 00-0045 EA Wire And Assemble AHU Control Enclosure 471.48 Note: Includes installing all panel devices for a medium size panel.	471.48	
23 09 23 00-0046 EA Field Install And Wire VAV Controller 171.43 Note: Use when VAV box is previously installed.	171.43	77.92
23 09 23 00-0047 EA Shop Install And Wire VAV Controller 150.03	150.03	
23 09 23 00-0048 EA Install And Wire VAV Power Supply 64.31	64.31	38.96
23 09 23 00-0049 EA Wire VAV Fan In Parallel Or Series Fan Box 85.72	85.72	38.96
23 09 23 00-0050 EA Install And Wire Fan Coil Unit Controller 428.57	428.57	116.88
23 09 23 00-0051 EA Mount Fan Coil Unit, Heat Pump, Or Unit Ventilator Controller 128.62	128.62	
23 09 23 00-0052 EA Install And Wire Central Plant Controller 600.00 Note: For programmable DDC controller.	600.00	350.65
23 09 23 00-0053 EA Mount Central Plant Enclosure For DDC Control Enclosure 235.74 Note: For programmable DDC controller.	235.74	38.96
23 09 23 00-0054 EA Install Central Plant Power Supply For DDC Programmable Controller 171.43	171.43	77.92
23 09 23 00-0055 EA Install Central Plant Wireway For Programmable Controller 257.14	257.14	77.92
23 09 23 00-0056 EA Install And Wire Chiller Controls For Enable And Setpoint Controls 514.29	514.29	116.88
23 09 23 00-0057 EA Install And Wire Chiller Flow Switch 514.29	514.29	233.77
23 09 23 00-0058 EA Install And Wire Chiller DP Transmitter 1,928.63 Note: Includes installing copper tubing connection to water piping.	1,928.63	116.88
23 09 23 00-0059 EA Install And Wire Boiler Controls For Enable And Alarm 385.77	385.77	116.88
23 09 23 00-0060 EA Install And Wire Boiler Safeties 385.77 Note: For high water, low water and flame safeguard.	385.77	116.88
23 09 23 00-0061 EA Install Boiler Control Panel Enclosure On Block, Masonry Or Gypsum Wall 857.14	857.14	487.06
23 09 23 00-0062 EA Wire And Terminate Combustion Air Damper 1,071.49	1,071.49	77.92
23 09 23 00-0063 EA Wire Oil Tank Interlock For Oil Boiler 535.69	535.69	77.92
23 09 23 00-0064 EA Install And Wire Boiler Emergency Stop Switch 1,071.49	1,071.49	233.77
23 09 23 00-0065 EA Wire And Terminate Temperature Well Sensor 107.11 Note: Excludes well.	107.11	58.49
23 09 23 00-0066 EA Install And Wire Strap On Sensor 257.14	257.14	58.49
23 09 23 00-0067 EA Install And Wire CO2 Sensor For Room Or Space 214.34 Note: Excludes stub-up.	214.34	58.49
23 09 23 00-0068 EA Install And Wire Valve Actuator 214.34	214.34	155.84
23 09 23 00-0069 EA Install And Wire Outside Air Temperature Sensor 385.77	385.77	116.88
23 09 23 00-0070 EA Install And Wire Outside Air Humidity Sensor 192.83	192.83	116.88
23 09 23 00-0071 EA Install And Wire Flow Sensor 471.48	471.48	233.77
23 09 23 00-0072 EA Install And Wire Pressure Sensor For Pump Or Building 471.48	471.48	233.77
23 09 23 00-0073 EA Install And Wire Pump Starter 257.14	257.14	58.49
23 09 23 00-0074 EA Install And Wire Pump VFD 471.48	471.48	116.88
23 09 23 00-0075 EA Install And Wire Pump DP Switch 642.91 Note: Includes installing copper tubing connection to water piping.	642.91	233.77
23 09 23 00-0076 EA Install And Wire System DP Transmitter 2,142.96 Note: Includes installing copper tubing connection to water piping and wiring remote transmitter.	2,142.96	233.77
23 09 23 00-0077 EA Mount Starter Sized Up To 100 HP 171.43	171.43	116.88
23 09 23 00-0078 EA Mount VFD Sized Up To 100 HP 428.57	428.57	389.61

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0079 EA Install And Wire Cooling Tower Control Enclosure	771.43	233.77
23 09 23 00-0080 EA Install And Wire Vibration Switch For Cooling Tower	471.48	233.77
23 09 23 00-0081 EA Install And Wire Cooling Tower Basin Heater	257.14	233.77
23 09 23 00-0082 EA Install And Wire Basin Water Temperature Switch	257.14	116.88
23 09 23 00-0083 EA Install And Wire Cooling Tower Make-Up Water Valve	257.14	233.77
23 09 23 00-0084 EA Install And Wire Cooling Tower Make-Up Water Valve	257.14	233.77
23 09 23 00-0085 EA Install And Wire Refrigerant Monitor Panel	1,285.82	487.06
23 09 23 00-0086 EA Install And Wire Break Glass Switch	257.14	116.88
23 09 23 00-0087 EA Install And Wire Horn/Strobe For Refrigerant Monitor	192.83	77.92
23 09 23 00-0088 EA Install And Wire Damper Actuator	257.14	77.92
23 09 23 00-0089 EA Install And Wire Chemical Feed System	2,142.96	487.06
23 09 23 00-0090 EA Wire And Assemble Control Enclosure	514.29	
Note: Includes installing all panel devices in large size panel.		
23 09 23 00-0091 EA Install And Wire Exhaust Fan DDC Control	535.69	97.45
Note: Start or stop and status.		
23 09 23 00-0092 EA Install And Wire Exhaust Fan Thermostat Control	171.43	58.49
23 09 23 00-0093 EA Wire Lighting Contactor (Contactor Installed By Others)	535.69	77.92
23 09 23 00-0094 EA Wire And Terminate Unit Heater	171.43	58.49
23 09 23 00-0095 EA Wire Domestic Water Heater For Enable Or Disable	535.69	77.92
23 09 23 00-0096 EA Wire And Install Current Transformer KWH Meter (With Power Off)	1,714.39	467.53
23 09 23 00-0097 EA Wire Water Meter (Meter Installed By Others)	1,714.39	116.88
23 09 23 00-0098 EA Wire Gas Meter (Meter Installed By Others)	1,714.39	116.88
23 09 23 00-0099 EA Install Wireless Receiver And Wire To DDC Controls	214.34	77.92
23 09 23 00-0100 EA Install Wireless Sensor	42.91	19.53
23 09 23 00-0101 EA Wire Split System AC Thermostat	857.14	58.49
23 09 23 00-0102 EA Wire Sump Pump Monitor Status Switch	642.91	116.88
23 09 23 00-0103 EA Install Locking Cover/Wire Guard For Thermostat Or Wall Temperature Sensor	31.17	15.59
23 09 23 00-0104 EA Install And Wire Combination Outside Air Temperature/Outside Air Humidity Sensor	578.60	233.77
23 09 23 00-0105 Honeywell Controls (23 09 23)		
23 09 23 00-0106 EMCS Central Equipment And Controllers (23 09 23 00-0105)		
23 09 23 00-0107 EMCS Network Area Controllers (BACnet Or Lon) (23 09 23 00-0106)		
Note: Includes loading software, software license, loading data base and mounting on wall.		
23 09 23 00-0108 EA Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004)	7,612.77	506.49
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.		
23 09 23 00-0109 EA Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022)	5,599.60	506.49
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-232 port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).		
23 09 23 00-0110 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201)	4,579.04	506.49
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.		
23 09 23 00-0111 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ)	5,391.17	506.49
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.		
23 09 23 00-0112 EA Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN)	4,551.08	506.49
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.		
23 09 23 00-0113 EA Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU)	4,551.08	506.49
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.		
23 09 23 00-0114 EA 16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B)	4,831.95	506.49
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 00-0115 EA 16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU)	5,126.81	506.49
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 00-0116 EA 16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N)	4,831.95	506.49
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 00-0117 EA 16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU)	5,126.81	506.49
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 00-0118 EA 34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B)	5,129.35	506.49
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 00-0119 EA 34 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-234-BU)	5,424.21	506.49
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0120 EA 34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N) Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDI/O port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	5,129.35	506.49
23 09 23 00-0121 EA 34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU) Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDI/O port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.	5,424.21	506.49
23 09 23 00-0122 EA Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX) Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.	5,377.19	506.49
23 09 23 00-0123 EA Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only) Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.	6,362.17	506.49
23 09 23 00-0124 EA Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ) Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.	6,665.92	506.49
23 09 23 00-0125 EA Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ) Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.	7,650.90	506.49
23 09 23 00-0126 EA Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX) Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBs controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.	6,679.90	506.49
23 09 23 00-0127 EA Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ) Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACEs, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.	8,557.08	506.49
23 09 23 00-0128 EMCS Network Interfaces (23 09 23 00-0106) Note: Includes installation, start-up and tech labor.		
23 09 23 00-0129 EA Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001) Note: For desktop computer.	1,012.69	140.26
23 09 23 00-0130 EA Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009) Note: For laptop computer.	876.06	93.51
23 09 23 00-0131 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010)	1,135.92	175.37
23 09 23 00-0132 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002)	1,664.00	253.30
23 09 23 00-0133 EA Two Way Lon Repeater (Honeywell Q7740A1008)	928.12	253.30
23 09 23 00-0134 EA FTT Termination Module For Network Bus (Honeywell 209541B)	79.46	31.17
23 09 23 00-0135 DDC Application Specific Controller Assemblies (23 09 23 00-0106) Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.		
23 09 23 00-0136 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	1,826.92	724.68
23 09 23 00-0137 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	1,437.31	429.09
23 09 23 00-0138 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	1,990.56	724.68
23 09 23 00-0139 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies	1,600.95	471.68
23 09 23 00-0140 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	2,174.14	806.54
23 09 23 00-0141 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	1,881.88	604.68
23 09 23 00-0142 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	2,746.81	806.54
23 09 23 00-0143 EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	2,337.78	617.15
23 09 23 00-0144 EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	1,659.38	806.54
23 09 23 00-0145 EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	1,269.77	476.88
23 09 23 00-0146 EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	1,873.73	806.54
23 09 23 00-0147 EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	1,484.01	537.15
23 09 23 00-0148 EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	2,097.85	806.54
23 09 23 00-0149 EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	1,700.45	475.85
23 09 23 00-0150 EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies	2,312.19	806.54
23 09 23 00-0151 EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies	1,914.68	536.10
23 09 23 00-0152 EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	2,556.63	806.54
23 09 23 00-0153 EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	2,202.14	515.33
23 09 23 00-0154 EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies	2,985.31	806.54
23 09 23 00-0155 EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies	2,630.71	603.63
23 09 23 00-0156 DDC Programmable Controller Assemblies (23 09 23 00-0106) Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 00-0163 for additional components.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0157 EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....	1,917.90	619.53
23 09 23 00-0158 EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....	2,158.89	619.53
23 09 23 00-0159 EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....	2,792.91	728.62
23 09 23 00-0160 EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....	3,033.89	728.62
23 09 23 00-0161 EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....	4,822.20	853.30
23 09 23 00-0162 EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....	5,100.77	853.30
23 09 23 00-0163 EMCS Optional DDC Controller Hardware (23 09 23 00-0106) Note: Used to expand the capacity of DDC programmable controller assemblies.		
23 09 23 00-0164 EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005).....	289.77	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 00-0165 EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011).....	334.89	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 00-0166 EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001).....	350.78	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 00-0167 EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010).....	331.08	
23 09 23 00-0168 EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016).....	336.16	
23 09 23 00-0169 EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011).....	328.54	
23 09 23 00-0170 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025).....	282.78	
23 09 23 00-0171 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004).....	245.93	
23 09 23 00-0172 EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002).....	360.31	
23 09 23 00-0173 EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000).....	322.18	
23 09 23 00-0174 EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002).....	355.86	
23 09 23 00-0175 EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011).....	755.57	
23 09 23 00-0176 EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017).....	939.86	
23 09 23 00-0177 EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002).....	469.61	
23 09 23 00-0178 EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010).....	462.62	
23 09 23 00-0179 EA Hydronic Controller Without Wall Module (Honeywell W7762B1027).....	226.86	
23 09 23 00-0180 EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016).....	258.00	
23 09 23 00-0181 EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001).....	476.60	
23 09 23 00-0182 EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001).....	509.65	
23 09 23 00-0183 EA AI Module (Honeywell XFL521B).....	319.01	
23 09 23 00-0184 EA AO Module (Honeywell XFL522B).....	319.01	
23 09 23 00-0185 EA DI Module (Honeywell XFL523B).....	319.01	
23 09 23 00-0186 EA DO Module (Honeywell XFL524B).....	319.01	
23 09 23 00-0187 EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511).....	56.56	
23 09 23 00-0188 EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513).....	106.76	
23 09 23 00-0189 EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514).....	104.85	
23 09 23 00-0190 EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI).....	320.91	
23 09 23 00-0191 EA Lon Hub (Honeywell XIO-HUB).....	47.66	
23 09 23 00-0192 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO).....	320.91	
23 09 23 00-0193 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI).....	295.49	
23 09 23 00-0194 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO).....	295.49	
23 09 23 00-0195 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC).....	311.38	
23 09 23 00-0196 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000).....	311.38	
23 09 23 00-0197 EA Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI).....	448.01	
23 09 23 00-0198 EA 16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16).....	528.71	
Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.		
23 09 23 00-0199 EA 34 Point IO Module For Network Area Controllers (Honeywell W7750A2005).....	1,123.51	
Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.		
23 09 23 00-0200 EMCS Software (23 09 23 00-0105)		
23 09 23 00-0201 Software Packages And License (23 09 23 00-0200) Note: Includes installation on equipment.		
23 09 23 00-0202 EA On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB).....	358.41	
Note: Requires UI services to be installed on NAC.		
23 09 23 00-0203 EA Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX).....	1,460.69	
Note: Upgrade existing network area controller. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 00-0204 EA WEBStation-AX Software For Windows (Honeywell WEB-S-AX).....	4,003.46	
Note: Includes Archon database. WEBs controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).		
23 09 23 00-0205 EA Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS).....	2,383.01	
Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.		
23 09 23 00-0206 EA Upgrade Small Building To Large Building Software.....	2,795.18	
Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.		
23 09 23 00-0207 EA Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W).....	2,015.22	
Note: One copy is included with WEB-S-AX and WEBStation-AX.		
23 09 23 00-0208 EA WEBs Energy Suite (WES) Base Software (Honeywell WES-BASE-AX).....	3,505.39	
Note: Includes license for 10 points of E ² Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E ² Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project.		
23 09 23 00-0209 EA Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E ² Profiler Points (Honeywell WES-CP-AX).....	553.63	
Note: Can be combined with the required single instance of WES-BASE as well as with any combination of other EP points and CP meters.		
23 09 23 00-0210 EA Perpetual License For One Point Of E ² Profiler (Honeywell WES-E2-AX).....	404.30	
Note: Can be combined with the required single instance of WES-BASE as well as with any number of other EP Points and Cost Profiler meters.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0211 EA Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters.....18,505.03 Note: Sold on a per server basis. Purchase of this product must be accompanied by VES-M1-ENT-AX maintenance. The first year price of maintenance is included with VES-ENT-AX.		
23 09 23 00-0212 EA Annual Maintenance For Enterprise WEBS-AX Energy Suite (Honeywell WES-M1-ENT-AX).....16,911.83 Note: The first year cost of VES-M1-ENT-AX is included with VES-ENT-AX. After the first year VES-M1-ENT-AX maintenance fee will be invoiced annually.		
23 09 23 00-0213 EA Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX) .....6,383.93		
23 09 23 00-0214 EA Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS).....4,763.48		
23 09 23 00-0215 EA Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500).....1,377.06		
23 09 23 00-0216 EA Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500) .....1,377.06		
23 09 23 00-0217 EA Vykon Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL).....9,532.05 Note: Excludes Oracle.		
23 09 23 00-0218 EA Open System Driver Option (Honeywell WS-SNMP-500).....1,270.94 Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchase with the WS or added later. Web Supervisor required to purchase this option.		
23 09 23 00-0219 EA Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500).....1,377.06		
23 09 23 00-0220 EA WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003).....3,601.21 Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.		
23 09 23 00-0221 EA WEBStation Additional Node (Honeywell ZW2000B1002) .....1,377.06		
23 09 23 00-0222 EA WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001).....23,089.17		
23 09 23 00-0223 EA WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000).....42,364.88		
23 09 23 00-0224 EA WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009).....74,138.38		
23 09 23 00-0225 EA Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008).....3,812.82		
23 09 23 00-0226 EA Additional Master WEBStation Software Licenses (Honeywell ZW200G1007).....1,906.41		
23 09 23 00-0227 EA Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001).....1,623.77		
23 09 23 00-0228 EA Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055).....1,746.65 Note: As with other WEBS, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 00-0229 Initial Database Generation (23 09 23 00-0200)		
23 09 23 00-0230 PNT Database Generation For Central Plant.....69.72		
23 09 23 00-0231 PNT Database Generation For Programmable Controller .....69.72 Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 00-0232 EA Database Generation For Application Specific Controller .....69.72 Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 00-0233 EA Replication Of Database Generation For Application Specific Controller .....48.52 Note: Price per copy made.		
23 09 23 00-0234 EA Database Generation For Remote IO Modules, Sensors, Etcetera .....48.52		
23 09 23 00-0235 Application Software Programs (23 09 23 00-0200)		
23 09 23 00-0236 EA Basic Application Program Package.....2,909.08 Note: One per project. Includes program inputs, command priorities, alarms, trends for analog and digital points, energy totalization, schedules, calendars, special events, occupied and unoccupied setpoints, ventilation and recirculation modes, hot water reset program, chilled water reset program, condenser water reset program, and fail-over logic.		
23 09 23 00-0237 EA Optimum Start/Stop Program.....97.24 Note: Priced per controller requiring optimum start programming.		
23 09 23 00-0238 EA Duty Cycling Program.....45.92		
23 09 23 00-0239 EA Hot Deck/Cold Deck Reset Application Program .....4,997.70		
23 09 23 00-0240 EA Boiler Optimization Program .....6,549.19		
23 09 23 00-0241 EA Chiller Optimization Program .....8,871.53		
23 09 23 00-0242 EA Lighting Control Program.....4,281.06		
23 09 23 00-0243 EA Demand Limiting Program .....85.29 Note: Priced per controller requiring optimum start programming.		
23 09 23 00-0244 EA Email Alarm Server Configuration.....3,302.66		
23 09 23 00-0245 Color Graphics Generation (23 09 23 00-0200)		
Note: Priced per page.		
23 09 23 00-0246 EA Single Site Home Page Graphics Page With HTML Navigation Code.....1,743.18		
23 09 23 00-0247 EA Multi Site Home Page Graphics Page With HTML Navigation Code .....3,094.95		
23 09 23 00-0248 EA Color Graphics Page For Central Plant .....792.00		
23 09 23 00-0249 EA Color Graphics Page For Building Floor Plan .....731.32		
23 09 23 00-0250 EA Replication Of Color Graphics Page For Central Plant .....397.30		
23 09 23 00-0251 EA Color Graphics Page For Programmable Controller .....891.01 Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 00-0252 EA Replication Of Color Graphics Page For Programmable Controller.....190.54 Note: Priced per copy made.		
23 09 23 00-0253 EA Color Graphics Page For Application Specific Controller.....824.10 Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 00-0254 EA Replication Of Color Graphics Page For Application Specific Cont .....82.39 Note: Priced per copy made.		
23 09 23 00-0255 Sensors, Actuators And Control Devices (23 09 23 00-0105)		
Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0256 Special Sensors (23 09 23 00-0255)		
23 09 23 00-0257 EA Dewpoint Sensor (Honeywell C7232B1014).....	1,218.24	64.31
23 09 23 00-0258 EA Enthalpy Sensor -25 To 125 F.....	1,267.34	64.31
23 09 23 00-0259 EA Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002).....	685.93	128.62
23 09 23 00-0260 EA Freezestat (Honeywell L482A1004).....	498.35	214.34
23 09 23 00-0261 EA Wall Mounted Occupancy Sensor.....	328.11	64.31
23 09 23 00-0262 EA Ceiling Mounted Occupancy Sensor.....	273.98	64.31
23 09 23 00-0263 EA I/P Positioner With Gauge.....	320.62	64.31
23 09 23 00-0264 EA Non Communicating Duct Mounted Smoke Detector With Sampling Tube.....	385.37	64.31
23 09 23 00-0265 EA EP Transducer.....	320.62	42.91
23 09 23 00-0266 EA Electric Heat Sequencer.....	521.72	85.72
23 09 23 00-0267 Meters (23 09 23 00-0255)		
23 09 23 00-0268 EA KW/KWh Meter/Current Transformer 208 - 480 Volt, Up To 2,400 Amps.....	3,257.88	514.29
23 09 23 00-0269 EA KW/KWh Meter/Current Transformer 208 - 480 Volt, Up To 2,400 Amps With LON interface.....	4,804.70	600.00
23 09 23 00-0270 EA Current Transformer For KW Meter 1 - 300 Amps.....	1,210.28	214.34
23 09 23 00-0271 EA Current Transformer For KW Meter 300 - 800 Amps.....	1,336.80	214.34
23 09 23 00-0272 EA Current Transformer For KW Meter 800 - 2,400 Amp.....	1,579.43	214.34
23 09 23 00-0273 Direct Coupled Actuators (23 09 23 00-0255)		
23 09 23 00-0274 EA 44 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002).....	481.16	94.98
23 09 23 00-0275 EA 88 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200).....	516.80	94.98
23 09 23 00-0276 EA 175 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209).....	578.09	94.98
23 09 23 00-0277 EA 44 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008).....	460.30	94.98
23 09 23 00-0278 EA 88 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206).....	498.64	94.98
23 09 23 00-0279 EA 175 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205).....	536.60	94.98
23 09 23 00-0280 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator.....	500.73	94.98
23 09 23 00-0281 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206).....	555.39	94.98
23 09 23 00-0282 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205).....	614.39	94.98
23 09 23 00-0283 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209).....	431.87	94.98
23 09 23 00-0284 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209).....	460.97	94.98
23 09 23 00-0285 EA 175 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200).....	519.44	94.98
23 09 23 00-0286 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007).....	546.96	94.98
23 09 23 00-0287 EA 300 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030).....	546.62	94.98
23 09 23 00-0288 EA 300 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008).....	622.10	94.98
23 09 23 00-0289 EA Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018).....	443.80	94.98
23 09 23 00-0290 EA Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368).....	731.30	94.98
23 09 23 00-0291 EA Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator.....	348.99	94.98
23 09 23 00-0292 EA Direct Coupled Damper Actuator Enclosure For Outdoor Use.....	507.56	94.98
23 09 23 00-0293 Thermostats (23 09 23 00-0105)		
23 09 23 00-0294 Electric And Electronic Thermostats (23 09 23 00-0293)		
Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.		
23 09 23 00-0295 EA Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018).....	155.02	15.59
23 09 23 00-0296 EA Electronic Non Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320).....	164.06	15.59
23 09 23 00-0297 EA Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110).....	154.02	15.59
23 09 23 00-0298 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220).....	167.77	15.59
23 09 23 00-0299 EA Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320).....	178.11	15.59
23 09 23 00-0300 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321).....	244.34	15.59
23 09 23 00-0301 EA Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F).....	338.68	15.59
23 09 23 00-0302 EA Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H).....	525.21	15.59
23 09 23 00-0303 EA Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M).....	557.62	15.59
23 09 23 00-0304 Pneumatic Thermostats (23 09 23 00-0293)		
Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.		
23 09 23 00-0305 EA Pneumatic Thermostat (Honeywell TP970B2182).....	192.48	15.59
23 09 23 00-0306 Thermostats Guards (23 09 23 00-0293)		
23 09 23 00-0307 EA 9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009).....	50.69	15.59

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0308 EA 7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511)	58.22	15.59
23 09 23 00-0309 EA 5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510)	55.51	15.59
23 09 23 00-0310 Delta Controls (23 09 23)		
23 09 23 00-0311 Software (23 09 23 00-0310)		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 00-0312 EA Orca Software Unlimited Points License (Delta Controls DOW333-USB)	1,380.19	
23 09 23 00-0313 EA Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB)	2,112.48	
23 09 23 00-0314 EA Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB)	4,577.04	
23 09 23 00-0315 EA Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB)	7,365.55	
23 09 23 00-0316 EA Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB)	3,844.75	
23 09 23 00-0317 EA Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB)	1,380.19	
23 09 23 00-0318 EA 100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01)	3,140.59	
23 09 23 00-0319 EA 1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02)	3,844.75	
23 09 23 00-0320 EA KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amp CT's And BACnet MS/TP Interface (Delta Controls H8186-CB)	1,478.86	103.89
23 09 23 00-0321 EA Delta Controls Touch Screen (Delta Controls DHMI-7-I)	1,449.88	
23 09 23 00-0322 EMCS Central Equipment And Controllers (23 09 23 00-0310)		
23 09 23 00-0323 EA Fully Programmable, Native BACnet Building Controller, 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet @ 76800 bps, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E + DFM1616)	5,847.33	415.58
23 09 23 00-0324 EA Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet @ 76800 Bps (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E)	4,720.68	415.58
23 09 23 00-0325 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	3,782.38	415.58
23 09 23 00-0326 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180)	3,782.38	415.58
23 09 23 00-0327 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	3,782.38	415.58
23 09 23 00-0328 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3)	3,610.80	415.58
23 09 23 00-0329 EA VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF)	1,142.76	207.80
23 09 23 00-0330 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,067.06	207.80
23 09 23 00-0331 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3)	1,117.29	207.80
23 09 23 00-0332 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,067.06	207.80
23 09 23 00-0333 EA Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616)	2,165.63	259.74
23 09 23 00-0334 EA Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440)	600.16	103.89
23 09 23 00-0335 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404)	632.07	103.89
23 09 23 00-0336 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600)	714.85	103.89
23 09 23 00-0337 Network, VAV And Special Sensors (23 09 23 00-0310)		
23 09 23 00-0338 EA BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24)	178.13	33.24
23 09 23 00-0339 EA BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24)	234.34	37.41
23 09 23 00-0340 EA Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B)	422.53	15.59
23 09 23 00-0341 Trane Controls (23 09 23)		
23 09 23 00-0342 Software (23 09 23 00-0341)		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 00-0343 EA Summit + Building Management Package (Trane 40201152)	2,254.04	
23 09 23 00-0344 EA Summit Current Version Software (Trane 40201111)	2,264.19	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0345	EA	Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113)	.....	515.81	
23 09 23 00-0346	EA	Rover Service Software And Hardware, Complete Kit (Trane X1365150001)	.....	1,714.18	
23 09 23 00-0347	EA	Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000)	.....	5,994.22	
23 09 23 00-0348 EMCS Central Equipment And Controllers (23 09 23 00-0341)					
23 09 23 00-0349	EA	Summit BTMX Operator Display Upgrade (Trane 40201224)	.....	4,593.19	415.58
23 09 23 00-0350	EA	Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531)	.....	8,779.45	415.58
23 09 23 00-0351	EA	Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532)	.....	8,779.45	415.58
23 09 23 00-0352	EA	Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00)	.....	7,870.46	415.58
23 09 23 00-0353	EA	Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10)	.....	8,927.33	415.58
23 09 23 00-0354	EA	Summit CCP Upgrade ROM Kit (Trane 40201095)	.....	156.51	25.97
23 09 23 00-0355	EA	Summit Comm5 Repeater (Trane 49500457)	.....	1,219.08	207.80
23 09 23 00-0356	EA	AHU Controller MP580/581 E Board Only (Trane 40201157)	.....	1,925.12	259.74
23 09 23 00-0357	EA	AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01)	.....	2,436.29	311.69
23 09 23 00-0358	EA	AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00)	.....	2,016.26	311.69
23 09 23 00-0359	EA	AHU Controller MP581 Operator Door Display (Trane 40201156)	.....	1,779.28	311.69
23 09 23 00-0360	EA	AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491)	.....	1,777.45	311.69
23 09 23 00-0361	EA	Controller MP503 I/O Module With Metal Enclosure (Trane 49500590)	.....	744.63	103.89
23 09 23 00-0362	EA	Controller MP503 I/O Module With Plastic Cover (Trane 49500490)	.....	692.41	103.89
23 09 23 00-0363	EA	Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500)	.....	1,280.46	207.80
23 09 23 00-0364	EA	Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499)	.....	1,237.16	207.80
23 09 23 00-0365	EA	2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569)	.....	673.29	103.89
23 09 23 00-0366	EA	2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469)	.....	610.42	103.89
23 09 23 00-0367	EA	4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596)	.....	827.99	103.89
23 09 23 00-0368	EA	4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496)	.....	765.46	103.89
23 09 23 00-0369	EA	Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 4950049)	.....	678.89	103.89
23 09 23 00-0370	EA	Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496)	.....	654.64	103.89
23 09 23 00-0371	EA	Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570)	.....	728.60	103.89
23 09 23 00-0372	EA	Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470)	.....	678.89	103.89
23 09 23 00-0373	EA	DDC VAV Retrofit Kit (Trane VRTODD01)	.....	1,043.88	207.80
23 09 23 00-0374	EA	DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO)	.....	1,105.71	207.80
23 09 23 00-0375 Network, VAV And Special Sensors (23 09 23 00-0341)					
23 09 23 00-0376	EA	Digital Display Zone Sensor (Trane X13790464010)	.....	147.88	33.24
23 09 23 00-0377	EA	Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010)	.....	114.37	33.24
23 09 23 00-0378	EA	Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010)	.....	104.86	33.24
23 09 23 00-0379	EA	Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01)	.....	176.48	37.41
23 09 23 00-0380	EA	Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121)	.....	123.20	33.24
23 09 23 00-0381	EA	Zone Sensor LCD O/C Setpoint (Trane 41901120)	.....	123.20	33.24
23 09 23 00-0382	EA	Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010)	.....	491.09	59.85
23 09 23 00-0383	EA	Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010)	.....	379.70	33.24
23 09 23 00-0384	EA	Transformer 120/24 40 VA (Trane X13550284010)	.....	112.16	33.24
23 09 23 00-0385	EA	Transformer 24 Volt AC Wall Plug-In (Trane 35803005)	.....	97.55	33.24
23 09 23 00-0386	EA	Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022)	.....	94.34	33.24
23 09 23 00-0387	EA	Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010)	.....	1,129.61	413.88
23 09 23 00-0388	EA	Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010)	.....	1,096.25	413.88
23 09 23 00-0389	EA	Controller UC400 XM32 Module (4 Relay) (Trane X13651563010)	.....	987.67	413.88
23 09 23 00-0390	EA	Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010)	.....	1,640.79	620.78
23 09 23 00-0391	EA	Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010)	.....	988.08	413.88
23 09 23 00-0392	EA	Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011)	.....	1,061.95	413.88
23 09 23 00-0393	EA	Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011)	.....	1,022.00	413.88
23 09 23 00-0394	EA	Controller Optional Metal Enclosure, UC210 (Trane 501898)	.....	430.66	206.91
23 09 23 00-0395	EA	Controller UC400 PM014 24 Volt AC To 1.4 Amp 24 Volt DC (Trane X1365153801)	.....	523.72	206.91
23 09 23 00-0396	EA	Controller Tracer UC600 Controller (Trane BMUC600AAA0100011)	.....	1,754.79	620.78
23 09 23 00-0397	EA	Controller UC600 Tracer TD7 Display (Trane X13651571010)	.....	1,726.51	620.78
23 09 23 00-0398	EA	Controller UC600 TD7 Mounting Bracket (Trane X05010511010)	.....	109.66	41.40
23 09 23 00-0399	EA	Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010)	.....	319.61	74.49
23 09 23 00-0400	EA	SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010)	.....	1,770.61	620.78
23 09 23 00-0401	EA	BACnet Term (2 Pack) (Trane X1365152401)	.....	179.74	74.49
23 09 23 00-0402	EA	Tracer ES Add License (Trane X40250125010)	.....	3,881.45	1,655.38
23 09 23 00-0403	EA	Kit - Tracer TU For Controls (Trane X4509151201)	.....	5,176.03	1,655.27
23 09 23 00-0404	EA	Kit - Tracer TU Complete (Trane X4509151301)	.....	6,290.68	1,655.27
23 09 23 00-0405	EA	Tracer TU Adapter Wired/Wireless (Trane X13651529010)	.....	361.95	74.49
23 09 23 00-0406	EA	Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010)	.....	220.26	74.49
23 09 23 00-0407	EA	Sensor Wireless Display Sensor (Trane X13790822010)	.....	237.76	74.49
23 09 23 00-0408	EA	Sensor Wireless Receiver, 100mW (Trane X13790854010)	.....	232.22	74.49
23 09 23 00-0409	EA	Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010)	.....	326.11	74.49
23 09 23 00-0410	EA	Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010)	.....	350.01	74.49

23 09 23 00-0411 Johnson Controls (23 09 23)**23 09 23 00-0412 Software (23 09 23 00-0411)**

Note: Excludes programming, set-up and commissioning of application.

23 09 23 00-0413	EA	5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0)	.....	10,332.95	
23 09 23 00-0414	EA	10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0)	.....	12,197.91	
23 09 23 00-0415	EA	N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0)	.....	718.26	
23 09 23 00-0416	EA	N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2)	.....	1,025.61	
23 09 23 00-0417	EA	BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0)	.....	1,722.83	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0418	EA	BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0)	723.47		
23 09 23 00-0419	EA	New User FX Tools Pro CD-Rom (FX Builder, FX Builder Expres, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0)	720.43		
23 09 23 00-0420	EA	Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Expres, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6)	339.90		
23 09 23 00-0421 Supervisory Controllers (23 09 23 00-0411)					
23 09 23 00-0422	EA	NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2)	5,730.53	415.58	
23 09 23 00-0423	EA	NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2)	8,190.10	415.58	
23 09 23 00-0424	EA	NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1)	10,655.11	415.58	
23 09 23 00-0425	EA	NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS- NCE2510-0)	4,783.12	415.58	
23 09 23 00-0426 Controllers (23 09 23 00-0411)					
23 09 23 00-0427	EA	10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0)	676.95	103.89	
23 09 23 00-0428	EA	10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0)	840.95	207.80	
23 09 23 00-0429	EA	17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0)	1,207.55	207.80	
23 09 23 00-0430	EA	17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0)	1,371.54	207.80	
23 09 23 00-0431	EA	BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0)	582.86	103.89	
23 09 23 00-0432	EA	BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0)	624.68	103.89	
23 09 23 00-0433	EA	BACnet MS/TP 12 Point I/O Module With 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0)	687.41	103.89	
23 09 23 00-0434	EA	17 Point I/O Module With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IOU4710-0)	695.77	103.89	
23 09 23 00-0435	EA	BACnet MS/TP Integrated VAV Controller/Actuator/Pressure Sensor (Cooling Only), Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1610-0)	671.60	103.89	
23 09 23 00-0436	EA	BACnet MS/TP Integrated VAV Controller/Actuator/Pressure Sensor (With Reheat And Fan Control), Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1620-0)	695.98	103.89	
23 09 23 00-0437	EA	BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2)	1,414.22	207.80	
23 09 23 00-0438 Master FX Controllers (23 09 23 00-0411)					
23 09 23 00-0439	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C)	1,702.74	207.80	
23 09 23 00-0440	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C)	1,801.93	207.80	
23 09 23 00-0441	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C)	1,851.22	207.80	
23 09 23 00-0442	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C)	1,821.27	207.80	
23 09 23 00-0443	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C)	1,774.45	207.80	
23 09 23 00-0444	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C)	1,781.96	207.80	
23 09 23 00-0445	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C)	1,774.45	207.80	
23 09 23 00-0446	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C)	1,802.04	207.80	
23 09 23 00-0447	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C)	1,887.71	207.80	
23 09 23 00-0448	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C)	1,944.82	207.80	
23 09 23 00-0449	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C)	1,916.26	207.80	
23 09 23 00-0450	EA	6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C)	1,857.81	207.80	
23 09 23 00-0451	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C)	1,802.04	207.80	
23 09 23 00-0452	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C)	1,887.71	207.80	
23 09 23 00-0453	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C)	1,944.82	207.80	
23 09 23 00-0454	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C)	1,916.26	207.80	
23 09 23 00-0455	EA	6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C)	1,857.81	207.80	
23 09 23 00-0456	EA	N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C)	205.07	51.95	
23 09 23 00-0457	EA	LON Communication Card For FX16 (Johnson Controls LP-NET152-010C)	275.35	51.95	
23 09 23 00-0458	EA	RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C)	224.80	51.95	
23 09 23 00-0459	EA	BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C)	205.07	51.95	
23 09 23 00-0460	EA	Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C)	556.97	51.95	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0461 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....	520.81	51.95
23 09 23 00-0462 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....	529.28	51.95
23 09 23 00-0463 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....	529.28	51.95
23 09 23 00-0464 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....	571.56	51.95
23 09 23 00-0465 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....	571.56	51.95
23 09 23 00-0466 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....	693.12	51.95
23 09 23 00-0467 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C).....	693.12	51.95
23 09 23 00-0468 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C).....	761.82	51.95
23 09 23 00-0469 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C).....	761.82	51.95
23 09 23 00-0470 VAV, Network And Special Sensors (23 09 23 00-0411)		
23 09 23 00-0471 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0).....	343.74	33.24
23 09 23 00-0472 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0).....	136.36	33.24
23 09 23 00-0473 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0).....	273.29	33.24
23 09 23 00-0474 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0).....	392.87	33.24
23 09 23 00-0475 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0).....	151.89	33.24
23 09 23 00-0476 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0).....	359.15	33.24
23 09 23 00-0477 Sensors - Hard Wired Type (23 09 23 00-0411)		
23 09 23 00-0478 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00).....	158.98	59.85
23 09 23 00-0479 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0).....	118.61	33.24
23 09 23 00-0480 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2).....	274.66	15.59
Note: For fan coil units, unit heaters and single stage packaged heating/cooling equipment.		
23 09 23 00-0481 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2).....	360.49	15.59
Note: For two or four pipe fan coils, cabinet unit heaters or other equipment using on/off, floating, or proportional 0 to 10 VDC control input, three speeds of fan control, and dehumidification capability.		
23 09 23 00-0482 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2).....	275.13	15.59
Note: For VVT systems.		
23 09 23 00-0483 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2).....	351.49	33.24
23 09 23 00-0484 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR).....	425.77	33.24
23 09 23 00-0485 Automated Logic Controls (23 09 23)		
23 09 23 00-0486 EA Up To 25 Point, High Speed Ethernet Router (Automated Logic LGR25).....	3,055.60	332.47
23 09 23 00-0487 EA Up To 250 Point, High Speed Ethernet Router (Automated Logic LGR250).....	3,528.46	332.47
23 09 23 00-0488 EA Up To 1,000 Point, High Speed Ethernet Router (Automated Logic LGR1000).....	5,103.27	332.47
23 09 23 00-0489 EA Up 25 Point, Router/Gateway/Processor Multi-Purpose Module (Automated Logic ME-LGR25).....	3,435.58	332.47
23 09 23 00-0490 EA Up 200 Point, Router/Gateway/Processor Multi-Purpose Module (Automated Logic ME-LGR200).....	5,483.25	332.47
23 09 23 00-0491 EA ME812u Controller And Router (Automated Logic ME812u-LGR).....	7,800.00	664.93
23 09 23 00-0492 EA 4 Universal Outputs, 8 Universal Inputs I/O Expander (Automated Logic MEX48u).....	2,453.96	332.47
23 09 23 00-0493 EA 8 Universal Outputs, 8 Universal Inputs I/O Expander (Automated Logic MEX88u).....	2,798.06	332.47
23 09 23 00-0494 EA 0 Universal Outputs, 16 Universal Inputs I/O Expander (Automated Logic MEX016u).....	2,601.74	332.47
23 09 23 00-0495 EA 8 Universal Outputs, 16 Universal Inputs I/O Expander (Automated Logic MEX816u).....	5,929.09	831.17
23 09 23 00-0496 EA 0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100).....	2,344.47	249.35
23 09 23 00-0497 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320).....	5,640.17	748.05
23 09 23 00-0498 EA 2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx).....	1,778.72	249.35
23 09 23 00-0499 EA 4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx).....	3,351.14	332.47
23 09 23 00-0500 EA 8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx).....	3,308.92	332.47
23 09 23 00-0501 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160).....	5,604.56	664.93
23 09 23 00-0502 EA 8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx).....	3,034.49	332.47
23 09 23 00-0503 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320).....	2,868.00	249.35
23 09 23 00-0504 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160).....	5,351.24	664.93
23 09 23 00-0505 EA No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642).....	1,120.38	166.24
23 09 23 00-0506 EA With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D).....	1,162.60	166.24
23 09 23 00-0507 EA 6 Digital Outputs, 10 Universal Inputs, 4 Analog Outputs Single Equipment Control Module (Automated Logic SE6104a).....	3,795.71	581.82
23 09 23 00-0508 EA 6 Digital Outputs, 16 Universal Inputs, 6 Analog Outputs Single Equipment Control Module (Automated Logic SE6166).....	4,570.17	664.93
23 09 23 00-0509 EA 2 Digital Outputs, 2 Universal Inputs Zone Controller (Automated Logic ZN220).....	1,409.30	249.35
23 09 23 00-0510 EA 2 Digital Outputs, 5 Universal Inputs, 3 Analog Outputs Zone Controller (Automated Logic ZN253).....	1,571.84	249.35
23 09 23 00-0511 EA 3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+).....	1,187.93	166.24
23 09 23 00-0512 EA 1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+).....	1,168.93	166.24



Heating, Ventilating, And Air-Conditioning (HVAC)

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Instrumentation And Control For HVAC 23 09

Direct-Digital Control System For HVAC 23 09 23

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0513	EA		5 Digital Outputs, 5 Universal Inputs, 1 Analog Outputs Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic ZN551).....	1,519.49	249.35
23 09 23 00-0514	EA		Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF).....	1,415.63	249.35
23 09 23 00-0515	EA		Unlimited Points, Front End Software For Building Control (Automated Logic WC).....	8,024.33	
23 09 23 00-0516	EA		500 Point, Front End Software For Building Control (Automated Logic WC500).....	3,675.67	
23 09 23 00-0517	EA		Advanced Reporting Option, Front End Software For Building Control (Automated Logic WC-ADV-REP).....	1,675.57	
23 09 23 00-0518	EA		Advanced Security Option, Front End Software For Building Control (Automated Logic WC-ADV-SEC).....	2,097.77	
23 09 23 00-0519	EA		Advanced Alarming Option, Front End Software For Building Control (Automated Logic WC-ADV-ALARM).....	2,506.74	
23 09 23 00-0520	EA		Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE).....	2,942.17	
23 09 23 00-0521 Alerton Controls (23 09 23)					
23 09 23 00-0522	EA		50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL).....	4,982.04	
23 09 23 00-0523	EA		150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM).....	7,263.20	
23 09 23 00-0524	EA		Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM).....	16,802.59	
23 09 23 00-0525	EA		Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE).....	12,862.40	
23 09 23 00-0526	EA		Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE).....	31,526.41	
23 09 23 00-0527	EA		Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE).....	19,083.73	
23 09 23 00-0528	EA		Dashboard Option, Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE).....	37,747.74	
23 09 23 00-0529	EA		Alerton Building Suite Tech License (Alerton ABS-3-TECH).....	1,153.46	
23 09 23 00-0530	EA		Enterprise Edition With SQL Server Support, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-ENT1).....	14,961.07	
23 09 23 00-0531	EA		Unlimited Controllers, Unlimited Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-LRG).....	11,222.04	
23 09 23 00-0532	EA		150 Controllers, 3 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-MED).....	7,234.17	
23 09 23 00-0533	EA		50 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-SM).....	4,863.84	
23 09 23 00-0534	EA		10 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-XS).....	1,995.38	
23 09 23 00-0535	EA		1 Ethernet, 1 MS/TP, BACTalk Control Module (Alerton 715000100).....	3,154.63	249.35
23 09 23 00-0536	EA		Foreign Protocol Converter For P1 Systems, BACTalk Control Module (Alerton BCM-FPCS).....	4,171.61	332.47
23 09 23 00-0537	EA		Modbus Gateway, BACTalk Control Module (Alerton BCM-MDBS).....	4,532.44	332.47
23 09 23 00-0538	EA		V.90/56K Modem, BACTalk Control Module (Alerton BCM-MDM).....	1,931.09	249.35
23 09 23 00-0539	EA		1 MS/TP, BACTalk Control Module (Alerton 715000300).....	2,227.65	249.35
23 09 23 00-0540	EA		Power Supply, BACTalk Control Module (Alerton BCM-PWS).....	1,839.85	249.35
23 09 23 00-0541	EA		1 TUX Trunk, BACTalk Control Module (Alerton BCM-TUX).....	2,030.64	249.35
23 09 23 00-0542	EA		Web Server And Configurator CD, BACTalk Control Module (Alerton BCM-WEB).....	4,386.45	249.35
23 09 23 00-0543	EA		BACTalk Field Level Gateway For Modbus (Alerton FLG-MODBUS).....	2,473.19	332.47
23 09 23 00-0544	EA		EXP BACnet Controller (Alerton VLX).....	5,296.84	664.93
23 09 23 00-0545	EA		VLX BACnet High Performance Controller (Alerton VLX-PLATINUM).....	5,945.94	664.93
23 09 23 00-0546	EA		Multiple Segment MS/TP Repeater (Alerton MSTP-REP).....	687.46	74.04
23 09 23 00-0547	EA		4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD).....	1,671.87	249.35
23 09 23 00-0548	EA		4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7).....	1,740.31	249.35
23 09 23 00-0549	EA		4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD).....	1,503.90	249.35
23 09 23 00-0550	EA		4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A).....	1,599.30	249.35
23 09 23 00-0551	EA		5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD).....	1,595.15	249.35
23 09 23 00-0552	EA		11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACTalk Field Controller For Central Plant Systems (Alerton VLC-1188).....	2,070.04	249.35
23 09 23 00-0553	EA		16 Inputs, BACTalk Field Controller (Alerton VLC-1600).....	1,723.72	249.35
23 09 23 00-0554	EA		16 Inputs, 16 Binary Triac Outputs, BACTalk Field Controller (Alerton VLC-16160).....	2,489.78	332.47
23 09 23 00-0555	EA		4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444).....	1,146.38	166.24
23 09 23 00-0556	EA		5 Inputs, 5 Binary Outputs, BACTalk Field Controller (Alerton VLC-550).....	1,121.50	166.24
23 09 23 00-0557	EA		6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-651R).....	1,605.51	249.35
23 09 23 00-0558	EA		6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-660R).....	1,605.51	249.35
23 09 23 00-0559	EA		8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACTalk Field Controller (Alerton VLC-853).....	1,779.71	249.35
23 09 23 00-0560	EA		16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688).....	3,157.53	332.47
23 09 23 00-0561	EA		2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362).....	1,644.92	249.35
23 09 23 00-0562	EA		Wireless Door Contact Sensor (Alerton AL-OC-DS).....	95.95	9.35
23 09 23 00-0563	EA		One-Speed BACTalk Microset Wall Sensor (Alerton MS-1010-BT).....	144.22	9.35
23 09 23 00-0564	EA		One-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT).....	268.66	9.35
23 09 23 00-0565	EA		Three-Speed BACTalk Microset Wall Sensor (Alerton MS-1030-BT).....	144.22	9.35
23 09 23 00-0566	EA		Three-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT).....	268.66	9.35
23 09 23 00-0567	EA		BACnet-Compliant Wall Sensor (Alerton TS-1050-BT).....	96.53	9.35
23 09 23 00-0568	EA		Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT).....	357.83	9.35
23 09 23 00-0569	EA		Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT).....	399.31	9.35
23 09 23 00-0570	EA		10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0).....	2,138.48	249.35
23 09 23 00-0571	EA		10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8).....	2,138.48	249.35
23 09 23 00-0572	EA		22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0).....	2,059.67	249.35
23 09 23 00-0573 Siemens Controls (23 09 23)					
23 09 23 00-0574	EA		Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083).....	201.35	15.59
23 09 23 00-0575	EA		Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085).....	177.26	15.59
23 09 23 00-0576	EA		SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575).....	227.37	70.19
23 09 23 00-0577	EA		-0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591).....	326.33	70.19
23 09 23 00-0578	EA		Spring Clip Mounting Kit For Thermostat (Siemens 182-685).....	37.79	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0579 EA Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001)	129.77	103.89
23 09 23 00-0580 EA 3/4" Two Way, Normally Closed, 6.3 Cv, Fx/F, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012)	211.18	19.38
23 09 23 00-0581 EA 1" Three Way, 10 Cv, Fx/F, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079)	373.77	35.20
23 09 23 00-0582 EA 1" Three Way, 10 Cv, Fx/F, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203)	714.02	35.20
23 09 23 00-0583 EA 1-1/4" Two Way, 16 Cv, Fx/F, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006)	612.74	44.58
23 09 23 00-0584 EA 36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36)	220.40	59.85
23 09 23 00-0585 EA -58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768)	178.75	33.24
23 09 23 00-0586 EA Unit Conditioner Controller With Secure Mode (Siemens 540-110C)	1,068.38	166.24
23 09 23 00-0587 EA 9-Pin, Female To RJ-11 Cable (Siemens 540-143)	62.20	
23 09 23 00-0588 EA Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800)	1,106.18	166.24
23 09 23 00-0589 EA MMI Extension Cable (Siemens 545-712)	98.94	
23 09 23 00-0590 EA Remote Pressure Transmitter (Siemens 547-003)	616.44	33.24
23 09 23 00-0591 EA Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400)	1,175.87	166.24
23 09 23 00-0592 EA BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433)	1,098.78	166.24
23 09 23 00-0593 EA Replacement Door Lock And Key Assembly (Siemens 567-225)	28.55	
23 09 23 00-0594 EA Insight Advanced Software Package (Siemens 571-010-381-USB)	7,736.84	
Note: Includes one user license and one sentinel key.		
23 09 23 00-0595 EA BACnet Client Option For Insight Advanced Software Package (Siemens 571-188)	375.46	
23 09 23 00-0596 EA Soft Controller Option For Insight Advanced Software Package (Siemens 571-620)	1,353.60	
23 09 23 00-0597 EA 1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059)	245.94	11.70
23 09 23 00-0598 EA 2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Glove Valve (Siemens 599-03062)	506.22	20.29
23 09 23 00-0599 EA Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C)	8,257.96	415.58
23 09 23 00-0600 EA SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modem With HOA (Siemens 986-83482F)	9,148.24	415.58
23 09 23 00-0601 EA 7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U)	90.48	15.59
23 09 23 00-0602 EA Two Position, 24 VAC/VDC, Standard Cabling, Dual Auxillary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U)	451.99	94.98
23 09 23 00-0603 EA Modulating, 0 To 10 VDC, , 24 VAC/VDC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U)	464.59	94.98
23 09 23 00-0604 EA License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36- PE.A (Siemens LSM-36.A)	2,738.19	
23 09 23 00-0605 EA License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN)	817.24	
23 09 23 00-0606 EA License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A)	1,895.47	
23 09 23 00-0607 EA License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM- FPWEB)	1,418.38	
23 09 23 00-0608 EA License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A)	1,293.84	
23 09 23 00-0609 EA License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP)	3,262.53	
23 09 23 00-0610 EA 16-Switch HOA Upgrade Kit (Siemens PXA16-M)	438.95	
23 09 23 00-0611 EA 16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR)	488.96	
23 09 23 00-0612 EA 8-Switch HOA Upgrade Kit (Siemens PXA8-M)	251.65	
23 09 23 00-0613 EA 18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18)	407.92	51.95
23 09 23 00-0614 EA 19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19)	603.53	51.95
23 09 23 00-0615 EA 34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34)	770.56	51.95
23 09 23 00-0616 EA Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24- Point Compact Series (Siemens PXA-HMI.CABLEP5)	29.43	
23 09 23 00-0617 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA)	644.68	51.95
23 09 23 00-0618 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA)	896.87	51.95
23 09 23 00-0619 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA)	737.59	51.95
23 09 23 00-0620 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA)	1,003.07	51.95
23 09 23 00-0621 EA PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A)	5,317.56	581.82
23 09 23 00-0622 EA PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A)	3,461.63	166.24
23 09 23 00-0623 EA Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A)	5,955.14	664.93
23 09 23 00-0624 EA 16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A)	2,493.06	311.69
23 09 23 00-0625 EA 16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A)	2,645.81	311.69
23 09 23 00-0626 EA 16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A)	2,493.06	311.69
23 09 23 00-0627 EA 24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A)	3,057.32	332.47
23 09 23 00-0628 EA 24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A)	3,133.67	332.47
23 09 23 00-0629 EA 24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A)	3,101.29	332.47
23 09 23 00-0630 EA 24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2- ERF.A)	3,249.01	332.47
23 09 23 00-0631 EA 24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A)	3,057.32	332.47
23 09 23 00-0632 EA 24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A)	3,173.01	332.47
23 09 23 00-0633 EA 36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A)	5,014.81	581.82
23 09 23 00-0634 EA 36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A)	7,596.29	664.93
23 09 23 00-0635 EA License To Enable The Island Bus On PXC00-E96.A And PXC00-PE96.A (Siemens PXF-TXIO.A)	1,060.50	
23 09 23 00-0636 EA Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S)	442.12	41.56
23 09 23 00-0637 EA Controller Mounted Operator Display Module (Siemens PXM10T)	579.39	83.12
23 09 23 00-0638 EA Provides FLN Support For The PXC Modular, Includes Three RS-485 P1 FLN Connections Or One MS/TP FLN Connection, Maximum Of 96 Devices Supported (Siemens PXX-485.3)	517.12	20.77
23 09 23 00-0639 EA Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN)	245.50	59.85
23 09 23 00-0640 EA Digital Temperature Room Unit for TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC)	165.68	33.24
23 09 23 00-0641 EA 4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010)	118.07	33.24

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0642 EA 8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....	182.19	59.85
23 09 23 00-0643 EA 24' Flexible Averaging Probe (Siemens QAM2012.750).....	239.67	59.85
23 09 23 00-0644 EA 2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....	233.85	59.85
23 09 23 00-0645 EA 10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....	2,004.56	334.75
23 09 23 00-0646 EA Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....	26.33	10.39
23 09 23 00-0647 EA Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....	0.33	
23 09 23 00-0648 EA 16 Digital Input Module (Siemens TXM1.16D).....	1,104.71	166.24
23 09 23 00-0649 EA 6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....	1,659.64	249.35
23 09 23 00-0650 EA 8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....	1,931.32	249.35
23 09 23 00-0651 EA 1.2 A, 4A Fuse, Power Supply (Siemens TXS1.12F4).....	433.12	33.24
23 09 23 00-0652 Cypress Envirosystems Controls (23 09 23)		
23 09 23 00-0653 Wireless Pneumatic Thermostat (23 09 23 00-0652)		
Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.		
23 09 23 00-0654 EA Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP).....	551.99	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-28.77
For >200, Deduct		-57.48
23 09 23 00-0655 EA Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP).....	551.99	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-28.77
For >200, Deduct		-57.48
23 09 23 00-0656 EA Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP).....	551.99	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-28.77
For >200, Deduct		-57.48
23 09 23 00-0657 EA Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP).....	551.99	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-28.77
For >200, Deduct		-57.48
23 09 23 00-0658 EA Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP-DB).....	629.04	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-33.05
For >200, Deduct		-66.04
23 09 23 00-0659 EA Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP-DB).....	629.04	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-33.05
For >200, Deduct		-66.04
23 09 23 00-0660 EA Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP-DB).....	629.04	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-33.05
For >200, Deduct		-66.04
23 09 23 00-0661 EA Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP-DB).....	629.04	10.39
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		-33.05
For >200, Deduct		-66.04
23 09 23 00-0662 EA Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV).....	43.42	10.39
Note: Optional cover.		
For >50 To 200, Deduct		-1.84
For >200, Deduct		-3.67
23 09 23 00-0663 EA Green Box Controller (Cypress Envirosystems GBC-800-001).....	3,358.34	10.39
Note: One unit for up to 100 thermostats.		
For 2, Deduct		-163.62
For >2, Deduct		-326.94
23 09 23 00-0664 EA WPT USB Hub (Cypress Envirosystems WPT-800-HUSB).....	378.01	10.39
Note: One unit for up to 100 thermostats.		
For 2, Deduct		-20.44
For >2, Deduct		-40.84
23 09 23 00-0665 EA WPT Repeater (Cypress Envirosystems WPT-800-RWAL).....	437.23	10.39
Note: One unit for up to 15 thermostats.		
For >5 To 10, Deduct		-21.42
For >10, Deduct		-42.80
23 09 23 00-0666 EA 24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V).....	551.92	10.39
Note: One unit for up to 15 thermostats.		
For >5 To 10, Deduct		-24.91
For >10, Deduct		-49.78
23 09 23 00-0667 Melink Intelli-Hood IH3 Controls (23 09 23)		
23 09 23 00-0668 Kitchen Ventilation Controllers (23 09 23 00-0667)		
23 09 23 00-0669 EA Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001).....	6,449.26	415.58
Note: RS-485 communication protocol supports up to 39 Hood Controllers, 10 graphical user interface devices, 10 auxiliary power supplies, and 10 auxiliary light controllers. Modbus VFD communications interface for support of up to 64 variable frequency drives, programmable I/O points include: 3 digital inputs, 4 digital outputs, 1 analog output, and 1 analog input. BACnet over TCP/IP Interface, Real-Time Clock with battery back-up.		
23 09 23 00-0670 EA Graphical User Interface (Melink Intelli-Hood 2KPD-3001).....	1,078.50	85.72
Note: Full color 2.5" display and programming interface device. RS-485 communication protocol for interface with main controller.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0671 EA Hood Controller (Melink Intelli-Hood 2SEN-3001).....	1,998.51	345.97
Note: 6 point field I/O device, RS-485 communication protocol, supports up to 4 field temperature sensors and 1 optic sensor system.		
23 09 23 00-0672 Kitchen Ventilation Sensors (23 09 23 00-0667)		
23 09 23 00-0673 EA Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q)	346.53	59.85
Note: Includes UL listed mounting compression fitting, stainless steel probe protection sleeve, RJ-45 communication connector.		
23 09 23 00-0674 EA Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28)	2,800.13	332.47
Note: Includes air purge unit, infrared emitter/receiver with stainless steel housings. Auto-calibration, 0.2 second response time, conformal-coated circuit boards, purge pipe assembly complete with UL listed compression fittings, communication interface cables and blower box assembly.		
23 09 23 00-0675 Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators (23 09 23)		
23 09 23 00-0676 Temperature Sensors (23 09 23 00-0675)		
23 09 23 00-0677 EA 10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....	175.97	59.85
23 09 23 00-0678 EA 10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO)	200.51	59.85
23 09 23 00-0679 EA 10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....	179.38	59.85
23 09 23 00-0680 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH)	177.75	59.85
23 09 23 00-0681 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....	223.60	59.85
23 09 23 00-0682 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....	186.85	59.85
23 09 23 00-0683 EA 10K Ohm Thermistor Duct Temperature Sensor With Non Metallic Handibox Housing (Kele ST-D24-XHP)	178.51	59.85
23 09 23 00-0684 EA 10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4)	195.22	59.85
23 09 23 00-0685 EA 10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW)	191.13	59.85
23 09 23 00-0686 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-O24).....	247.80	83.12
23 09 23 00-0687 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-O24-XC25).....	253.62	83.12
23 09 23 00-0688 EA Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA10K3-R-N-DF).....	101.77	33.24
23 09 23 00-0689 EA Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R).....	104.23	33.24
23 09 23 00-0690 EA Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP)	104.23	33.24
23 09 23 00-0691 Water Temperature Sensors (23 09 23 00-0675)		
23 09 23 00-0692 EA 5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....	130.69	64.31
23 09 23 00-0693 EA Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005).....	316.04	64.31
23 09 23 00-0694 Relative Humidity Sensors (23 09 23 00-0675)		
23 09 23 00-0695 EA 3% Duct Mounted RH Sensor (Kele HD30K).....	337.18	59.85
23 09 23 00-0696 EA 10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3)	346.90	59.85
23 09 23 00-0697 EA 3% RH Outdoor Air Sensor (Kele HO30K).....	403.83	83.12
23 09 23 00-0698 EA 2% Surface Mounted RH Transmitter (Kele HW20K)	277.41	33.24
23 09 23 00-0699 Pressure Sensors (23 09 23 00-0675)		
23 09 23 00-0700 EA Differential Pressure Transmitters With NEMA 1 Case, 0 To .5" W.C. (Kele T30-005).....	420.08	70.19
23 09 23 00-0701 EA Differential Pressure Transmitters With NEMA 1 Case, 0 To 5" W.C. (Kele T30-050).....	389.28	70.19
23 09 23 00-0702 EA Adjustable Differential Pressure Switches, .05 To 12" W.C. (Kele AFS-222).....	205.54	70.19
23 09 23 00-0703 EA Adjustable Differential Pressure Switches, .05 To 2" W.C. (Kele AFS-262).....	207.07	70.19
23 09 23 00-0704 EA Manual Reset Adjustable Differential Pressure Switches, .4 To 2" W.C. (Kele AFS-460)	217.99	70.19
23 09 23 00-0705 EA Adjustable Differential Pressure Switches, .05 To 12" W.C., 1/8" NPT (Kele AFS-145).....	204.55	70.19
23 09 23 00-0706 EA Water Differential Pressure Transmitter, 0 To 100psid, Bypass Valve Assembly Option (Kele 360C-P210D-BVA)	1,524.04	70.19
Note: Excludes pipe fittings.		
23 09 23 00-0707 EA Water Differential Pressure Transmitter, 0 To 60psid, Bypass Valve Assembly Option (Kele 360C-P160D-BVA)	1,524.04	70.19
Note: Excludes pipe fittings.		
23 09 23 00-0708 EA Magnahelic Gauge.....	494.02	42.91
23 09 23 00-0709 Water Flow Meters (23 09 23 00-0675)		
23 09 23 00-0710 EA Insertion Electromagnetic Water Flow Meter (Onicon F-3500)	2,770.84	98.46
Note: Excludes pipe fittings.		
23 09 23 00-0711 EA Dual Turbine Insertion Flow Meter With Analog Output (Onicon F-1210).....	181.42	32.82
Note: Excludes pipe fittings.		
23 09 23 00-0712 Air Flow Monitoring Stations (23 09 23 00-0675)		
23 09 23 00-0713 EA Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Ebtron GTA116)	2,214.96	110.53
Note: 10' cable, 36" x 24" typical duct size.		
23 09 23 00-0714 EA Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116)	3,125.48	110.53
Note: 10' cable, 48" x 36" typical duct size.		
23 09 23 00-0715 EA Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116)	3,859.56	110.53
Note: 10' cable, 60" x 48" typical duct size.		
23 09 23 00-0716 Gas Sensors (23 09 23 00-0675)		
23 09 23 00-0717 EA 6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B).....	1,153.20	49.87
23 09 23 00-0718 EA Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD)	436.77	33.24

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Instrumentation And Control For HVAC 23 09****Direct-Digital Control System For HVAC 23 09 23****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0719 EA CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2).....	926.46	49.87
Note: Solid state sensor.		
23 09 23 00-0720 EA CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD)	534.90	59.85
23 09 23 00-0721 Room Pressure Monitoring (23 09 23 00-0675)		
23 09 23 00-0722 EA Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8640-PM)	1,829.18	57.56
23 09 23 00-0723 EA Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8630-PC).....	2,887.62	57.56
Note: Excludes dampers and actuators.		
23 09 23 00-0724 EA Hospital Room Pressure Status Remote Visual Display (TSI 8694-4).....	249.24	34.53
23 09 23 00-0725 EA Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7)	283.02	34.53
23 09 23 00-0726 Current Switches And Current Sensors (23 09 23 00-0675)		
23 09 23 00-0727 EA Current Sensor, 0-20 Amp, 0-5 Volt DC (Senva C-1203)	99.34	33.24
23 09 23 00-0728 EA Current Sensor, 0-20 Amp, 4-20mA (Senva C-1205)	101.36	33.24
23 09 23 00-0729 EA VFD Current Switch, 0.5-135 Amp Range, Split Core (Senva C-2350VFD-L)	122.67	33.24
23 09 23 00-0730 EA Current Switch, 0.15-100 Amp Range, Split Core With NC Command Relay (Senva C-2300 And CR4-24)	105.45	33.24
23 09 23 00-0731 EA DC Current Sensor, Split Core, 0-50/100/200 Amp (Selectable), 4-20mA, 0-5 Volt DC (Veris H970HCA).....	173.75	33.24
23 09 23 00-0732 EA DC Current Sensor, Split Core, 0-20/40/80 Amp (Selectable), 0-20mA, 0-5 Volt DC (Veris H970LCC)	173.75	33.24
23 09 23 00-0733 EA Current Switch, 1-135 Amp, N.O. Contact 1A @ 110 Volt (Veris H709).....	124.10	33.24
23 09 23 00-0734 EA Current Switch, 0-10/20/40 Amp, 4-20mA Analog Output, Solid Core, Loop Powered (Veris H721).....	133.07	33.24
23 09 23 00-0735 EA Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC).....	3,051.81	166.24
23 09 23 00-0736 EA Power Transducer, Modbus RTU, 100 Amp (Veris H8035-0100-2).....	479.59	33.24
Note: 3 phase networked transducer.		
23 09 23 00-0737 EA Energy Meter, Three Current Switches, Pulse Output, Phase Loss Alarm Output, 2,400 Amp (Veris H8163-2400- 4-3).....	700.83	33.24
23 09 23 00-0738 EA Current Transducer, 0-20 Amp, 0-5 Volt DC (Kele 4CTV)	171.00	33.24
23 09 23 00-0739 EA Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800)	254.69	88.31
23 09 23 00-0740 EA Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900).....	262.12	88.31
23 09 23 00-0741 EA Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708)	270.61	88.31
23 09 23 00-0742 EA Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908).....	281.23	88.31
23 09 23 00-0743 EA Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904)	306.67	88.31
23 09 23 00-0744 EA Toggle Switch	111.31	41.56
23 09 23 00-0745 EA Maintained Pushbutton Switch.....	116.09	41.56
23 09 23 00-0746 EA Manual Time Switch	161.16	41.56
23 09 23 00-0747 EA Emergency Stop Switch.....	241.76	41.56
23 09 23 00-0748 EA Float Switch	275.68	41.56
23 09 23 00-0749 EA Break Glass Switch.....	757.16	41.56
23 09 23 00-0750 EA Boiler E-Stop Switch.....	553.45	41.56
23 09 23 00-0751 Relays (23 09 23 00-0675)		
23 09 23 00-0752 EA DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V)	93.25	33.24
23 09 23 00-0753 EA SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1).....	102.47	33.24
23 09 23 00-0754 EA SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B).....	132.39	41.56
Note: Box type.		
23 09 23 00-0755 EA Motor Starter Interface, 300msec Pulse (Kele PIL-2)	153.67	33.24
23 09 23 00-0756 EA DP Relay Socket, DIN Rail Mounted (Kele SH2B-05)	89.70	33.24
23 09 23 00-0757 EA SP Relay Socket, DIN Rail Mounted (Kele SH1B-05).....	88.02	33.24
23 09 23 00-0758 EA SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V)	92.21	33.24
23 09 23 00-0759 EA DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V)	88.42	33.24
23 09 23 00-0760 EA SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-ULAC24V)	95.62	33.24
23 09 23 00-0761 EA SPDT Pilot Relay, Universal (Kele RIBU1C).....	123.10	41.56
Note: Box type.		
23 09 23 00-0762 EA SPST Pilot Relay With HOA Switch (Kele RIBU1S)	131.43	41.56
Note: Box type.		
23 09 23 00-0763 EA SPDT 3 Phase Line Voltage Monitor, .1-5 Minute Delay On Break Timer (ICM400)	240.72	41.56
23 09 23 00-0764 EA SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450)	281.26	41.56
23 09 23 00-0765 Surge Protectors (23 09 23 00-0675)		
23 09 23 00-0766 EA Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255)	186.05	8.32
23 09 23 00-0767 EA Surge Protector, 1AC Outlet (Transtector TR2251)	142.44	8.32
23 09 23 00-0768 EA Surge Protector, 2 AC Outlets (Transtector TR2254)	217.48	8.32
23 09 23 00-0769 EA Surge Protector, DB-15 Connection (Transtector TR2259-DLP15)	121.14	8.32
23 09 23 00-0770 EA Surge Protector, DB-25 Connection (Transtector TR2259-DLP25)	121.14	8.32
23 09 23 00-0771 EA Surge Protector, DB-9 Connection (Transtector TR2259-DLP9)	121.14	8.32
23 09 23 00-0772 EA Surge Protector, Individual Wire Connection (Transtector TR2258)	171.85	8.32
23 09 23 00-0773 EA Surge Protector, Trane Communication Links (Transtector TR2257)	108.97	8.32
23 09 23 00-0774 Transformers (23 09 23 00-0675)		
23 09 23 00-0775 EA 50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA)	110.14	33.24
23 09 23 00-0776 EA 75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB)	117.56	33.24
23 09 23 00-0777 EA 75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA)	120.85	33.24
23 09 23 00-0778 EA 100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB)	124.30	33.24
23 09 23 00-0779 EA 100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA)	132.79	33.24

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0780 Power Supplies (23 09 23 00-0675)		
23 09 23 00-0781 EA Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA).....	135.91	33.24
23 09 23 00-0782 EA AC/DC Power Supply, 1.2 Amp @ 24 Volt Output (Kele DCPA-1.2).....	156.22	33.24
23 09 23 00-0783 EA DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524).....	144.86	33.24
23 09 23 00-0784 EA DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D).....	149.03	33.24
23 09 23 00-0785 EA DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H).....	149.03	33.24
23 09 23 00-0786 EA DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P).....	149.03	33.24
23 09 23 00-0787 EA DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amp (Kele DCP-1.5-W-C).....	124.52	33.24
23 09 23 00-0788 Control Damper Actuators (23 09 23 00-0675)		
23 09 23 00-0789 EA 44 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR).....	458.67	95.12
23 09 23 00-0790 EA 90 IN-LB, 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR).....	476.76	95.12
23 09 23 00-0791 EA 90 IN-LB, 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP).....	537.45	95.12
23 09 23 00-0792 EA 175 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR).....	549.16	95.12
23 09 23 00-0793 EA 90 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR).....	576.84	95.12
23 09 23 00-0794 EA 360 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR).....	618.36	95.12
23 09 23 00-0795 Valves With Actuator (23 09 23 00-0675)		
23 09 23 00-0796 EA 1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G215+NV24-MFT US).....	426.68	14.38
23 09 23 00-0797 EA 3/4" 2-Way Bronze Globe Valve With Actuator (Belimo G220+NV24-MFT US).....	445.58	19.38
23 09 23 00-0798 EA 1" 2-Way Bronze Globe Valve With Actuator (Belimo B225+NV24-MFT US).....	489.84	23.46
23 09 23 00-0799 EA 1-1/4" 2-Way Bronze Globe Valve With Actuator (Belimo B232+NV24-MFT US).....	538.48	29.72
23 09 23 00-0800 EA 1-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G240+NV24-MFT US).....	613.80	34.30
23 09 23 00-0801 EA 2" 2-Way Bronze Globe Valve With Actuator (Belimo G250+NV24-MFT US).....	695.41	40.53
23 09 23 00-0802 EA 2-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G665+GMX24-MFTX1).....	1,305.62	81.06
23 09 23 00-0803 EA 3" 2-Way Bronze Globe Valve With Actuator (Belimo G680+GMX24-MFTX1).....	1,422.11	94.86
23 09 23 00-0804 EA 4" 2-Way Bronze Globe Valve With Actuator (Belimo G6100C+GMX24-MFTX1).....	1,930.37	139.34
23 09 23 00-0805 EA 5" 2-Way Bronze Globe Valve With Actuator (Belimo G6125C+GMX24-MFTX1).....	2,835.99	201.36
23 09 23 00-0806 EA 6" 2-Way Bronze Globe Valve With Actuator (Belimo G6150C+GMX24-MFTX1).....	3,141.18	222.93
23 09 23 00-0807 EA 1-1/4" 3-Way Bronze Globe Valve With Actuator (Belimo G315+NV24-MFT US).....	464.89	21.57
23 09 23 00-0808 EA 3/4" 3-Way Bronze Globe Valve With Actuator (Belimo G320+NV24-MFT US).....	485.77	29.08
23 09 23 00-0809 EA 1" 3-Way Bronze Globe Valve With Actuator (Belimo G325+NV24-MFT US).....	529.82	35.20
23 09 23 00-0810 EA 1-1/4" 3-Way Bronze Globe Valve With Actuator (Belimo G332+NV24-MFT US).....	592.68	44.58
23 09 23 00-0811 EA 1-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G340+NV24-MFT US).....	755.68	51.45
23 09 23 00-0812 EA 2" 3-Way Bronze Globe Valve With Actuator (Belimo G350+NV24-MFT US).....	841.87	60.80
23 09 23 00-0813 EA 2-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G765+GMX24-MFTX1).....	1,500.64	121.60
23 09 23 00-0814 EA 3" 3-Way Bronze Globe Valve With Actuator (Belimo G780+GMX24-MFTX1).....	1,657.78	142.30
23 09 23 00-0815 EA 4" 3-Way Bronze Globe Valve With Actuator (Belimo G7100+2*GMX24-MFTX1).....	2,414.29	209.00
23 09 23 00-0816 EA 5" 3-Way Bronze Globe Valve With Actuator (Belimo G7125+2*GMX24-MFTX1).....	3,500.77	302.03
23 09 23 00-0817 EA 6" 3-Way Bronze Globe Valve With Actuator (Belimo G7150+2*GMX24-MFTX1).....	3,890.43	334.39
23 09 23 00-0818 EA 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE215N-35+ZONE24NC).....	122.19	14.38
23 09 23 00-0819 EA 3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE220N-50+ZONE24NC).....	143.22	19.38
23 09 23 00-0820 EA 1" Two Way Brass Zone Valve With Actuator (Belimo ZONE225N-80+ZONE24NC).....	181.21	23.46
23 09 23 00-0821 EA 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE315N-35+ZONE24NC).....	148.70	21.57
23 09 23 00-0822 EA 3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE320N-50+ZONE24NC).....	174.90	29.08
23 09 23 00-0823 EA 1" Two Way Brass Zone Valve With Actuator (Belimo ZONE325N-80+ZONE24NC).....	218.95	35.20
23 09 23 00-0824 EA 1/2" 2-Way Brass Ball Valve With Actuator (Belimo B215B+LRB24-3).....	166.91	14.38
23 09 23 00-0825 EA 3/4" 2-Way Brass Ball Valve With Actuator (Belimo B220B+LRB24-3).....	215.60	19.38
23 09 23 00-0826 EA 1" 2-Way Brass Ball Valve With Actuator (Belimo B225+LRB24-3).....	225.81	23.46
23 09 23 00-0827 EA 1-1/4" 2-Way Brass Ball Valve With Actuator (Belimo B232+ARB24-3).....	294.69	29.72
23 09 23 00-0828 EA 1-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B240+ARB24-3).....	306.13	34.30
23 09 23 00-0829 EA 2" 2-Way Brass Ball Valve With Actuator (Belimo B250+ARB24-3).....	387.70	40.53
23 09 23 00-0830 EA 2-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B265+ARB24-3).....	829.74	81.06
23 09 23 00-0831 EA 3" 2-Way Brass Ball Valve With Actuator (Belimo B280+ARB24-3).....	973.90	94.86
23 09 23 00-0832 EA 1/2" 3-Way Brass Ball Valve With Actuator (Belimo B315B+LRB24-3).....	204.06	21.57
23 09 23 00-0833 EA 3/4" 3-Way Brass Ball Valve With Actuator (Belimo B320B+LRB24-3).....	237.73	29.08
23 09 23 00-0834 EA 1" 3-Way Brass Ball Valve With Actuator (Belimo B325+LRB24-3).....	305.19	35.20
23 09 23 00-0835 EA 1-1/4" 3-Way Brass Ball Valve With Actuator (Belimo B331+ARB24-3).....	430.85	44.58
23 09 23 00-0836 EA 1-1/2" 3-Way Brass Ball Valve With Actuator (Belimo B341+ARB24-3).....	456.52	51.45
23 09 23 00-0837 EA 2" 3-Way Brass Ball Valve With Actuator (Belimo B352+ARB24-3).....	595.93	60.80
23 09 23 00-0838 EA 2" 2-Way Butterfly Valve With Actuator (Belimo F650HD+AMB24-3X1).....	509.43	74.31
23 09 23 00-0839 EA 2-1/2" 2-Way Butterfly Valve With Actuator (Belimo F665HD+AMB24-3X1).....	535.90	81.06
23 09 23 00-0840 EA 3" 2-Way Butterfly Valve With Actuator (Belimo F680HD+GMB24-3X1).....	697.09	94.86
23 09 23 00-0841 EA 4" 2-Way Butterfly Valve With Actuator (Belimo F6100HD+2*GMB24-3X1).....	1,108.19	159.24
23 09 23 00-0842 EA 5" 2-Way Butterfly Valve With Actuator (Belimo F6125HD+SY2-24).....	2,042.84	201.36
23 09 23 00-0843 EA 6" 2-Way Butterfly Valve With Actuator (Belimo F6150HD+SY3-24).....	2,211.75	222.93
23 09 23 00-0844 EA 8" 2-Way Butterfly Valve With Actuator (Belimo F6200HD+SY4-24).....	3,038.74	254.78
23 09 23 00-0845 EA 10" 2-Way Butterfly Valve With Actuator (Belimo F6250HD+SY4-24).....	3,810.10	312.11
23 09 23 00-0846 EA 12" 2-Way Butterfly Valve With Actuator (Belimo F6300HS+SY4-24).....	4,513.34	378.31
23 09 23 00-0847 EA 14" 2-Way Butterfly Valve With Actuator (Belimo F6350HD+SY5-24).....	5,030.38	445.86
23 09 23 00-0848 EA 16" 2-Way Butterfly Valve With Actuator (Belimo F6400HD+SY6-110).....	6,593.99	490.45
23 09 23 00-0849 EA 18" 2-Way Butterfly Valve With Actuator (Belimo F6450HD+SY8-110).....	7,961.76	544.84



Heating, Ventilating, And Air-Conditioning (HVAC)

23

Instrumentation And Control For HVAC 23 09

Direct-Digital Control System For HVAC 23 09 23

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0850	EA		2" 3-Way Butterfly Valve With Actuator (Belimo F750HD+AMB24-3X1).....	924.90	111.46
23 09 23 00-0851	EA		2-1/2" 3-Way Butterfly Valve With Actuator (Belimo F765HD+GMB24-3X1).....	1,083.32	121.60
23 09 23 00-0852	EA		3" 3-Way Butterfly Valve With Actuator (Belimo F780HD+2"GMB24-3X1).....	1,333.08	142.30
23 09 23 00-0853	EA		4" 3-Way Butterfly Valve With Actuator (Belimo F7100HD+2"GMB24-3X1).....	1,809.74	238.85
23 09 23 00-0854	EA		5" 3-Way Butterfly Valve With Actuator (Belimo F7125HD+SY3-24).....	3,269.74	302.03
23 09 23 00-0855	EA		6" 3-Way Butterfly Valve With Actuator (Belimo F7150HD+SY3-24).....	3,734.98	334.39
23 09 23 00-0856	EA		8" 3-Way Butterfly Valve With Actuator (Belimo F7200HD+SY4-24).....	4,597.61	382.20
23 09 23 00-0857	EA		10" 3-Way Butterfly Valve With Actuator (Belimo F7250HD+SY4-24).....	6,065.56	468.16
23 09 23 00-0858	EA		12" 3-Way Butterfly Valve With Actuator (Belimo F7300HD+SY5-24).....	5,770.86	567.47
23 09 23 00-0859	EA		14" 3-Way Butterfly Valve With Actuator (Belimo F7350HD+SY6-110).....	7,191.63	668.79
23 09 23 00-0860	EA		16" 3-Way Butterfly Valve With Actuator (Belimo F7400HD+SY7-110).....	12,794.22	735.67
23 09 23 00-0861	EA		18" 3-Way Butterfly Valve With Actuator (Belimo F7450HD+SY8-110).....	18,935.71	817.27
23 09 23 00-0862 Valve Actuators (23 09 23 00-0675)					
23 09 23 00-0863	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-T).....	396.02	92.09
23 09 23 00-0864	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 95 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3).....	403.68	92.09
23 09 23 00-0865	EA		24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR-T).....	436.42	92.09
23 09 23 00-0866	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-S).....	447.74	92.09
23 09 23 00-0867	EA		24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR).....	450.60	92.09
23 09 23 00-0868	EA		24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT).....	495.12	92.09
23 09 23 00-0869	EA		24 Volt AC/DC Power Supply, On/Off Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-1).....	516.20	92.09
23 09 23 00-0870	EA		24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT95).....	524.33	92.09
23 09 23 00-0871	EA		24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-MFT).....	543.96	92.09
23 09 23 00-0872	EA		120 Volt AC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-3).....	428.11	92.09
23 09 23 00-0873	EA		120 Volt AC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-SR).....	469.28	92.09
23 09 23 00-0874	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-T).....	469.28	92.09
23 09 23 00-0875	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3).....	475.51	92.09
23 09 23 00-0876	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARB24-3-5-14).....	482.37	92.09
23 09 23 00-0877	EA		24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-S).....	523.86	92.09
23 09 23 00-0878	EA		24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T).....	538.21	92.09
23 09 23 00-0879	EA		24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR).....	544.44	92.09
23 09 23 00-0880	EA		24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, Variable Run Time (90 To 350 Seconds), 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT).....	557.96	92.09
23 09 23 00-0881	EA		24 Volt AC/DC Power Supply, Phasecut Control Input, 95 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-PC).....	559.77	92.09
23 09 23 00-0882	EA		24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT95).....	564.55	92.09
23 09 23 00-0883	EA		24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, NEMA 4X, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T N4).....	674.66	92.09
23 09 23 00-0884	EA		24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, NEMA 4X, Variable Run Time (75 To 350 Seconds), 160 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT-T N4).....	715.36	92.09
23 09 23 00-0885	EA		100-240 Volt AC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-3).....	515.72	92.09
23 09 23 00-0886	EA		100-240 Volt AC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-SR).....	588.01	92.09
23 09 23 00-0887	EA		24 Volt AC/DC Power Supply, On/Off Control Input, 15 Seconds Run Time, 801 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY2-24).....	1,341.58	92.09
23 09 23 00-0888	EA		24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 1,335 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY3-24).....	1,486.16	92.09
23 09 23 00-0889	EA		24 Volt AC/DC Power Supply, On/Off Control Input, 16 Seconds Run Time, 3,560 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY4-24).....	1,797.36	92.09
23 09 23 00-0890	EA		24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 4,450 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY5-24).....	2,015.19	92.09
23 09 23 00-0891	EA		120 Volt AC Power Supply, On/Off Control Input, 28 Seconds Run Time, 5,785 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY6-110).....	2,343.14	92.09
23 09 23 00-0892	EA		120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 8,900 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY7-110).....	2,743.87	92.09
23 09 23 00-0893	EA		120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 13,350 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY8-110).....	3,575.00	92.09
23 09 23 00-0894	EA		120 Volt AC Power Supply, On/Off Control Input, 58 Seconds Run Time, 17,800 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY9-110).....	4,351.06	92.09

23 09 23 00-0895

Rectangular Volume Control Dampers (23 09 23 00-0675)

Note: Excludes actuators.

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 00-0896 EA 8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008).....	138.97	35.69
23 09 23 00-0897 EA 10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010).....	155.74	39.15
23 09 23 00-0898 EA 12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012).....	173.65	43.18
23 09 23 00-0899 EA 14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014).....	201.38	50.66
23 09 23 00-0900 EA 16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016).....	227.97	57.56
23 09 23 00-0901 EA 18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018).....	235.99	64.76
23 09 23 00-0902 EA 20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020).....	283.39	71.95
23 09 23 00-0903 EA 24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024).....	338.77	86.35
23 09 23 00-0904 EA 32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032).....	426.65	100.74
23 09 23 00-0905 EA 48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048).....	605.00	115.13
23 09 23 00-0906 EA 60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060).....	1,042.07	129.53
23 09 23 00-0907 EA 72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072).....	1,306.67	143.92
23 09 23 00-0908 Round Control Galvanized Dampers (23 09 23 00-0675) Note: Excludes actuators.		
23 09 23 00-0909 EA 6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06).....	145.44	43.18
23 09 23 00-0910 EA 8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08).....	145.49	43.18
23 09 23 00-0911 EA 10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10).....	150.23	43.18
23 09 23 00-0912 EA 12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12).....	156.08	43.18
23 09 23 00-0913 EA 14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14).....	173.64	43.18
23 09 23 00-0914 EA 16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16).....	204.56	57.56
23 09 23 00-0915 EA 18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18).....	273.49	60.59
23 09 23 00-0916 EA 20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20).....	285.39	62.81
23 09 23 00-0917 EA 22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22).....	303.95	67.70
23 09 23 00-0918 EA 24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24).....	322.76	72.61
23 09 23 00-0919 Peco Thermostats and Sensors (23 09 23 00-0675)		
23 09 23 00-0920 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-1AQ).....	317.81	15.59
23 09 23 00-0921 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....	400.11	15.59
23 09 23 00-0922 EA Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....	176.43	23.37
23 09 23 00-0923 EA Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....	150.89	23.37
23 09 23 00-0924 EA Wall/Ceiling Mount Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001).....	231.71	23.37
23 09 23 00-0925 EA Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002).....	200.36	23.37
23 09 23 00-0926 EA Door Switch Occupancy Sensor (Peco SE200-001).....	55.41	23.37
23 09 23 00-0927 EA Window Switch Occupancy Sensor (Peco SE200-002).....	53.74	23.37
23 09 23 00-0928 EA Power Pack And Controller (Peco SF200-001).....	93.26	23.37
23 10 Facility Fuel Systems (23)		
23 11 Facility Fuel Piping (23 10)		
23 11 23 Facility Natural-Gas Piping (23 11)		
23 11 23 00-0001 Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)		
23 11 23 00-0002 Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001) Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.		
23 11 23 00-0003 LF 3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	5.25	1.96
23 11 23 00-0004 LF 1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	5.75	2.11
23 11 23 00-0005 LF 3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	6.80	2.29
23 11 23 00-0006 LF 1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	8.40	2.42
23 11 23 00-0007 LF 1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	9.79	2.54
23 11 23 00-0008 LF 1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	14.43	2.64
23 11 23 00-0009 LF 2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	19.25	2.82
23 11 23 00-0010 Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
23 11 23 00-0011 Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0012 EA 3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	25.31	
23 11 23 00-0013 EA 3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	25.31	
23 11 23 00-0014 EA 1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	27.12	
23 11 23 00-0015 EA 1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	27.12	
23 11 23 00-0016 EA 3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	32.03	
23 11 23 00-0017 EA 1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	42.70	
23 11 23 00-0018 EA 1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	42.70	
23 11 23 00-0019 EA 1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	69.55	
23 11 23 00-0020 EA 1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	123.51	
23 11 23 00-0021 EA 2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	197.07	
23 11 23 00-0022 Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Piping

23 11**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0023 EA 3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	24.63	
23 11 23 00-0024 EA 1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	27.12	
23 11 23 00-0025 EA 1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	27.12	
23 11 23 00-0026 EA 3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.03	
23 11 23 00-0027 EA 3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.03	
23 11 23 00-0028 EA 1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.03	
23 11 23 00-0029 EA 1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.03	
23 11 23 00-0030 Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0031 EA 3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.43	
23 11 23 00-0032 EA 1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.64	
23 11 23 00-0033 Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0034 EA 3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	32.70	
23 11 23 00-0035 EA 1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	36.12	
23 11 23 00-0036 EA 3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	44.55	
23 11 23 00-0037 EA 1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	62.24	
23 11 23 00-0038 EA 1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	112.75	
23 11 23 00-0039 EA 1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	215.70	
23 11 23 00-0040 EA 2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	355.03	
23 11 23 00-0041 Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0042 EA 1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.53	
23 11 23 00-0043 EA 3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	70.15	
23 11 23 00-0044 EA 1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	107.97	
23 11 23 00-0045 EA 1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	181.63	
23 11 23 00-0046 EA 1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	195.07	
23 11 23 00-0047 EA 2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	223.25	
23 11 23 00-0048 Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0049 EA 3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	29.74	
23 11 23 00-0050 EA 1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	30.88	
23 11 23 00-0051 EA 3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.49	
23 11 23 00-0052 EA 1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	43.81	
23 11 23 00-0053 EA 1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	44.38	
23 11 23 00-0054 Outdoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0055 EA 3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.39	
23 11 23 00-0056 EA 1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.42	
23 11 23 00-0057 EA 3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	38.87	
23 11 23 00-0058 EA 1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.32	
23 11 23 00-0059 EA 1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.32	
23 11 23 00-0060 Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0061 EA 3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	54.89	
23 11 23 00-0062 EA 1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	56.28	
23 11 23 00-0063 EA 3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	58.78	
23 11 23 00-0064 EA 1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	87.53	
23 11 23 00-0065 EA 1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	90.72	
23 11 23 00-0066 EA 1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	126.27	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0067	EA	2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	154.57		
23 11 23 00-0068		Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
23 11 23 00-0069	EA	3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	57.46		
23 11 23 00-0070	EA	1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	58.80		
23 11 23 00-0071	EA	3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	64.07		
23 11 23 00-0072	EA	1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	107.75		
23 11 23 00-0073	EA	1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	111.11		
23 11 23 00-0074	EA	1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	149.00		
23 11 23 00-0075	EA	2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	185.36		
23 11 23 00-0076		Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
23 11 23 00-0077	EA	1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.03		
23 11 23 00-0078	EA	3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	34.47		
23 11 23 00-0079	EA	1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	50.18		
23 11 23 00-0080	EA	1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	74.78		
23 11 23 00-0081	EA	1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	140.56		
23 11 23 00-0082	EA	2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	220.76		
23 11 23 00-0083		Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
		Note: Includes mounting plate.			
23 11 23 00-0084	EA	1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	27.76		
23 11 23 00-0085	EA	3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	30.14		
23 11 23 00-0086	EA	1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	27.78		
23 11 23 00-0087	EA	1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	27.86		
23 11 23 00-0088	EA	3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	29.12		
23 11 23 00-0089	EA	1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	34.07		
23 11 23 00-0090	EA	1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	40.33		
23 11 23 00-0091		Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
		Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.			
23 11 23 00-0092	EA	1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	77.14	20.51	
23 11 23 00-0093	EA	3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	86.37	21.53	
23 11 23 00-0094		Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
23 11 23 00-0095	EA	3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	56.87	17.94	
23 11 23 00-0096	EA	1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	66.39	21.33	
23 11 23 00-0097	EA	3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	81.18	25.65	
23 11 23 00-0098	EA	1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	102.56	34.26	
23 11 23 00-0099		Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
		Note: Includes mounting hardware.			
23 11 23 00-0100	EA	1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	69.51	21.33	
23 11 23 00-0101	EA	3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	79.54	25.65	
23 11 23 00-0102	EA	1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	73.74	21.33	
23 11 23 00-0103	EA	3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	82.28	25.65	
23 11 23 00-0104	EA	2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	164.08	64.10	
23 11 23 00-0105		Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)			
23 11 23 00-0106	EA	1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.94	21.33	
23 11 23 00-0107	EA	1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.94	21.33	
23 11 23 00-0108	EA	1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	98.24	21.33	
23 11 23 00-0109	EA	3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	106.78	25.65	
23 11 23 00-0110	EA	3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	106.78	25.65	
23 11 23 00-0111	EA	1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	123.87	34.26	
23 11 23 00-0112	EA	1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	179.31	38.46	
23 11 23 00-0113	EA	1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	93.76	21.33	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Piping

23 11**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0114 EA 3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	221.37	25.65
23 11 23 00-0115 EA 1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	527.10	38.46
23 11 23 00-0116 Gas Stops (23 11 23)		
23 11 23 00-0117 Brass Gas Stops (23 11 23 00-0116)		
Note: Flat or square head		
23 11 23 00-0118 EA 3/8" Brass Gas Stop	43.02	11.14
23 11 23 00-0119 EA 1/2" Brass Gas Stop	42.27	11.14
23 11 23 00-0120 EA 3/4" Brass Gas Stop	56.21	12.26
23 11 23 00-0121 EA 1" Brass Gas Stop	73.60	13.93
23 11 23 00-0122 EA 1-1/4" Brass Gas Stop	95.77	14.82
23 11 23 00-0123 EA 1-1/2" Brass Gas Stop	116.15	17.16
23 11 23 00-0124 EA 2" Brass Gas Stop	150.99	20.28
23 11 23 00-0125 Iron Body Gas Stops (23 11 23 00-0116)		
23 11 23 00-0126 EA 1/2" Iron Body Gas Stop	49.80	11.14
23 11 23 00-0127 EA 3/4" Iron Body Gas Stop	63.62	12.26
23 11 23 00-0128 EA 1" Iron Body Gas Stop	78.07	13.93
23 11 23 00-0129 EA 1-1/4" Iron Body Gas Stop	100.11	14.82
23 11 23 00-0130 EA 1-1/2" Iron Body Gas Stop	121.60	17.16
23 11 23 00-0131 EA 2" Iron Body Gas Stop	152.23	20.28
23 11 23 00-0132 EA 2-1/2" Iron Body Gas Stop	261.02	27.38
23 11 23 00-0133 EA 3" Iron Body Gas Stop	335.57	31.80
23 11 23 00-0134 Bronze Body Solenoid Valves, 150 PSI Gas (23 11 23)		
23 11 23 00-0135 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Gas	93.34	11.14
23 11 23 00-0136 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Gas	107.74	11.14
23 11 23 00-0137 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Gas	138.74	12.26
23 11 23 00-0138 EA 1" Solenoid Valve, Bronze, 150 PSI, Gas	200.06	13.93
23 11 23 00-0139 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas	346.79	17.16
23 11 23 00-0140 EA 2" Solenoid Valve, Bronze, 150 PSI, Gas	564.65	20.28
23 11 23 00-0141 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas	705.97	27.38
23 11 23 00-0142 EA 3" Solenoid Valve, Bronze, 150 PSI, Gas	1,036.08	31.80
23 11 33 Facility Fiberglass Reinforced Piping (23 11)		
23 11 33 00-0001 Fiberglass Reinforced Plastic Pipe And Fittings (23 11 33)		
23 11 33 00-0002 Fiberglass Reinforced Plastic Pipe (23 11 33 00-0001)		
Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (include in modifier for use as inner pipe).		
23 11 33 00-0003 LF 2" Fiberglass Reinforced Plastic Pipe	17.50	7.39
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-8.27	
23 11 33 00-0004 LF 3" Fiberglass Reinforced Plastic Pipe	20.98	8.82
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-9.92	
23 11 33 00-0005 LF 4" Fiberglass Reinforced Plastic Pipe	28.38	13.03
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-14.61	
23 11 33 00-0006 LF 5" Fiberglass Reinforced Plastic Pipe	33.05	14.98
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-16.46	
23 11 33 00-0007 LF 6" Fiberglass Reinforced Plastic Pipe	38.42	16.72
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-18.84	
23 11 33 00-0008 LF 8" Fiberglass Reinforced Plastic Pipe	49.57	18.89
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-21.23	
23 11 33 00-0009 LF 10" Fiberglass Reinforced Plastic Pipe	64.78	22.46
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-25.31	
23 11 33 00-0010 LF 12" Fiberglass Reinforced Plastic Pipe	74.64	28.29
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-31.83	
23 11 33 00-0011 Fiberglass Reinforced Plastic Fittings (23 11 33 00-0001)		
23 11 33 00-0012 Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 33 00-0011)		
23 11 33 00-0013 EA 2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	142.48	73.54
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-82.71	
23 11 33 00-0014 EA 3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	168.83	88.31
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-99.26	
23 11 33 00-0015 EA 4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	200.68	102.56
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-115.31	
23 11 33 00-0016 EA 5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	232.61	111.74
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-123.27	
23 11 33 00-0017 EA 6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	277.51	125.38
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-140.97	
23 11 33 00-0018 EA 8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	388.17	156.67
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-176.21	
23 11 33 00-0019 EA 10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	493.60	188.72
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-212.21	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 33 00-0020 EA 12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	580.54 -263.15	234.02
23 11 33 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 33 00-0011)		
23 11 33 00-0022 EA 2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	142.73 -82.71	73.54
23 11 33 00-0023 EA 3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	168.91 -99.26	88.31
23 11 33 00-0024 EA 4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	200.94 -115.39	102.66
23 11 33 00-0025 EA 5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	247.76 -134.61	121.94
23 11 33 00-0026 EA 6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	277.43 -140.97	125.38
23 11 33 00-0027 EA 8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	388.17 -176.21	156.67
23 11 33 00-0028 EA 10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	453.00 -212.21	188.72
23 11 33 00-0029 EA 12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow For Use As Inner Pipe In Double Wall Pipe System, Deduct	580.54 -263.15	234.02
23 11 33 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 33 00-0011)		
23 11 33 00-0031 EA 2" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	200.77 -124.07	110.36
23 11 33 00-0032 EA 3" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	244.21 -149.42	132.92
23 11 33 00-0033 EA 4" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	281.05 -173.09	153.95
23 11 33 00-0034 EA 5" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	338.55 -202.00	182.87
23 11 33 00-0035 EA 6" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	371.11 -212.21	188.72
23 11 33 00-0036 EA 8" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	462.99 -263.15	234.02
23 11 33 00-0037 EA 10" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	637.06 -318.32	283.07
23 11 33 00-0038 EA 12" Fiberglass Reinforced Plastic Flanged Tee For Use As Inner Pipe In Double Wall Pipe System, Deduct	812.62 -386.98	344.16
23 11 33 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 33 00-0011)		
23 11 33 00-0040 EA 2" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	224.69 -124.07	110.36
23 11 33 00-0041 EA 3" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	278.20 -149.24	132.72
23 11 33 00-0042 EA 4" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	324.53 -173.08	153.95
23 11 33 00-0043 EA 5" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	375.59 -202.00	182.87
23 11 33 00-0044 EA 6" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	401.70 -212.21	188.72
23 11 33 00-0045 EA 8" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	511.36 -263.15	234.02
23 11 33 00-0046 EA 10" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	698.06 -318.32	283.07
23 11 33 00-0047 EA 12" Fiberglass Reinforced Plastic Flanged Wye For Use As Inner Pipe In Double Wall Pipe System, Deduct	879.12 -386.98	344.16
23 11 33 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 33 00-0011)		
23 11 33 00-0049 EA 2" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	140.23 -82.71	73.54
23 11 33 00-0050 EA 3" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	173.64 -99.26	88.31
23 11 33 00-0051 EA 4" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	197.10 -115.39	102.66
23 11 33 00-0052 EA 5" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	229.46 -134.61	121.94
23 11 33 00-0053 EA 6" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	244.66 -140.97	125.38
23 11 33 00-0054 EA 8" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	313.98 -176.21	156.67
23 11 33 00-0055 EA 10" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	388.15 -212.21	188.72
23 11 33 00-0056 EA 12" Fiberglass Reinforced Plastic Flanged Concentric Reducer For Use As Inner Pipe In Double Wall Pipe System, Deduct	503.26 -263.15	234.02
23 11 33 00-0057 Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 33 00-0011)		
23 11 33 00-0058 EA 2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	129.54 -82.71	73.54

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Piping

23 11**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 33 00-0059 EA 3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	153.21 -99.26	88.31
23 11 33 00-0060 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	176.69 -115.39	102.66
23 11 33 00-0061 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	209.47 -134.61	121.94
23 11 33 00-0062 EA 6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	225.10 -140.97	125.38
23 11 33 00-0063 EA 8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	260.10 -176.21	156.67
23 11 33 00-0064 EA 10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	319.09 -212.21	188.72
23 11 33 00-0065 EA 12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter For Use As Inner Pipe In Double Wall Pipe System, Deduct	429.43 -263.15	234.02
23 11 33 00-0066 Fiberglass Reinforced Plastic Nipples (23 11 33 00-0011)		
23 11 33 00-0067 EA 2" x 6" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	18.55 -9.92	8.82
23 11 33 00-0068 EA 2" x 12" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	37.03 -19.80	17.64
23 11 33 00-0069 EA 3" x 8" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	43.55 -15.23	13.54
23 11 33 00-0070 EA 3" x 12" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	52.33 -19.76	17.58
23 11 33 00-0071 EA 4" x 8" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	44.40 -14.10	12.50
23 11 33 00-0072 EA 4" x 12" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	57.73 -21.14	18.80
23 11 33 00-0073 EA 6" x 12" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	68.63 -23.26	21.05
23 11 33 00-0074 EA 6" x 12" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	79.56 -25.40	22.56
23 11 33 00-0075 EA 8" x 18" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	58.61 -29.60	26.31
23 11 33 00-0076 EA 8" x 24" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	81.87 -42.26	37.59
23 11 33 00-0077 EA 10" x 18" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	78.34 -30.09	26.79
23 11 33 00-0078 EA 10" x 24" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	117.48 -45.06	40.04
23 11 33 00-0079 EA 12" x 18" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	87.28 -31.04	27.63
23 11 33 00-0080 EA 12" x 24" Fiberglass Reinforced Plastic Nipple For Use As Inner Pipe In Double Wall Pipe System, Deduct	120.29 -46.55	41.36
23 11 33 00-0081 Fiberglass Reinforced Plastic Sleeve Couplings (23 11 33 00-0011)		
23 11 33 00-0082 EA 2" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	115.16 -82.71	73.54
23 11 33 00-0083 EA 3" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	138.29 -99.26	88.31
23 11 33 00-0084 EA 4" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	160.55 -115.39	102.66
23 11 33 00-0085 EA 5" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	188.74 -134.61	121.94
23 11 33 00-0086 EA 6" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	199.78 -140.97	125.38
23 11 33 00-0087 EA 8" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	252.28 -176.21	156.67
23 11 33 00-0088 EA 10" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	309.34 -212.21	188.72
23 11 33 00-0089 EA 12" Fiberglass Reinforced Plastic Sleeve Coupling For Use As Inner Pipe In Double Wall Pipe System, Deduct	381.97 -263.15	234.02
23 11 33 00-0090 Fiberglass Reinforced Plastic Flanges (23 11 33 00-0011)		
23 11 33 00-0091 EA 2" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	115.77 -82.71	73.54
23 11 33 00-0092 EA 3" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	139.09 -99.26	88.31
23 11 33 00-0093 EA 4" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	149.86 -105.54	93.89
23 11 33 00-0094 EA 5" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	176.72 -123.35	111.74
23 11 33 00-0095 EA 6" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	203.32 -140.97	125.38
23 11 33 00-0096 EA 8" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	245.78 -168.68	150.00
23 11 33 00-0097 EA 10" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	314.85 -212.21	188.72
23 11 33 00-0098 EA 12" Fiberglass Reinforced Plastic Flange For Use As Inner Pipe In Double Wall Pipe System, Deduct	404.03 -263.15	234.02

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 33 00-0099		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings (23 11 33)		
23 11 33 00-0100		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing (23 11 33 00-0099)		
23 11 33 00-0101	LF	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	62.76	31.69
23 11 33 00-0102	LF	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	74.57	37.54
23 11 33 00-0103	LF	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	104.10	55.38
23 11 33 00-0104	LF	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	139.11	71.80
23 11 33 00-0105	LF	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	171.51	80.82
23 11 33 00-0106	LF	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	217.13	95.86
23 11 33 00-0107	LF	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing.....	275.59	120.96
23 11 33 00-0108		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings (23 11 33 00-0099)		
23 11 33 00-0109		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows (23 11 33 00-0108)		
23 11 33 00-0110	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	912.45	392.20
23 11 33 00-0111	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	1,073.54	470.76
23 11 33 00-0112	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	1,293.22	547.07
23 11 33 00-0113	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	1,904.71	668.49
23 11 33 00-0114	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	2,797.18	835.77
23 11 33 00-0115	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	3,630.27	1,005.51
23 11 33 00-0116	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	4,734.00	1,245.16
23 11 33 00-0117		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows (23 11 33 00-0108)		
23 11 33 00-0118	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	913.16	392.20
23 11 33 00-0119	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	1,072.30	470.76
23 11 33 00-0120	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	1,292.24	547.07
23 11 33 00-0121	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	1,898.99	668.49
23 11 33 00-0122	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	2,788.90	835.77
23 11 33 00-0123	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	3,619.59	1,005.98
23 11 33 00-0124	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	4,722.87	1,247.98
23 11 33 00-0125		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees (23 11 33 00-0108)		
23 11 33 00-0126	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	1,320.94	588.30
23 11 33 00-0127	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	1,621.52	709.02
23 11 33 00-0128	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	1,854.96	821.02
23 11 33 00-0129	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	2,603.58	1,006.45
23 11 33 00-0130	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	3,263.35	1,247.98
23 11 33 00-0131	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	4,900.83	1,507.94
23 11 33 00-0132	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	6,424.58	1,828.32
23 11 33 00-0133		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes (23 11 33 00-0108)		
23 11 33 00-0134	EA	2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	1,618.03	588.30
23 11 33 00-0135	EA	3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	2,045.41	708.19
23 11 33 00-0136	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	2,395.09	821.02
23 11 33 00-0137	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	2,983.32	1,006.45
23 11 33 00-0138	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	3,863.88	1,247.98
23 11 33 00-0139	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	5,658.29	1,507.94
23 11 33 00-0140	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	7,250.26	1,828.32
23 11 33 00-0141		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers (23 11 33 00-0108)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel Piping

23 11**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 33 00-0142 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	959.86	392.20
23 11 33 00-0143 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,218.52	470.76
23 11 33 00-0144 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,357.19	547.07
23 11 33 00-0145 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,706.21	668.49
23 11 33 00-0146 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,234.34	835.77
23 11 33 00-0147 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,813.70	1,005.51
23 11 33 00-0148 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	3,759.14	1,245.16
23 11 33 00-0149 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 33 00-0108)		
23 11 33 00-0150 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	827.09	392.20
23 11 33 00-0151 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	964.96	470.76
23 11 33 00-0152 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,103.87	547.07
23 11 33 00-0153 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,463.41	668.49
23 11 33 00-0154 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,565.34	835.77
23 11 33 00-0155 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,956.18	1,005.51
23 11 33 00-0156 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,842.45	1,245.16
23 11 33 00-0157 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 33 00-0108)		
23 11 33 00-0158 EA 2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	136.60	47.08
23 11 33 00-0159 EA 2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	272.84	93.95
23 11 33 00-0160 EA 3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	396.85	72.20
23 11 33 00-0161 EA 3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	463.24	93.70
23 11 33 00-0162 EA 4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	418.12	66.82
23 11 33 00-0163 EA 4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	517.11	100.28
23 11 33 00-0164 EA 6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	747.91	120.49
23 11 33 00-0165 EA 8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	448.20	140.41
23 11 33 00-0166 EA 8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	617.42	200.46
23 11 33 00-0167 EA 10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	688.55	142.66
23 11 33 00-0168 EA 10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,033.12	213.71
23 11 33 00-0169 EA 12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	790.59	147.17
23 11 33 00-0170 EA 12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,054.06	220.77
23 11 33 00-0171 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges (23 11 33 00-0108)		
23 11 33 00-0172 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	863.94	500.55
23 11 33 00-0173 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,192.97	668.49
23 11 33 00-0174 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,458.81	800.15
23 11 33 00-0175 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,903.61	1,005.51
23 11 33 00-0176 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,527.03	1,245.16
23 12 Facility Fuel Pumps (23 10)		
23 12 13 Facility Fuel-Oil Pumps (23 12)		
23 12 13 00-0001 Cast Iron Internal Gear Rotary Pump (23 12 13)		
Note: Heavy duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise; diesel oil, and light oil.		
23 12 13 00-0002 10 GPM 1" Discharge (23 12 13 00-0001)		
23 12 13 00-0003 EA 10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge.....	1,891.90	297.54
23 12 13 00-0004 EA 10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge.....	1,964.63	360.14
23 12 13 00-0005 EA 10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge.....	2,135.99	427.85
23 12 13 00-0006 25 GPM 1-1/4" Discharge (23 12 13 00-0001)		
23 12 13 00-0007 EA 25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge.....	1,981.08	297.54
23 12 13 00-0008 EA 25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge.....	2,077.66	360.14
23 12 13 00-0009 EA 25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge.....	2,174.09	427.85
23 12 13 00-0010 Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI (23 12 13)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 12 Facility Fuel Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 12 13 00-0011 EA 1/4 HP Pump Fuel Oil/Diesel	1,397.88	166.73
23 12 13 00-0012 EA 1/3 HP Pump Fuel Oil/Diesel	1,649.17	186.74
23 12 13 00-0013 EA 1/2 HP Pump Fuel Oil/Diesel	1,799.99	209.30
23 12 13 00-0014 EA 3/4 HP Pump Fuel Oil/Diesel	1,959.02	235.99
23 12 13 00-0015 EA 1 HP Pump Fuel Oil/Diesel	2,797.74	262.67
23 12 13 00-0016 EA 1-1/2 HP Pump Fuel Oil/Diesel	3,438.43	293.95
23 12 13 00-0017 EA 2 HP Pump Fuel Oil/Diesel	3,808.26	329.35
23 12 13 00-0018 EA 3 HP Pump Fuel Oil/Diesel	4,663.62	368.34
23 12 13 00-0019 EA 5 HP Pump Fuel Oil/Diesel	5,510.30	412.98
23 12 13 00-0020 EA 7.5 HP Pump Fuel Oil/Diesel	6,168.98	463.25
23 12 13 00-0021 EA 10 HP Pump Fuel Oil/Diesel	6,916.69	519.27

23 12 23 Facility Natural-Gas Pumps (23 12)**23 12 23 00-0001 Natural Gas Booster Pump (23 12 23)**

23 12 23 00-0002 EA Natural Gas Booster Pump, 3/4" Outlet Size	751.72	153.90
23 12 23 00-0003 EA Natural Gas Booster Pump, 1" Outlet Size	882.26	171.86
23 12 23 00-0004 EA Natural Gas Booster Pump, 1-1/4" Outlet Size	977.64	179.56
23 12 23 00-0005 EA Natural Gas Booster Pump, 1-1/2" Outlet Size	1,094.88	187.25
23 12 23 00-0006 EA Natural Gas Booster Pump, 2" Outlet Size	1,221.60	192.38

23 13 Facility Fuel-Storage Tanks (23 10)**23 13 13 Facility Underground Fuel-Oil, Storage Tanks (23 13)****23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks (23 13 13)****23 13 13 13-0001 Coated Underground Double Wall Storage Tanks (23 13 13 13)**

Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.

23 13 13 13-0002 EA 250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	7,726.13	643.49
23 13 13 13-0003 EA 550 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	8,314.11	643.49
23 13 13 13-0004 EA 1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	11,933.74	804.31
23 13 13 13-0005 EA 2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	16,644.61	1,571.03
23 13 13 13-0006 EA 3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	26,193.49	2,019.77
23 13 13 13-0007 EA 4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	29,225.08	2,319.78
23 13 13 13-0008 EA 5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	31,909.53	3,067.23
23 13 13 13-0009 EA 6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	33,075.07	3,293.20
23 13 13 13-0010 EA 8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	40,284.64	3,890.50
23 13 13 13-0011 EA 10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	46,643.45	4,487.41
23 13 13 13-0012 EA 12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	59,150.43	4,934.76
23 13 13 13-0013 EA 14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	70,212.33	5,991.59
23 13 13 13-0014 EA 15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	72,633.49	6,358.63
23 13 13 13-0015 EA 20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	90,586.82	10,086.11
23 13 13 13-0016 EA 25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	111,766.07	13,079.21
23 13 13 13-0017 EA 30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	131,400.39	14,965.00
23 13 13 13-0018 EA 40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	166,972.33	16,087.37
23 13 13 13-0019 EA 48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	222,807.40	16,499.91

23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks (23 13 13)**23 13 13 23-0001 Underground Fiberglass Storage Tanks (23 13 13 23)****23 13 13 23-0002 Single Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)**

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0003 EA 550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	2,948.66	643.49
23 13 13 23-0004 EA 1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	3,702.31	804.31
23 13 13 23-0005 EA 2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	4,812.33	995.17
23 13 13 23-0006 EA 2,500 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	5,492.63	1,212.17
23 13 13 23-0007 EA 3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	6,167.01	1,421.68
23 13 13 23-0008 EA 4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	7,547.48	1,870.63
23 13 13 23-0009 EA 5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	9,198.63	2,843.35
23 13 13 23-0010 EA 6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	10,524.53	3,591.60
23 13 13 23-0011 EA 8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	12,531.31	4,040.55
23 13 13 23-0012 EA 10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	14,196.81	4,788.80
23 13 13 23-0013 EA 12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	18,111.32	5,686.70
23 13 13 23-0014 EA 15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	22,337.95	7,108.38
23 13 13 23-0015 EA 20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	28,340.69	9,502.77
23 13 13 23-0016 EA 25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	41,588.48	11,822.35
23 13 13 23-0017 EA 30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	50,801.20	14,216.75
23 13 13 23-0018 EA 40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	72,746.12	20,576.88
23 13 13 23-0019 EA 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	102,522.99	26,188.75

23 13 13 23-0020 Double Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel-Storage Tanks

23 13**23**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 13 23-0021	EA	550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	5,510.86	643.49	
23 13 13 23-0022	EA	1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	7,248.97	804.31	
23 13 13 23-0023	EA	2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	8,693.83	972.72	
23 13 13 23-0024	EA	3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	11,356.59	1,421.78	
23 13 13 23-0025	EA	4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	12,845.17	1,870.63	
23 13 13 23-0026	EA	5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	15,022.49	2,843.35	
23 13 13 23-0027	EA	6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	16,867.35	3,591.60	
23 13 13 23-0028	EA	8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	20,603.99	4,040.55	
23 13 13 23-0029	EA	10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	22,269.49	4,788.80	
23 13 13 23-0030	EA	12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	26,904.78	5,686.70	
23 13 13 23-0031	EA	15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	36,789.49	7,108.38	
23 13 13 23-0032	EA	20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	45,783.44	9,502.77	
23 13 13 23-0033	EA	30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	70,550.43	14,216.75	
23 13 13 23-0034 Underground Storage Tank Pump Enclosures (23 13 13 23)					
23 13 13 23-0035	EA	Secondary Containment Collar.....	649.25		
23 13 13 23-0036	EA	Turbine Enclosure With Lid 4' Long x 42" Diameter.....	649.25		
23 13 13 23-0037	EA	Fitting Kit For Turbine Enclosure.....	129.85		
23 13 13 23-0038	EA	Grommet Kits For Plumbing And Electrical.....	259.70		
23 13 13 23-0039	EA	Turbine Electrical Coupling Kit.....	324.63		
23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks (23 13)					
23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)					
23 13 23 13-0001 Rectangle Double Wall Steel Fuel Day Tank (23 13 23 13)					
Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs.					
23 13 23 13-0002	EA	10 Gallon Double Wall Steel Day Tank; Tramont TRX.....	920.16	133.76	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0003	EA	15 Gallon Double Wall Steel Day Tank; Tramont TRX.....	986.78	140.44	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0004	EA	25 Gallon Double Wall Steel Day Tank; Tramont TRX.....	1,070.33	150.47	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0005	EA	50 Gallon Double Wall Steel Day Tank; Tramont TRX.....	1,224.46	160.51	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0006	EA	60 Gallon Double Wall Steel Day Tank; Tramont TRX.....	1,360.44	167.20	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0007	EA	75 Gallon Double Wall Steel Day Tank; Tramont TRX.....	1,605.29	200.64	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0008	EA	100 Gallon Double Wall Steel Day Tank; Tramont TRX.....	2,145.18	234.08	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0009	EA	150 Gallon Double Wall Steel Day Tank; Tramont TRX.....	2,702.71	267.51	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0010	EA	200 Gallon Double Wall Steel Day Tank; Tramont TRX.....	3,449.36	300.96	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0011	EA	275 Gallon Double Wall Steel Day Tank; Tramont TRX.....	3,844.25	334.39	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0012	EA	300 Gallon Double Wall Steel Day Tank; Tramont TRX.....	4,407.09	401.28	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0013	EA	350 Gallon Double Wall Steel Day Tank; Tramont TRX.....	4,944.71	468.16	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0014	EA	400 Gallon Double Wall Steel Day Tank; Tramont TRX.....	5,497.47	535.04	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0015	EA	450 Gallon Double Wall Steel Day Tank; Tramont TRX.....	6,090.30	568.47	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0016	EA	500 Gallon Double Wall Steel Day Tank; Tramont TRX.....	6,686.92	601.92	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0017	EA	550 Gallon Double Wall Steel Day Tank; Tramont TRX.....	7,362.98	635.35	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0018	EA	600 Gallon Double Wall Steel Day Tank; Tramont TRX.....	7,955.82	668.79	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0019	EA	700 Gallon Double Wall Steel Day Tank; Tramont TRX.....	8,884.80	802.55	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0020	EA	800 Gallon Double Wall Steel Day Tank; Tramont TRX.....	9,585.06	869.43	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0021	EA	900 Gallon Double Wall Steel Day Tank; Tramont TRX.....	10,540.52	1,003.19	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0022	EA	1,000 Gallon Double Wall Steel Day Tank; Tramont TRX.....	11,499.76	1,136.94	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0023	EA	10 Gallon Double Wall Steel Day Tank; Tramont UTRX.....	1,104.24	133.76	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0024	EA	15 Gallon Double Wall Steel Day Tank; Tramont UTRX.....	1,172.12	140.44	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0025	EA	25 Gallon Double Wall Steel Day Tank; Tramont UTRX.....	1,255.67	150.47	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0026	EA	50 Gallon Double Wall Steel Day Tank; Tramont UTRX.....	1,408.54	160.51	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0027	EA	60 Gallon Double Wall Steel Day Tank; Tramont UTRX.....	1,544.51	167.20	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					
23 13 23 13-0028	EA	75 Gallon Double Wall Steel Day Tank; Tramont UTRX.....	1,790.63	200.64	
Note: Includes rust-inhibitor coated interior and gray painted exterior.					

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0029 EA 100 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	2,348.17	234.08
23 13 23 13-0030 EA 150 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	2,905.70	267.51
23 13 23 13-0031 EA 200 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	3,652.35	300.96
23 13 23 13-0032 EA 275 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	4,047.24	334.39
23 13 23 13-0033 EA 300 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	4,610.08	401.28
23 13 23 13-0034 EA 350 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,147.70	468.16
23 13 23 13-0035 EA 400 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,700.46	535.04
23 13 23 13-0036 EA 450 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,293.29	568.47
23 13 23 13-0037 EA 500 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,889.91	601.92
23 13 23 13-0038 EA 550 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,567.23	635.35
23 13 23 13-0039 EA 600 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	8,160.07	668.79
23 13 23 13-0040 EA 700 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,087.79	802.55
23 13 23 13-0041 EA 800 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,788.05	869.43
23 13 23 13-0042 EA 900 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,743.51	1,003.19
23 13 23 13-0043 EA 1,000 Gallon Double Wall Steel Day Tank; Tramont UTRX..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	11,702.75	1,136.94
23 13 23 13-0044 EA 10 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	1,801.46	133.76
23 13 23 13-0045 EA 15 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	1,861.79	140.44
23 13 23 13-0046 EA 25 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	1,917.59	150.47
23 13 23 13-0047 EA 50 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,120.90	160.51
23 13 23 13-0048 EA 60 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,198.87	167.20
23 13 23 13-0049 EA 75 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,436.16	200.64
23 13 23 13-0050 EA 100 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,929.40	234.08
23 13 23 13-0051 EA 150 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,686.14	267.51
23 13 23 13-0052 EA 200 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,145.33	300.96
23 13 23 13-0053 EA 275 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,395.05	334.39
23 13 23 13-0054 EA 300 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,106.66	401.28
23 13 23 13-0055 EA 350 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,545.93	468.16
23 13 23 13-0056 EA 400 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,134.00	535.04
23 13 23 13-0057 EA 450 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,700.36	568.47
23 13 23 13-0058 EA 500 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,443.23	601.92
23 13 23 13-0059 EA 550 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,759.96	635.35
23 13 23 13-0060 EA 600 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,045.15	668.79
23 13 23 13-0061 EA 700 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,361.21	802.55
23 13 23 13-0062 EA 800 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,612.44	869.43
23 13 23 13-0063 EA 900 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,004.14	1,003.19
23 13 23 13-0064 EA 1,000 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,417.27	1,136.94
23 13 23 13-0065 EA 10 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRX..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,633.60	133.76
23 13 23 13-0066 EA 15 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRX..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,693.92	140.44
23 13 23 13-0067 EA 25 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRX..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,749.73	150.47
23 13 23 13-0068 EA 50 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRX..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,953.04	160.51
23 13 23 13-0069 EA 60 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRX..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,031.01	167.20
23 13 23 13-0070 EA 75 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRX..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,268.29	200.64



Heating, Ventilating, And Air-Conditioning (HVAC)	23	23
Facility Fuel Systems	23 10	
Facility Fuel-Storage Tanks	23 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0071 EA 100 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,761.54	234.08
23 13 23 13-0072 EA 150 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,518.28	267.51
23 13 23 13-0073 EA 200 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,032.94	300.96
23 13 23 13-0074 EA 275 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,937.20	334.39
23 13 23 13-0075 EA 300 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,648.81	401.28
23 13 23 13-0076 EA 350 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,089.34	468.16
23 13 23 13-0077 EA 400 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,676.15	535.04
23 13 23 13-0078 EA 450 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,243.77	568.47
23 13 23 13-0079 EA 500 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,985.38	601.92
23 13 23 13-0080 EA 550 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,302.11	635.35
23 13 23 13-0081 EA 600 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,587.30	668.79
23 13 23 13-0082 EA 700 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,903.36	802.55
23 13 23 13-0083 EA 800 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,155.85	869.43
23 13 23 13-0084 EA 900 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,546.29	1,003.19
23 13 23 13-0085 EA 1,000 Gallon Double Wall Steel Day Tank With Pump; Tramont UTR Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,959.42	1,136.94
23 13 23 13-0086 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,098.84	133.76
23 13 23 13-0087 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,165.46	140.44
23 13 23 13-0088 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,222.53	150.47
23 13 23 13-0089 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,432.14	160.51
23 13 23 13-0090 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,545.42	167.20
23 13 23 13-0091 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,762.53	200.64
23 13 23 13-0092 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,274.69	234.08
23 13 23 13-0093 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,066.73	267.51
23 13 23 13-0094 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,542.31	300.96
23 13 23 13-0095 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,839.94	334.39
23 13 23 13-0096 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,586.85	401.28
23 13 23 13-0097 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,987.04	468.16
23 13 23 13-0098 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,650.75	535.04
23 13 23 13-0099 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,333.11	568.47
23 13 23 13-0100 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,019.24	601.92
23 13 23 13-0101 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,372.53	635.35
23 13 23 13-0102 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,638.82	668.79
23 13 23 13-0103 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,011.61	802.55

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0104 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,322.10	869.43
23 13 23 13-0105 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,773.06	1,003.19
23 13 23 13-0106 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,242.93	1,136.94
23 13 23 13-0107 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,930.97	133.76
23 13 23 13-0108 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,997.60	140.44
23 13 23 13-0109 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,054.66	150.47
23 13 23 13-0110 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,264.28	160.51
23 13 23 13-0111 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,377.55	167.20
23 13 23 13-0112 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,592.15	200.64
23 13 23 13-0113 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,106.82	234.08
23 13 23 13-0114 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,898.86	267.51
23 13 23 13-0115 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,374.44	300.96
23 13 23 13-0116 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,382.08	334.39
23 13 23 13-0117 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,129.00	401.28
23 13 23 13-0118 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,655.27	468.16
23 13 23 13-0119 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,192.90	535.04
23 13 23 13-0120 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,875.26	568.47
23 13 23 13-0121 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,561.39	601.92
23 13 23 13-0122 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,914.68	635.35
23 13 23 13-0123 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,182.23	668.79
23 13 23 13-0124 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,553.76	802.55
23 13 23 13-0125 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,864.25	869.43
23 13 23 13-0126 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	15,315.20	1,003.19
23 13 23 13-0127 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,785.08	1,136.94
23 13 23 13-0128 EA 150% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	911.94	133.76
23 13 23 13-0129 EA 150% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	986.33	140.44
23 13 23 13-0130 EA 150% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,069.62	150.47
23 13 23 13-0131 EA 150% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,217.81	160.51
23 13 23 13-0132 EA 150% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	1,600.09	167.20
23 13 23 13-0133 EA 150% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	1,655.82	200.64
23 13 23 13-0134 EA 150% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,074.37	234.08
23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	2,557.82	267.51
23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	3,339.17	300.96
23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	4,177.11	334.39
23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	5,014.20	401.28
23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	5,403.59	468.16
23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	5,794.67	535.04

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel-Storage Tanks

23 13**23**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0141	EA	150%	Containment Double Wall Open Top Basin For 450 Gallon Tank.....	6,354.67	568.47
23 13 23 13-0142	EA	150%	Containment Double Wall Open Top Basin For 500 Gallon Tank.....	6,916.34	601.92
23 13 23 13-0143	EA	150%	Containment Double Wall Open Top Basin For 550 Gallon Tank.....	7,406.47	635.35
23 13 23 13-0144	EA	150%	Containment Double Wall Open Top Basin For 600 Gallon Tank.....	7,901.55	668.79
23 13 23 13-0145	EA	150%	Containment Double Wall Open Top Basin For 700 Gallon Tank.....	8,959.94	802.55
23 13 23 13-0146	EA	150%	Containment Double Wall Open Top Basin For 800 Gallon Tank.....	9,936.82	869.43
23 13 23 13-0147	EA	150%	Containment Double Wall Open Top Basin For 900 Gallon Tank.....	11,051.80	1,003.19
23 13 23 13-0148	EA	150%	Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	12,130.17	1,136.94
23 13 23 13-0149	EA	200%	Containment Double Wall Open Top Basin For 10 Gallon Tank.....	961.37	140.44
23 13 23 13-0150	EA	200%	Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,044.84	150.47
23 13 23 13-0151	EA	200%	Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,131.82	160.51
23 13 23 13-0152	EA	200%	Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,281.75	167.20
23 13 23 13-0153	EA	200%	Containment Double Wall Open Top Basin For 60 Gallon Tank.....	1,729.23	200.64
23 13 23 13-0154	EA	200%	Containment Double Wall Open Top Basin For 75 Gallon Tank.....	1,784.97	234.08
23 13 23 13-0155	EA	200%	Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,223.67	267.51
23 13 23 13-0156	EA	200%	Containment Double Wall Open Top Basin For 150 Gallon Tank.....	2,730.88	300.96
23 13 23 13-0157	EA	200%	Containment Double Wall Open Top Basin For 200 Gallon Tank.....	3,552.54	334.39
23 13 23 13-0158	EA	200%	Containment Double Wall Open Top Basin For 275 Gallon Tank.....	4,433.94	367.84
23 13 23 13-0159	EA	200%	Containment Double Wall Open Top Basin For 300 Gallon Tank.....	5,311.34	434.71
23 13 23 13-0160	EA	200%	Containment Double Wall Open Top Basin For 350 Gallon Tank.....	5,716.19	501.59
23 13 23 13-0161	EA	200%	Containment Double Wall Open Top Basin For 400 Gallon Tank.....	6,122.78	568.47
23 13 23 13-0162	EA	200%	Containment Double Wall Open Top Basin For 450 Gallon Tank.....	6,710.80	601.92
23 13 23 13-0163	EA	200%	Containment Double Wall Open Top Basin For 500 Gallon Tank.....	7,300.59	635.35
23 13 23 13-0164	EA	200%	Containment Double Wall Open Top Basin For 550 Gallon Tank.....	7,814.84	668.79
23 13 23 13-0165	EA	200%	Containment Double Wall Open Top Basin For 600 Gallon Tank.....	8,390.06	735.67
23 13 23 13-0166	EA	200%	Containment Double Wall Open Top Basin For 700 Gallon Tank.....	9,494.87	869.43
23 13 23 13-0167	EA	200%	Containment Double Wall Open Top Basin For 800 Gallon Tank.....	10,631.30	1,003.19
23 13 23 13-0168	EA	200%	Containment Double Wall Open Top Basin For 900 Gallon Tank.....	11,795.83	1,136.94
23 13 23 13-0169	EA	200%	Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	12,921.72	1,270.71
23 13 23 13-0170	EA	150%	Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,043.41	133.76
23 13 23 13-0171	EA	150%	Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,134.45	140.44
23 13 23 13-0172	EA	150%	Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,227.73	150.47
23 13 23 13-0173	EA	150%	Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,409.20	160.51
23 13 23 13-0174	EA	150%	Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	1,863.04	167.20
23 13 23 13-0175	EA	150%	Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	1,918.77	200.64
23 13 23 13-0176	EA	150%	Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	2,397.24	234.08
23 13 23 13-0177	EA	150%	Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	2,958.91	267.51
23 13 23 13-0178	EA	150%	Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	3,876.27	300.96
23 13 23 13-0179	EA	150%	Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	4,902.73	334.39
23 13 23 13-0180	EA	150%	Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	5,887.94	401.28
23 13 23 13-0181	EA	150%	Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	6,328.92	468.16
23 13 23 13-0182	EA	150%	Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	6,773.26	535.04
23 13 23 13-0183	EA	150%	Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	7,438.11	568.47
23 13 23 13-0184	EA	150%	Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	8,104.63	601.92
23 13 23 13-0185	EA	150%	Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	8,672.96	635.35
23 13 23 13-0186	EA	150%	Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	9,254.60	668.79
23 13 23 13-0187	EA	150%	Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	10,487.74	802.55
23 13 23 13-0188	EA	150%	Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	11,641.03	869.43
23 13 23 13-0189	EA	150%	Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	12,930.76	1,003.19
23 13 23 13-0190	EA	150%	Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	14,183.87	1,136.94
23 13 23 13-0191	EA	200%	Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,100.15	140.44
23 13 23 13-0192	EA	200%	Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,201.19	150.47
23 13 23 13-0193	EA	200%	Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,298.71	160.51
23 13 23 13-0194	EA	200%	Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,483.78	167.20
23 13 23 13-0195	EA	200%	Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,006.80	200.64
23 13 23 13-0196	EA	200%	Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,062.54	234.08
23 13 23 13-0197	EA	200%	Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	2,564.47	267.51
23 13 23 13-0198	EA	200%	Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	3,154.25	300.96
23 13 23 13-0199	EA	200%	Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	4,119.49	334.39
23 13 23 13-0200	EA	200%	Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	5,199.88	367.84
23 13 23 13-0201	EA	200%	Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	6,233.62	434.71
23 13 23 13-0202	EA	200%	Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	6,692.93	501.59
23 13 23 13-0203	EA	200%	Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	7,155.74	568.47
23 13 23 13-0204	EA	200%	Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	7,854.43	601.92
23 13 23 13-0205	EA	200%	Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	8,554.89	635.35
23 13 23 13-0206	EA	200%	Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	9,151.69	668.79
23 13 23 13-0207	EA	200%	Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	9,818.28	735.67
23 13 23 13-0208	EA	200%	Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	11,107.54	869.43
23 13 23 13-0209	EA	200%	Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	12,430.19	1,003.19
23 13 23 13-0210	EA	200%	Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	13,779.18	1,136.94
23 13 23 13-0211	EA	200%	Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	15,089.52	1,270.71
23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)					
23 13 23 16-0001 Single Wall Aboveground Storage Tanks (23 13 23 16)					
Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, excavation and backfill.					
23 13 23 16-0002	EA	300	Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	2,740.41	726.98
23 13 23 16-0003	EA	550	Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	3,298.69	880.02
23 13 23 16-0004	EA	1,000	Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	4,391.94	1,155.30
23 13 23 16-0005	EA	1,500	Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	5,644.90	1,444.13

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 16-0006 EA 2,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	6,833.86	1,838.60
23 13 23 16-0007 EA 3,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	9,728.58	1,892.67
23 13 23 16-0008 EA 5,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	13,874.20	2,340.03
23 13 23 16-0009 EA 8,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	18,704.17	2,681.23
23 13 23 16-0010 EA 10,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	22,115.62	2,924.96
23 13 23 16-0011 EA 12,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	25,555.72	3,217.48
23 13 23 16-0012 EA 15,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	28,298.99	3,574.94
23 13 23 16-0013 EA 20,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	35,433.77	4,596.35
23 13 23 16-0014 EA 30,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	47,803.64	5,362.46
23 13 23 16-0015 Double Wall Aboveground Storage Tanks (23 13 23 16)		
Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, excavation and backfill.		
23 13 23 16-0016 EA 300 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	4,175.40	907.11
23 13 23 16-0017 EA 550 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	5,022.67	1,097.71
23 13 23 16-0018 EA 1,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	6,700.64	1,444.13
23 13 23 16-0019 EA 1,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	8,635.31	1,805.16
23 13 23 16-0020 EA 2,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	10,354.65	2,298.23
23 13 23 16-0021 EA 3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	15,170.06	2,365.77
23 13 23 16-0022 EA 5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	21,832.44	2,914.38
23 13 23 16-0023 EA 8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	29,733.25	3,351.56
23 13 23 16-0024 EA 10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	35,301.61	3,656.25
23 13 23 16-0025 EA 12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	40,889.05	4,021.79
23 13 23 16-0026 EA 15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	45,271.10	4,468.75
23 13 23 16-0027 EA 20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	56,613.75	5,745.46
23 13 23 16-0028 EA 30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	76,874.31	6,703.02
23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)		
23 13 23 19-0001 Secondary Containment For Above Ground Tanks (23 13 23 19)		
23 13 23 19-0002 EA Steel Dike For 550 Gallon Tank, Uncoated.....	3,003.09	
23 13 23 19-0003 EA Steel Dike For 1,000 Gallon Tank, Uncoated.....	3,631.93	
23 13 23 19-0004 EA Steel Dike For 2,000 Gallon Tank, Uncoated.....	7,837.81	
23 13 23 19-0005 EA Steel Dike For 3,000 Gallon Tank, Uncoated.....	8,607.68	
23 13 23 19-0006 EA Steel Dike For 5,000 Gallon Tank, Uncoated.....	12,186.41	
23 13 23 19-0007 EA Steel Dike For 6,000 Gallon Tank, Uncoated.....	13,651.45	
23 13 23 19-0008 EA Steel Dike For 8,000 Gallon Tank, Uncoated.....	17,998.35	
23 13 23 19-0009 EA Steel Dike For 10,000 Gallon Tank, Uncoated.....	21,139.20	
23 13 23 19-0010 EA Steel Dike For 12,000 Gallon Tank, Uncoated.....	23,997.84	
23 13 23 19-0011 EA Steel Dike For 15,000 Gallon Tank, Uncoated.....	29,230.78	
23 13 23 19-0012 EA Steel Dike For 20,000 Gallon Tank, Uncoated.....	37,390.53	
23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)		
23 13 23 26-0001 Aboveground Concrete Vaulted Storage Tanks (23 13 23 26)		
Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overfill containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping.		
23 13 23 26-0002 EA 500 Gallon Concrete Vaulted Storage Tank <i>For Low Profile Tanks, Add</i>	16,963.47 6,008.66	1,391.64
23 13 23 26-0003 EA 1,000 Gallon Concrete Vaulted Storage Tank <i>For Low Profile Tanks, Add</i>	21,274.86 7,633.09	1,571.03
23 13 23 26-0004 EA 2,000 Gallon Concrete Vaulted Storage Tank <i>For Low Profile Tanks, Add</i>	37,293.43 13,873.30	1,870.63
23 13 23 26-0005 EA 4,000 Gallon Concrete Vaulted Storage Tank	59,661.84	4,114.48
23 13 23 26-0006 EA 5,000 Gallon Concrete Vaulted Storage Tank	68,036.71	4,493.69
23 13 23 26-0007 EA 6,000 Gallon Concrete Vaulted Storage Tank	76,492.79	4,852.85
23 13 23 26-0008 EA 8,000 Gallon Concrete Vaulted Storage Tank	84,926.77	5,265.98
23 13 23 26-0009 EA 10,000 Gallon Concrete Vaulted Storage Tank	93,354.06	5,605.39
23 13 33 Facility Fuel-Oil, Storage Tank Accessories (23 13)		
23 13 33 00-0001 EPA Requirements (23 13 33)		
23 13 33 00-0002 EA Fill Pipe Spill Containment Manhole (5 Gallon).....	395.61	
23 13 33 00-0003 EA Over-Fill Prevention Valve	515.14	
23 13 33 00-0004 EA Tank Manway With Cover, Fiberglass	1,678.96	
23 13 33 00-0005 EA Tank Manway With Cover, Steel.....	1,587.70	
23 13 33 00-0006 EA Vent Fill Alarm (Whistle Vent)	100.66	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Facility Fuel Systems

23 10

Facility Fuel-Storage Tanks

23 13**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0007 EA Reservoir Sensor, Liquid Level.....	227.26	
23 13 33 00-0008 EA Manhole Spill Containment.....	871.09	259.03
23 13 33 00-0009 EA Fill Adapter, 4".....	249.17	172.72
23 13 33 00-0010 EA Fill Cap, 4".....	162.07	64.75
23 13 33 00-0011 EA Vent Cap, 2".....	102.87	43.20
23 13 33 00-0012 EA 4" X 2" Extractor Fitting.....	243.32	64.75
23 13 33 00-0013 EA Float Vent Valve.....	309.90	129.52
23 13 33 00-0014 EA Vapor Hose Adapter.....	264.37	86.30
23 13 33 00-0015 EA Dust Cap.....	126.74	47.14
23 13 33 00-0016 EA 1" Double Poppet Foot Valve.....	261.69	73.97
23 13 33 00-0017 EA 10' Wood Gage Stick.....	19.44	
23 13 33 00-0018 EA 1-1/4" Tank Filled Breather, NPT.....	79.71	
23 13 33 00-0019 EA 1-1/2" Tank Filled Breather, Bayonet.....	99.79	
23 13 33 00-0020 EA 2" Cast Iron Combination Fill Cap And Vent.....	60.67	
23 13 33 00-0021 EA 3" Cast Iron Combination Fill Cap And Vent.....	77.21	
23 13 33 00-0022 EA 4" Cast Iron Combination Fill Cap And Vent.....	112.57	
23 13 33 00-0023 EA Pressure And Vacuum Control Vent.....	373.13	
23 13 33 00-0024 EA 1/4 HP Fuel/Diesel Pump Set.....	1,098.35	
23 13 33 00-0025 EA 1/3 HP Fuel/Diesel Pump Set.....	1,290.97	
23 13 33 00-0026 EA 1/2 HP Fuel/Diesel Pump Set.....	1,411.62	
23 13 33 00-0027 EA 3/4 HP Fuel/Diesel Pump Set.....	1,551.00	
23 13 33 00-0028 EA 1 HP Fuel/Diesel Pump Set.....	2,160.66	
23 13 33 00-0029 EA 1-1/2 HP Fuel/Diesel Pump Set.....	2,645.92	
23 13 33 00-0030 EA 2 HP Fuel/Diesel Pump Set.....	2,932.54	
23 13 33 00-0031 EA 3 HP Fuel/Diesel Pump Set.....	3,575.83	
23 13 33 00-0032 EA 5 HP Fuel/Diesel Pump Set.....	4,215.00	
23 13 33 00-0033 EA 7.5 HP Fuel/Diesel Pump Set.....	4,718.74	
23 13 33 00-0034 EA 10 HP Fuel/Diesel Pump Set.....	5,437.81	
23 13 33 00-0035 Tank Bulkhead Fittings (23 13 33)		
23 13 33 00-0036 Tank Bulkhead Fittings (23 13 33 00-0035)		
23 13 33 00-0037 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0038 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	33.16	
23 13 33 00-0039 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	36.93	
23 13 33 00-0040 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	40.54	
23 13 33 00-0041 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	47.38	
23 13 33 00-0042 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	49.61	
23 13 33 00-0043 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	61.47	
23 13 33 00-0044 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	89.34	
23 13 33 00-0045 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	144.28	
23 13 33 00-0046 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0047 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	36.79	
23 13 33 00-0048 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	40.55	
23 13 33 00-0049 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	44.31	
23 13 33 00-0050 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	53.24	
23 13 33 00-0051 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	57.00	
23 13 33 00-0052 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	68.16	
23 13 33 00-0053 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	98.27	
23 13 33 00-0054 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	156.96	
23 13 33 00-0055 Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0056 EA 1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	37.62	
23 13 33 00-0057 EA 3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	42.93	
23 13 33 00-0058 EA 1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	48.08	
23 13 33 00-0059 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	60.63	
23 13 33 00-0060 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	75.68	
23 13 33 00-0061 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	110.40	
23 13 33 00-0062 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	164.50	
23 13 33 00-0063 Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0064 EA 1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....	42.23	
23 13 33 00-0065 EA 3/4" Polypropylene Bulkhead Fitting, Thread x Thread.....	49.07	
23 13 33 00-0066 EA 1" Polypropylene Bulkhead Fitting, Thread x Thread.....	58.81	
23 13 33 00-0067 EA 1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread.....	69.97	
23 13 33 00-0068 EA 1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....	72.20	
23 13 33 00-0069 EA 2" Polypropylene Bulkhead Fitting, Thread x Thread.....	97.85	
23 13 33 00-0070 EA 3" Polypropylene Bulkhead Fitting, Thread x Thread.....	163.94	
23 13 33 00-0071 EA 4" Polypropylene Bulkhead Fitting, Thread x Thread.....	280.22	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 13 33 00-0072 Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection (23 13 33 00-0036)

23 13 33 00-0073	EA	3/4" Polyethylene Bulkhead Fitting, Thread x Thread	39.58	
23 13 33 00-0074	EA	1" Polyethylene Bulkhead Fitting, Thread x Thread	48.73	
23 13 33 00-0075	EA	1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread	50.96	
23 13 33 00-0076	EA	1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread	53.19	
23 13 33 00-0077	EA	2" Polyethylene Bulkhead Fitting, Thread x Thread	69.27	
23 13 33 00-0078	EA	3" Polyethylene Bulkhead Fitting, Thread x Thread	84.92	

23 13 33 00-0079 TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)

23 13 33 00-0080	EA	1/8" TFE Teflon Bulkhead Fitting, Thread x Thread	127.44	
23 13 33 00-0081	EA	1/4" TFE Teflon Bulkhead Fitting, Thread x Thread	145.60	
23 13 33 00-0082	EA	3/8" TFE Teflon Bulkhead Fitting, Thread x Thread	177.38	
23 13 33 00-0083	EA	1/2" TFE Teflon Bulkhead Fitting, Thread x Thread	203.54	
23 13 33 00-0084	EA	3/4" TFE Teflon Bulkhead Fitting, Thread x Thread	234.03	
23 13 33 00-0085	EA	1" TFE Teflon Bulkhead Fitting, Thread x Thread	292.82	
23 13 33 00-0086	EA	1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread	378.75	
23 13 33 00-0087	EA	2" TFE Teflon Bulkhead Fitting, Thread x Thread	417.99	

23 13 33 00-0088 Self-Aligning Bulkhead Fittings (23 13 33 00-0035)

23 13 33 00-0089	EA	3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	133.73	
23 13 33 00-0090	EA	1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	135.02	
23 13 33 00-0091	EA	1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	193.32	
23 13 33 00-0092	EA	2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	198.17	
23 13 33 00-0093	EA	3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	262.71	

23 20 HVAC Piping And Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping And Pumps (23 21)**23 21 13 Hydronic Piping (23 21)**

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)**23 21 13 23-0001 Threaded Black Steel Pipe (23 21 13 23)****23 21 13 23-0002 Threaded Black Steel Pipe Assemblies (23 21 13 23-0001)**

Note: ASTM A-53. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
23 21 13 23-0003	LF	1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	16.41	4.10
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			3.65	
For Work In Restricted Working Space, Add			4.24	
23 21 13 23-0004	LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	17.43	4.41
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			3.91	
For Work In Restricted Working Space, Add			4.43	
23 21 13 23-0005	LF	1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	18.65	4.83
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			4.22	
For Work In Restricted Working Space, Add			4.67	
23 21 13 23-0006	LF	1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.23	5.03
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			4.95	
For Work In Restricted Working Space, Add			5.04	
23 21 13 23-0007	LF	1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.89	5.95
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			5.15	
For Work In Restricted Working Space, Add			5.11	
23 21 13 23-0008	LF	2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	25.19	7.18
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			6.00	
For Work In Restricted Working Space, Add			5.76	
23 21 13 23-0009	LF	2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly	33.60	8.51
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add			8.28	
For Work In Restricted Working Space, Add			7.15	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0010 LF 3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....41.98 Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 10.44 For Work In Restricted Working Space, Add 8.75		11.38
23 21 13 23-0011 LF 4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....50.67 Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 13.43 For Work In Restricted Working Space, Add 9.03		12.50
23 21 13 23-0012 LF 5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....71.61 Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 20.04 For Work In Restricted Working Space, Add 10.76		15.98
23 21 13 23-0013 LF 6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....84.20 Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add 23.81 For Work In Restricted Working Space, Add 12.19		18.89
23 21 13 23-0014 Threaded Black Steel Pipe And Fittings (23 21 13 23-0001) Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-0015 Threaded And Coupled, Black Steel Piping (23 21 13 23-0014) Note: ASTM A-53. Includes coupling.		
23 21 13 23-0016 LF 3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe.....5.81 For Schedule 80 Pipe, Add 0.80 For Work In Restricted Working Space, Add 1.55		2.56
23 21 13 23-0017 LF 1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....7.27 For Schedule 80 Pipe, Add 1.10 For Work In Restricted Working Space, Add 1.86		4.10
23 21 13 23-0018 LF 3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....7.98 For Schedule 80 Pipe, Add 1.28 For Work In Restricted Working Space, Add 1.98		4.41
23 21 13 23-0019 LF 1" Schedule 40, Threaded And Coupled, Black Steel Pipe.....8.99 For Schedule 80 Pipe, Add 1.54 For Work In Restricted Working Space, Add 2.15		4.83
23 21 13 23-0020 LF 1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe .....10.04 For Schedule 80 Pipe, Add 1.86 For Work In Restricted Working Space, Add 2.28		5.03
23 21 13 23-0021 LF 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe .....11.84 For Schedule 80 Pipe, Add 2.21 For Work In Restricted Working Space, Add 2.68		5.95
23 21 13 23-0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....14.62 For Schedule 80 Pipe, Add 2.80 For Work In Restricted Working Space, Add 3.24		7.18
23 21 13 23-0023 LF 2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe .....18.86 For Schedule 80 Pipe, Add 4.00 For Work In Restricted Working Space, Add 3.85		8.51
23 21 13 23-0024 LF 3" Schedule 40, Threaded And Coupled, Black Steel Pipe.....25.00 For Schedule 80 Pipe, Add 5.27 For Work In Restricted Working Space, Add 5.13		11.38
23 21 13 23-0025 LF 4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....30.62 For Schedule 80 Pipe, Add 7.20 For Work In Restricted Working Space, Add 5.64		12.50
23 21 13 23-0026 LF 5" Schedule 40, Threaded And Coupled, Black Steel Pipe.....39.63 For Schedule 80 Pipe, Add 9.46 For Work In Restricted Working Space, Add 7.18		15.98
23 21 13 23-0027 LF 6" Schedule 40, Threaded And Coupled, Black Steel Pipe.....49.02 For Schedule 80 Pipe, Add 12.15 For Work In Restricted Working Space, Add 8.49		18.89
23 21 13 23-0028 LF 8" Schedule 40, Threaded And Coupled, Black Steel Pipe.....64.91 For Schedule 80 Pipe, Add 17.25 For Work In Restricted Working Space, Add 10.25		22.84
23 21 13 23-0029 LF 10" Schedule 40, Threaded And Coupled, Black Steel Pipe.....85.27 For Schedule 80 Pipe, Add 23.75 For Work In Restricted Working Space, Add 12.53		27.82
23 21 13 23-0030 LF 12" Schedule 40, Threaded And Coupled, Black Steel Pipe.....113.31 For Schedule 80 Pipe, Add 31.80 For Work In Restricted Working Space, Add 16.45		36.56
23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0032 EA 3/8", 150 LB, Black Malleable Iron 90 Degree Elbow.....24.63 For 300 LB Rating, Add 5.78 For Standard Weight Cast Iron Fittings, Add 0.03 For Work In Restricted Working Space, Add 6.84		11.38
23 21 13 23-0033 EA 1/2", 150 LB, Black Malleable Iron 90 Degree Elbow.....28.62 For 300 LB Rating, Add 4.69 For Standard Weight Cast Iron Fittings, Add 0.02 For Work In Restricted Working Space, Add 8.21		18.26

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	32.15	20.41
For 300 LB Rating, Add	5.53	
For Standard Weight Cast Iron Fittings, Add	0.02	
For Work In Restricted Working Space, Add	9.18	
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow.....	36.86	22.77
For 300 LB Rating, Add	8.46	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	10.26	
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow	43.10	25.85
For 300 LB Rating, Add	12.88	
For Standard Weight Cast Iron Fittings, Add	0.07	
For Work In Restricted Working Space, Add	11.61	
23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	49.43	29.12
For 300 LB Rating, Add	16.51	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	65.43	37.03
For 300 LB Rating, Add	27.30	
For Standard Weight Cast Iron Fittings, Add	0.16	
For Work In Restricted Working Space, Add	16.63	
23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	104.29	54.77
For 300 LB Rating, Add	58.30	
For Standard Weight Cast Iron Fittings, Add	0.36	
For Work In Restricted Working Space, Add	24.62	
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow.....	140.51	72.00
For 300 LB Rating, Add	84.60	
For Standard Weight Cast Iron Fittings, Add	0.52	
For Work In Restricted Working Space, Add	32.39	
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	179.57	73.11
For 300 LB Rating, Add	174.39	
For Standard Weight Cast Iron Fittings, Add	1.12	
For Work In Restricted Working Space, Add	32.90	
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow.....	318.72	76.31
For 300 LB Rating, Add	497.21	
For Standard Weight Cast Iron Fittings, Add	3.27	
For Work In Restricted Working Space, Add	34.32	
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow.....	355.62	79.79
For 300 LB Rating, Add	573.60	
For Standard Weight Cast Iron Fittings, Add	3.78	
For Work In Restricted Working Space, Add	35.88	
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	27.48	16.72
For 300 LB Rating, Add	7.31	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	7.52	
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	31.48	19.28
For 300 LB Rating, Add	7.74	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	8.69	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	30.20	17.84
For 300 LB Rating, Add	9.98	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	8.01	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	35.61	21.64
For 300 LB Rating, Add	9.65	
For Standard Weight Cast Iron Fittings, Add	0.05	
For Work In Restricted Working Space, Add	9.72	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	34.23	20.51
For 300 LB Rating, Add	10.15	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	9.23	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	35.30	18.97
For 300 LB Rating, Add	18.05	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	8.55	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	41.83	24.31
For 300 LB Rating, Add	15.12	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	10.93	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	40.66	23.08
For 300 LB Rating, Add	16.50	
For Standard Weight Cast Iron Fittings, Add	0.10	
For Work In Restricted Working Space, Add	10.40	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	40.05	22.05
For 300 LB Rating, Add	18.85	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	9.91	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	48.77	27.48
For 300 LB Rating, Add	20.71	
For Standard Weight Cast Iron Fittings, Add	0.12	
For Work In Restricted Working Space, Add	12.35	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0055 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	46.51 20.57 0.12 11.67	25.95
23 21 13 23-0056 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	45.83 23.11 0.14 11.14	24.72
23 21 13 23-0057 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	60.56 29.42 0.18 14.86	33.02
23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	59.59 32.87 0.20 14.12	31.39
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	57.33 32.74 0.20 13.44	29.85
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	56.31 34.45 0.21 12.91	28.72
23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	98.99 76.70 0.48 20.63	45.84
23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	94.87 80.62 0.51 18.86	41.95
23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	151.59 141.52 0.91 28.50	63.38
23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	130.58 122.21 0.78 24.51	54.46
23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	201.01 238.36 1.55 31.29	69.55
23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow..... For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	25.56 8.02 0.04 6.84	11.38
23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow..... For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	29.46 6.71 0.03 8.21	18.26
23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow..... For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	33.21 8.08 0.04 9.18	20.41
23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	37.46 9.90 0.05 10.26	22.77
23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	44.50 16.24 0.09 11.61	25.85
23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	50.81 19.83 0.11 13.09	29.12
23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	66.28 29.34 0.17 16.63	37.03
23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	113.42 80.21 0.50 24.62	54.77
23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	148.70 104.25 0.65 32.39	72.00

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow.....	189.55	73.11
For 300 LB Rating, Add	198.34	
For Standard Weight Cast Iron Fittings, Add	1.28	
For Work In Restricted Working Space, Add	32.90	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow.....	430.00	76.31
For 300 LB Rating, Add	764.28	
For Standard Weight Cast Iron Fittings, Add	5.05	
For Work In Restricted Working Space, Add	34.32	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow.....	442.50	79.79
For 300 LB Rating, Add	782.11	
For Standard Weight Cast Iron Fittings, Add	5.17	
For Work In Restricted Working Space, Add	35.88	
23 21 13 23-0079 Black Malleable Iron Tees (23 21 13 23-0014)		
23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee.....	31.16	14.26
For 300 LB Rating, Add	8.12	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	8.55	
23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee.....	35.89	22.77
For 300 LB Rating, Add	6.13	
For Standard Weight Cast Iron Fittings, Add	0.03	
For Work In Restricted Working Space, Add	10.26	
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....	41.89	26.36
For 300 LB Rating, Add	8.22	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	11.84	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....	50.81	31.07
For 300 LB Rating, Add	12.85	
For Standard Weight Cast Iron Fittings, Add	0.07	
For Work In Restricted Working Space, Add	13.99	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....	62.22	37.03
For 300 LB Rating, Add	19.60	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	16.63	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....	74.60	44.10
For 300 LB Rating, Add	24.20	
For Standard Weight Cast Iron Fittings, Add	0.13	
For Work In Restricted Working Space, Add	19.85	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....	96.42	54.77
For 300 LB Rating, Add	39.41	
For Standard Weight Cast Iron Fittings, Add	0.23	
For Work In Restricted Working Space, Add	24.62	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....	138.94	72.00
For 300 LB Rating, Add	80.83	
For Standard Weight Cast Iron Fittings, Add	0.50	
For Work In Restricted Working Space, Add	32.39	
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....	173.84	85.54
For 300 LB Rating, Add	117.20	
For Standard Weight Cast Iron Fittings, Add	0.73	
For Work In Restricted Working Space, Add	38.46	
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....	248.78	92.38
For 300 LB Rating, Add	272.98	
For Standard Weight Cast Iron Fittings, Add	1.76	
For Work In Restricted Working Space, Add	41.55	
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....	498.66	109.68
For 300 LB Rating, Add	811.92	
For Standard Weight Cast Iron Fittings, Add	5.35	
For Work In Restricted Working Space, Add	49.34	
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....	546.60	125.38
For 300 LB Rating, Add	872.01	
For Standard Weight Cast Iron Fittings, Add	5.74	
For Work In Restricted Working Space, Add	56.39	
23 21 13 23-0092 Black Malleable Iron Reducing Tees (23 21 13 23-0014)		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....	37.09	22.77
For 300 LB Rating, Add	9.01	
For Standard Weight Cast Iron Fittings, Add	0.05	
For Work In Restricted Working Space, Add	10.26	
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....	43.23	26.36
For 300 LB Rating, Add	11.44	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	11.84	
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....	51.39	31.07
For 300 LB Rating, Add	14.25	
For Standard Weight Cast Iron Fittings, Add	0.08	
For Work In Restricted Working Space, Add	13.99	
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	64.82	37.03
For 300 LB Rating, Add	25.84	
For Standard Weight Cast Iron Fittings, Add	0.15	
For Work In Restricted Working Space, Add	16.63	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0097	EA	1-1/2"	150 LB, Black Malleable Iron Reducing Tee.....	76.56	44.10
			For 300 LB Rating, Add	28.91	
			For Standard Weight Cast Iron Fittings, Add	0.17	
			For Work In Restricted Working Space, Add	19.85	
23 21 13 23-0098	EA	2"	150 LB, Black Malleable Iron Reducing Tee.....	97.13	54.77
			For 300 LB Rating, Add	41.12	
			For Standard Weight Cast Iron Fittings, Add	0.24	
			For Work In Restricted Working Space, Add	24.62	
23 21 13 23-0099	EA	2-1/2"	150 LB, Black Malleable Iron Reducing Tee.....	154.95	72.00
			For 300 LB Rating, Add	119.25	
			For Standard Weight Cast Iron Fittings, Add	0.75	
			For Work In Restricted Working Space, Add	32.39	
23 21 13 23-0100	EA	3"	150 LB, Black Malleable Iron Reducing Tee.....	182.03	85.54
			For 300 LB Rating, Add	136.86	
			For Standard Weight Cast Iron Fittings, Add	0.86	
			For Work In Restricted Working Space, Add	38.46	
23 21 13 23-0101	EA	4"	150 LB, Black Malleable Iron Reducing Tee.....	269.02	92.38
			For 300 LB Rating, Add	321.56	
			For Standard Weight Cast Iron Fittings, Add	2.09	
			For Work In Restricted Working Space, Add	41.55	
23 21 13 23-0102	EA	5"	150 LB, Black Malleable Iron Reducing Tee.....	467.21	109.68
			For 300 LB Rating, Add	736.44	
			For Standard Weight Cast Iron Fittings, Add	4.84	
			For Work In Restricted Working Space, Add	49.34	
23 21 13 23-0103	EA	6"	150 LB, Black Malleable Iron Reducing Tee.....	531.33	125.38
			For 300 LB Rating, Add	835.37	
			For Standard Weight Cast Iron Fittings, Add	5.49	
			For Work In Restricted Working Space, Add	56.39	
23 21 13 23-0104 Black Malleable Iron Couplings (23 21 13 23-0014)					
23 21 13 23-0105	EA	3/8"	150 LB, Black Malleable Iron Coupling.....	25.08	11.38
			For 300 LB Rating, Add	6.86	
			For Standard Weight Cast Iron Fittings, Add	0.04	
			For Work In Restricted Working Space, Add	6.84	
23 21 13 23-0106	EA	1/2"	150 LB, Black Malleable Iron Coupling.....	29.11	18.26
			For 300 LB Rating, Add	5.87	
			For Standard Weight Cast Iron Fittings, Add	0.03	
			For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0107	EA	3/4"	150 LB, Black Malleable Iron Coupling.....	32.67	20.41
			For 300 LB Rating, Add	6.78	
			For Standard Weight Cast Iron Fittings, Add	0.03	
			For Work In Restricted Working Space, Add	9.18	
23 21 13 23-0108	EA	1"	150 LB, Black Malleable Iron Coupling.....	37.28	22.77
			For 300 LB Rating, Add	9.47	
			For Standard Weight Cast Iron Fittings, Add	0.05	
			For Work In Restricted Working Space, Add	10.26	
23 21 13 23-0109	EA	1-1/4"	150 LB, Black Malleable Iron Coupling.....	42.70	25.85
			For 300 LB Rating, Add	11.92	
			For Standard Weight Cast Iron Fittings, Add	0.06	
			For Work In Restricted Working Space, Add	11.61	
23 21 13 23-0110	EA	1-1/2"	150 LB, Black Malleable Iron Coupling.....	49.04	29.12
			For 300 LB Rating, Add	15.58	
			For Standard Weight Cast Iron Fittings, Add	0.09	
			For Work In Restricted Working Space, Add	13.09	
23 21 13 23-0111	EA	2"	150 LB, Black Malleable Iron Coupling.....	63.45	37.03
			For 300 LB Rating, Add	22.55	
			For Standard Weight Cast Iron Fittings, Add	0.13	
			For Work In Restricted Working Space, Add	16.63	
23 21 13 23-0112	EA	2-1/2"	150 LB, Black Malleable Iron Coupling.....	104.15	54.77
			For 300 LB Rating, Add	57.96	
			For Standard Weight Cast Iron Fittings, Add	0.35	
			For Work In Restricted Working Space, Add	24.62	
23 21 13 23-0113	EA	3"	150 LB, Black Malleable Iron Coupling.....	137.84	72.00
			For 300 LB Rating, Add	78.19	
			For Standard Weight Cast Iron Fittings, Add	0.48	
			For Work In Restricted Working Space, Add	32.39	
23 21 13 23-0114	EA	4"	150 LB, Black Malleable Iron Coupling.....	169.83	73.11
			For 300 LB Rating, Add	151.01	
			For Standard Weight Cast Iron Fittings, Add	0.96	
			For Work In Restricted Working Space, Add	32.90	
23 21 13 23-0115	EA	5"	150 LB, Black Malleable Iron Coupling.....	283.87	76.31
			For 300 LB Rating, Add	413.57	
			For Standard Weight Cast Iron Fittings, Add	2.71	
			For Work In Restricted Working Space, Add	34.32	
23 21 13 23-0116	EA	6"	150 LB, Black Malleable Iron Coupling.....	312.66	79.79
			For 300 LB Rating, Add	470.50	
			For Standard Weight Cast Iron Fittings, Add	3.09	
			For Work In Restricted Working Space, Add	35.88	

23 21 13 23-0117 Black Malleable Iron Reducing Couplings (23 21 13 23-0014)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	29.54	18.26
For 300 LB Rating, Add	6.90	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....	32.93	20.41
For 300 LB Rating, Add	7.40	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	9.18	
23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....	37.79	22.77
For 300 LB Rating, Add	10.69	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	10.26	
23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....	43.34	25.85
For 300 LB Rating, Add	13.46	
For Standard Weight Cast Iron Fittings, Add	0.07	
For Work In Restricted Working Space, Add	11.61	
23 21 13 23-0122 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	49.50	29.12
For 300 LB Rating, Add	16.68	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling.....	63.93	37.03
For 300 LB Rating, Add	23.70	
For Standard Weight Cast Iron Fittings, Add	0.14	
For Work In Restricted Working Space, Add	16.63	
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	107.14	54.77
For 300 LB Rating, Add	65.14	
For Standard Weight Cast Iron Fittings, Add	0.40	
For Work In Restricted Working Space, Add	24.62	
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling.....	138.45	72.00
For 300 LB Rating, Add	79.65	
For Standard Weight Cast Iron Fittings, Add	0.49	
For Work In Restricted Working Space, Add	32.39	
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling.....	170.77	73.11
For 300 LB Rating, Add	153.27	
For Standard Weight Cast Iron Fittings, Add	0.98	
For Work In Restricted Working Space, Add	32.90	
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling.....	251.79	76.31
For 300 LB Rating, Add	336.58	
For Standard Weight Cast Iron Fittings, Add	2.20	
For Work In Restricted Working Space, Add	34.32	
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling.....	296.06	79.79
For 300 LB Rating, Add	430.66	
For Standard Weight Cast Iron Fittings, Add	2.82	
For Work In Restricted Working Space, Add	35.88	
23 21 13 23-0129 Black Malleable Iron Caps (23 21 13 23-0014)		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap.....	14.11	8.51
For 300 LB Rating, Add	3.87	
For Standard Weight Cast Iron Fittings, Add	0.02	
For Work In Restricted Working Space, Add	3.85	
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap.....	15.41	9.13
For 300 LB Rating, Add	5.00	
For Standard Weight Cast Iron Fittings, Add	0.03	
For Work In Restricted Working Space, Add	4.10	
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap.....	17.89	10.57
For 300 LB Rating, Add	6.01	
For Standard Weight Cast Iron Fittings, Add	0.03	
For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap.....	19.87	11.38
For 300 LB Rating, Add	7.70	
For Standard Weight Cast Iron Fittings, Add	0.04	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap.....	20.91	11.38
For 300 LB Rating, Add	10.19	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap.....	27.64	14.67
For 300 LB Rating, Add	14.72	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap.....	40.14	18.26
For 300 LB Rating, Add	32.34	
For Standard Weight Cast Iron Fittings, Add	0.20	
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap.....	51.95	22.05
For 300 LB Rating, Add	47.27	
For Standard Weight Cast Iron Fittings, Add	0.30	
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap.....	69.94	25.10
For 300 LB Rating, Add	79.90	
For Standard Weight Cast Iron Fittings, Add	0.52	
For Work In Restricted Working Space, Add	11.28	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add 23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap For 300 LB Rating, Add For Standard Weight Cast Iron Fittings, Add For Work In Restricted Working Space, Add	124.09 187.86 1.23 14.10 197.33 342.58 2.26 16.80	31.39 37.31
23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)		
23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0161 EA 3/8", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0162 EA 1/2", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0163 EA 3/4", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0164 EA 1", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0165 EA 1-1/4", 300 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0166 EA 1-1/2", 300 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0167 EA 2", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0168 EA 2-1/2", 300 LB, Black Malleable Iron Union For Work In Restricted Working Space, Add 23 21 13 23-0169 EA 3", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add 23 21 13 23-0170 EA 4", 300 LB, Black Malleable Iron Union..... For Work In Restricted Working Space, Add	28.97 6.84 39.78 10.26 45.88 11.84 55.00 13.99 67.46 16.63 81.15 19.85 99.47 24.62 173.01 36.34 239.10 52.99 30.95 6.84 43.55 10.25 48.66 11.84 57.92 13.99 74.40 16.63 88.00 19.85 110.06 24.62 208.93 36.34 262.13 47.81 343.99 48.56 36.04 6.84 44.90 10.25 51.32 11.84 62.12 13.99 80.70 16.63 92.63 19.85 114.83 24.62 226.82 36.34 296.10 47.81 595.80 48.56	11.38 22.77 26.36 31.07 37.03 44.10 54.77 80.72 117.74 11.38 22.77 26.36 31.07 37.03 44.10 54.77 80.72 106.15 107.89 11.38 22.77 26.36 31.07 37.03 44.10 54.77 80.72 106.15 107.89
23 21 13 23-0171 Black Steel Nipples (23 21 13 23-0014)		
23 21 13 23-0172 EA 3/8" x Close, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add 23 21 13 23-0173 EA 1/2" x Close, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add 23 21 13 23-0174 EA 3/4" x Close, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add 23 21 13 23-0175 EA 1" x Close, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	15.29 0.32 4.40 15.19 0.27 4.40 15.27 0.31 4.40 16.68 0.45 4.73	9.74 9.74 9.74 10.57

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple.....	18.23	11.38
For Schedule 80 Nipples, Add	0.57	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple.....	18.51	11.38
For Schedule 80 Nipples, Add	0.71	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....	24.00	14.67
For Schedule 80 Nipples, Add	0.97	
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple.....	33.42	18.26
For Schedule 80 Nipples, Add	3.04	
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....	40.29	22.05
For Schedule 80 Nipples, Add	3.61	
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....	48.45	25.10
For Schedule 80 Nipples, Add	5.43	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0182 EA 3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....	15.38	9.74
For Schedule 80 Nipples, Add	0.37	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0183 EA 1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....	15.19	9.74
For Schedule 80 Nipples, Add	0.27	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0184 EA 3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....	15.32	9.74
For Schedule 80 Nipples, Add	0.34	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0185 EA 3/8" x 2" Long, Schedule 40 Black Steel Nipple.....	15.38	9.74
For Schedule 80 Nipples, Add	0.37	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0186 EA 1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	15.19	9.74
For Schedule 80 Nipples, Add	0.27	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0187 EA 3/4" x 2" Long, Schedule 40 Black Steel Nipple.....	15.32	9.74
For Schedule 80 Nipples, Add	0.34	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0188 EA 1" x 2" Long, Schedule 40 Black Steel Nipple.....	16.77	10.57
For Schedule 80 Nipples, Add	0.50	
For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0189 EA 1-1/4" x 2" Long, Schedule 40 Black Steel Nipple.....	18.39	11.38
For Schedule 80 Nipples, Add	0.65	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0190 EA 1-1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	18.63	11.38
For Schedule 80 Nipples, Add	0.77	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0191 EA 3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	15.59	9.74
For Schedule 80 Nipples, Add	0.47	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0192 EA 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	15.29	9.74
For Schedule 80 Nipples, Add	0.32	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0193 EA 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	15.40	9.74
For Schedule 80 Nipples, Add	0.38	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0194 EA 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	16.83	10.57
For Schedule 80 Nipples, Add	0.53	
For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0195 EA 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	18.47	11.38
For Schedule 80 Nipples, Add	0.69	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0196 EA 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	18.81	11.38
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0197 EA 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	24.28	14.67
For Schedule 80 Nipples, Add	1.11	
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0198 EA 3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	15.59	9.74
For Schedule 80 Nipples, Add	0.47	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0199 EA 1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	15.29	9.74
For Schedule 80 Nipples, Add	0.32	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0200 EA 3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	15.40	9.74
For Schedule 80 Nipples, Add	0.38	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0201 EA 1" x 3" Long, Schedule 40 Black Steel Nipple.....	16.83	10.57
For Schedule 80 Nipples, Add	0.53	
For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0202 EA 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple.....	18.47	11.38
For Schedule 80 Nipples, Add	0.69	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0203 EA 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	18.81	11.38
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.13	



Heating, Ventilating, And Air-Conditioning (HVAC)			23	23
HVAC Piping And Pumps			23 20	
Hydronic Piping And Pumps			23 21	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 21 13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple.....	24.28	14.67
		For Schedule 80 Nipples, Add	1.11	
		For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple	33.58	18.26
		For Schedule 80 Nipples, Add	3.12	
		For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple.....	40.92	22.05
		For Schedule 80 Nipples, Add	3.92	
		For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple	15.75	9.74
		For Schedule 80 Nipples, Add	0.55	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	15.42	9.74
		For Schedule 80 Nipples, Add	0.39	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	15.59	9.74
		For Schedule 80 Nipples, Add	0.47	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0210	EA	1" x 3-1/2" Long, Schedule 40 Black Steel Nipple	17.08	10.57
		For Schedule 80 Nipples, Add	0.65	
		For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0211	EA	1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	18.72	11.38
		For Schedule 80 Nipples, Add	0.82	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0212	EA	1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	19.01	11.38
		For Schedule 80 Nipples, Add	0.96	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0213	EA	2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	24.75	14.67
		For Schedule 80 Nipples, Add	1.35	
		For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0214	EA	2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	34.67	18.26
		For Schedule 80 Nipples, Add	3.66	
		For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0215	EA	3" x 3-1/2" Long, Schedule 40 Black Steel Nipple	42.36	22.05
		For Schedule 80 Nipples, Add	4.64	
		For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0216	EA	3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	15.75	9.74
		For Schedule 80 Nipples, Add	0.55	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0217	EA	1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	15.42	9.74
		For Schedule 80 Nipples, Add	0.39	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0218	EA	3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	15.59	9.74
		For Schedule 80 Nipples, Add	0.47	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0219	EA	1" x 4" Long, Schedule 40 Black Steel Nipple.....	17.08	10.57
		For Schedule 80 Nipples, Add	0.65	
		For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple	18.72	11.38
		For Schedule 80 Nipples, Add	0.82	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple	19.01	11.38
		For Schedule 80 Nipples, Add	0.96	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple.....	24.75	14.67
		For Schedule 80 Nipples, Add	1.35	
		For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple	34.67	18.26
		For Schedule 80 Nipples, Add	3.66	
		For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple.....	42.36	22.05
		For Schedule 80 Nipples, Add	4.64	
		For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple.....	50.15	25.10
		For Schedule 80 Nipples, Add	6.28	
		For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple	16.24	9.74
		For Schedule 80 Nipples, Add	0.80	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	15.55	9.74
		For Schedule 80 Nipples, Add	0.45	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	15.83	9.74
		For Schedule 80 Nipples, Add	0.59	
		For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple	17.32	10.57
		For Schedule 80 Nipples, Add	0.77	
		For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	19.04	11.38
		For Schedule 80 Nipples, Add	0.98	
		For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	19.44	11.38
		For Schedule 80 Nipples, Add	1.18	
		For Work In Restricted Working Space, Add	5.13	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	25.16	14.67
For Schedule 80 Nipples, Add	1.55	
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	35.39	18.26
For Schedule 80 Nipples, Add	4.02	
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	43.31	22.05
For Schedule 80 Nipples, Add	5.12	
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	51.94	25.10
For Schedule 80 Nipples, Add	7.18	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	16.24	9.74
For Schedule 80 Nipples, Add	0.80	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	15.55	9.74
For Schedule 80 Nipples, Add	0.45	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0238 EA 3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	15.83	9.74
For Schedule 80 Nipples, Add	0.59	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0239 EA 1" x 5" Long, Schedule 40 Black Steel Nipple.....	17.32	10.57
For Schedule 80 Nipples, Add	0.77	
For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0240 EA 1-1/4" x 5" Long, Schedule 40 Black Steel Nipple.....	19.04	11.38
For Schedule 80 Nipples, Add	0.98	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0241 EA 1-1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	19.44	11.38
For Schedule 80 Nipples, Add	1.18	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0242 EA 2" x 5" Long, Schedule 40 Black Steel Nipple.....	25.16	14.67
For Schedule 80 Nipples, Add	1.55	
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0243 EA 2-1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	35.39	18.26
For Schedule 80 Nipples, Add	4.02	
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0244 EA 3" x 5" Long, Schedule 40 Black Steel Nipple.....	43.31	22.05
For Schedule 80 Nipples, Add	5.12	
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0245 EA 4" x 5" Long, Schedule 40 Black Steel Nipple.....	51.94	25.10
For Schedule 80 Nipples, Add	7.18	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0246 EA 3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	16.42	9.74
For Schedule 80 Nipples, Add	0.89	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0247 EA 1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	15.66	9.74
For Schedule 80 Nipples, Add	0.51	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0248 EA 3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	15.99	9.74
For Schedule 80 Nipples, Add	0.67	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0249 EA 1" x 6" Long, Schedule 40 Black Steel Nipple.....	17.60	10.57
For Schedule 80 Nipples, Add	0.91	
For Work In Restricted Working Space, Add	4.73	
23 21 13 23-0250 EA 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple.....	19.40	11.38
For Schedule 80 Nipples, Add	1.16	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0251 EA 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	19.79	11.38
For Schedule 80 Nipples, Add	1.35	
For Work In Restricted Working Space, Add	5.13	
23 21 13 23-0252 EA 2" x 6" Long, Schedule 40 Black Steel Nipple.....	25.69	14.67
For Schedule 80 Nipples, Add	1.82	
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0253 EA 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	35.73	18.26
For Schedule 80 Nipples, Add	4.19	
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-0254 EA 3" x 6" Long, Schedule 40 Black Steel Nipple.....	44.20	22.05
For Schedule 80 Nipples, Add	5.56	
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0255 EA 4" x 6" Long, Schedule 40 Black Steel Nipple.....	52.93	25.10
For Schedule 80 Nipples, Add	7.67	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0256 EA 3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	17.76	9.74
For Schedule 80 Nipples, Add	1.56	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0257 EA 1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	16.47	9.74
For Schedule 80 Nipples, Add	0.91	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0258 EA 3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	16.87	9.74
For Schedule 80 Nipples, Add	1.11	
For Work In Restricted Working Space, Add	4.40	
23 21 13 23-0259 EA 1" x 8" Long, Schedule 40 Black Steel Nipple.....	18.75	10.57
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	4.73	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0260 EA 1-1/4" x 8" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	20.82 1.87 5.13	11.38
23 21 13 23-0261 EA 1-1/2" x 8" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	21.37 2.14 5.13	11.38
23 21 13 23-0262 EA 2" x 8" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	28.15 3.05 6.62	14.67
23 21 13 23-0263 EA 2-1/2" x 8" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	38.02 5.34 8.21	18.26
23 21 13 23-0264 EA 3" x 8" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	48.08 7.50 9.92	22.05
23 21 13 23-0265 EA 4" x 8" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	55.29 8.85 11.28	25.10
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	18.14 1.75 4.40	9.74
23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	16.83 1.09 4.40	9.74
23 21 13 23-0268 EA 3/4" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	17.24 1.30 4.40	9.74
23 21 13 23-0269 EA 1" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	19.25 1.74 4.73	10.57
23 21 13 23-0270 EA 1-1/4" x 10" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	21.57 2.24 5.13	11.38
23 21 13 23-0271 EA 1-1/2" x 10" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	22.10 2.51 5.13	11.38
23 21 13 23-0272 EA 2" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	29.22 3.58 6.62	14.67
23 21 13 23-0273 EA 2-1/2" x 10" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	39.33 5.99 8.21	18.26
23 21 13 23-0274 EA 3" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	49.93 8.43 9.92	22.05
23 21 13 23-0275 EA 4" x 10" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	57.75 10.08 11.28	25.10
23 21 13 23-0276 EA 3/8" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	18.62 1.99 4.40	9.74
23 21 13 23-0277 EA 1/2" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	17.24 1.30 4.40	9.74
23 21 13 23-0278 EA 3/4" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	17.52 1.44 4.40	9.74
23 21 13 23-0279 EA 1" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	19.77 2.00 4.73	10.57
23 21 13 23-0280 EA 1-1/4" x 12" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	22.17 2.54 5.13	11.38
23 21 13 23-0281 EA 1-1/2" x 12" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	22.86 2.89 5.13	11.38
23 21 13 23-0282 EA 2" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	30.30 4.12 6.62	14.67
23 21 13 23-0283 EA 2-1/2" x 12" Long, Schedule 40 Black Steel Nipple For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	40.68 6.67 8.21	18.26
23 21 13 23-0284 EA 3" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	51.79 9.36 9.92	22.05
23 21 13 23-0285 EA 4" x 12" Long, Schedule 40 Black Steel Nipple..... For Schedule 80 Nipples, Add For Work In Restricted Working Space, Add	61.23 11.82 11.28	25.10
23 21 13 23-0286 Black Malleable Iron Bushing (23 21 13 23-0014)		
23 21 13 23-0287 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing For Work In Restricted Working Space, Add	27.02 7.52	16.72
23 21 13 23-0288 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing For Work In Restricted Working Space, Add	29.75 8.08	17.94

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing	31.80	19.28
For Work In Restricted Working Space, Add	8.69	
23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing	32.61	19.18
For Work In Restricted Working Space, Add	8.62	
23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing	33.68	20.51
For Work In Restricted Working Space, Add	9.23	
23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing	35.31	21.64
For Work In Restricted Working Space, Add	9.72	
23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing	35.33	20.62
For Work In Restricted Working Space, Add	9.29	
23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing	37.19	22.05
For Work In Restricted Working Space, Add	9.91	
23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing	38.40	23.08
For Work In Restricted Working Space, Add	10.40	
23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing	40.19	24.31
For Work In Restricted Working Space, Add	10.93	
23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing	39.21	22.36
For Work In Restricted Working Space, Add	10.04	
23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing	40.24	23.69
For Work In Restricted Working Space, Add	10.65	
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing	41.87	24.72
For Work In Restricted Working Space, Add	11.14	
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing	43.08	25.95
For Work In Restricted Working Space, Add	11.67	
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing	45.93	27.48
For Work In Restricted Working Space, Add	12.35	
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing	47.48	26.26
For Work In Restricted Working Space, Add	11.81	
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing	48.57	27.59
For Work In Restricted Working Space, Add	12.42	
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing	49.09	28.72
For Work In Restricted Working Space, Add	12.91	
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing	50.49	29.85
For Work In Restricted Working Space, Add	13.44	
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing	52.75	31.39
For Work In Restricted Working Space, Add	14.12	
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing	55.86	33.02
For Work In Restricted Working Space, Add	14.86	
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing	66.66	37.54
For Work In Restricted Working Space, Add	16.90	
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing	68.45	38.76
For Work In Restricted Working Space, Add	17.44	
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing	70.70	40.20
For Work In Restricted Working Space, Add	18.11	
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing	72.46	41.95
For Work In Restricted Working Space, Add	18.86	
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing	78.29	45.84
For Work In Restricted Working Space, Add	20.63	
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing	83.57	46.15
For Work In Restricted Working Space, Add	20.79	
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing	85.34	47.38
For Work In Restricted Working Space, Add	21.32	
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing	87.61	48.92
For Work In Restricted Working Space, Add	22.00	
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing	89.80	50.57
For Work In Restricted Working Space, Add	22.74	
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing	94.78	54.46
For Work In Restricted Working Space, Add	24.51	
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing	108.28	63.38
For Work In Restricted Working Space, Add	28.50	
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing	96.23	45.86
For Work In Restricted Working Space, Add	20.66	
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing	97.87	46.99
For Work In Restricted Working Space, Add	21.15	
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing	99.93	48.40
For Work In Restricted Working Space, Add	21.77	
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing	102.20	49.91
For Work In Restricted Working Space, Add	22.45	
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing	106.14	53.47
For Work In Restricted Working Space, Add	24.07	
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing	118.32	61.65
For Work In Restricted Working Space, Add	27.72	
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing	130.21	69.55
For Work In Restricted Working Space, Add	31.29	
23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug	10.61	6.05
For Work In Restricted Working Space, Add	2.74	
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug	12.54	7.28
For Work In Restricted Working Space, Add	3.29	
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug	13.83	8.20
For Work In Restricted Working Space, Add	3.67	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug.....	15.67	9.13
For Work In Restricted Working Space, Add	4.10	
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug.....	18.01	10.35
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	20.97	11.59
For Work In Restricted Working Space, Add	5.24	
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug.....	27.19	14.77
For Work In Restricted Working Space, Add	6.65	
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	41.93	21.85
For Work In Restricted Working Space, Add	9.85	
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug.....	55.70	28.82
For Work In Restricted Working Space, Add	12.96	
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug.....	70.11	29.23
For Work In Restricted Working Space, Add	13.16	
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug.....	102.14	30.54
For Work In Restricted Working Space, Add	13.73	
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug.....	117.67	31.86
For Work In Restricted Working Space, Add	14.36	
23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges (23 21 13 23-0014)		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange.....	90.10	41.03
For Work In Restricted Working Space, Add	18.46	
23 21 13 23-0341 EA 1", 125 LB, Black Cast Iron Flange.....	87.71	46.35
For Work In Restricted Working Space, Add	20.86	
23 21 13 23-0342 EA 1-1/4", 125 LB, Black Cast Iron Flange.....	93.70	48.00
For Work In Restricted Working Space, Add	21.59	
23 21 13 23-0343 EA 1-1/2", 125 LB, Black Cast Iron Flange.....	98.38	52.21
For Work In Restricted Working Space, Add	23.49	
23 21 13 23-0344 EA 2", 125 LB, Black Cast Iron Flange.....	101.77	54.46
For Work In Restricted Working Space, Add	24.52	
23 21 13 23-0345 EA 2-1/2", 125 LB, Black Cast Iron Flange.....	117.97	63.07
For Work In Restricted Working Space, Add	28.35	
23 21 13 23-0346 EA 3", 125 LB, Black Cast Iron Flange.....	150.17	80.00
For Work In Restricted Working Space, Add	35.99	
23 21 13 23-0347 EA 4", 125 LB, Black Cast Iron Flange.....	191.09	100.28
For Work In Restricted Working Space, Add	45.11	
23 21 13 23-0348 EA 5", 125 LB, Black Cast Iron Flange.....	236.54	119.45
For Work In Restricted Working Space, Add	53.70	
23 21 13 23-0349 EA 6", 125 LB, Black Cast Iron Flange.....	270.67	137.12
For Work In Restricted Working Space, Add	61.67	
23 21 13 23-0350 150 LB, Black Malleable Iron Flanges (23 21 13 23-0014)		
23 21 13 23-0351 EA 1/2", 150 LB, Black Malleable Iron Flange.....	62.52	37.44
For Work In Restricted Working Space, Add	16.86	
23 21 13 23-0352 EA 3/4", 150 LB, Black Malleable Iron Flange.....	68.34	41.03
For Work In Restricted Working Space, Add	18.46	
23 21 13 23-0353 EA 1", 150 LB, Black Malleable Iron Flange.....	78.38	46.35
For Work In Restricted Working Space, Add	20.86	
23 21 13 23-0354 EA 1-1/4", 150 LB, Black Malleable Iron Flange.....	81.42	48.00
For Work In Restricted Working Space, Add	21.59	
23 21 13 23-0355 EA 1-1/2", 150 LB, Black Malleable Iron Flange.....	88.61	52.21
For Work In Restricted Working Space, Add	23.49	
23 21 13 23-0356 EA 2", 150 LB, Black Malleable Iron Flange.....	95.17	54.46
For Work In Restricted Working Space, Add	24.51	
23 21 13 23-0357 EA 2-1/2", 150 LB, Black Malleable Iron Flange.....	115.62	63.07
For Work In Restricted Working Space, Add	28.35	
23 21 13 23-0358 EA 3", 150 LB, Black Malleable Iron Flange.....	146.61	80.00
For Work In Restricted Working Space, Add	35.98	
23 21 13 23-0359 EA 4", 150 LB, Black Malleable Iron Flange.....	195.66	100.28
For Work In Restricted Working Space, Add	45.10	
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe (23 21 13 23-0014)		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0361 EA 1/2", Cut And Thread Existing In Place Black Steel Pipe.....	33.43	
For Work In Restricted Working Space, Add	10.03	
23 21 13 23-0362 EA 3/4", Cut And Thread Existing In Place Black Steel Pipe.....	36.77	
For Work In Restricted Working Space, Add	11.03	
23 21 13 23-0363 EA 1", Cut And Thread Existing In Place Black Steel Pipe.....	40.12	
For Work In Restricted Working Space, Add	12.04	
23 21 13 23-0364 EA 1-1/4", Cut And Thread Existing In Place Black Steel Pipe.....	43.46	
For Work In Restricted Working Space, Add	13.04	
23 21 13 23-0365 EA 1-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	45.68	
For Work In Restricted Working Space, Add	13.70	
23 21 13 23-0366 EA 2", Cut And Thread Existing In Place Black Steel Pipe.....	47.92	
For Work In Restricted Working Space, Add	14.38	
23 21 13 23-0367 EA 2-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	50.15	
For Work In Restricted Working Space, Add	15.05	
23 21 13 23-0368 EA 3", Cut And Thread Existing In Place Black Steel Pipe.....	52.38	
For Work In Restricted Working Space, Add	15.71	
23 21 13 23-0369 EA 4", Cut And Thread Existing In Place Black Steel Pipe.....	54.60	
For Work In Restricted Working Space, Add	16.38	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0370 EA 6", Cut And Thread Existing In Place Black Steel Pipe.....	59.06	
For Work In Restricted Working Space, Add	17.72	
23 21 13 23-0371 EA 8", Cut And Thread Existing In Place Black Steel Pipe.....	63.51	
For Work In Restricted Working Space, Add	19.05	
23 21 13 23-0372 EA 10", Cut And Thread Existing In Place Black Steel Pipe.....	69.09	
For Work In Restricted Working Space, Add	20.73	
23 21 13 23-0373 EA 12", Cut And Thread Existing In Place Black Steel Pipe.....	73.54	
For Work In Restricted Working Space, Add	22.06	
23 21 13 23-0374 Welded Black Steel Pipe (23 21 13 23)		
23 21 13 23-0375 Welded Plain End Black Steel Pipe Assemblies (23 21 13 23-0374)		
Note: ASTM A-53. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	22.31	7.77
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	5.69	
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	24.82	8.29
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	6.36	
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	29.31	8.81
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	7.30	
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	31.03	8.81
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	7.64	
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	35.58	8.81
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	8.84	
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	41.23	8.81
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	10.25	
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	46.24	8.61
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	10.82	
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	57.24	10.19
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	12.65	
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	73.76	15.20
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	14.56	
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	111.30	18.87
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	21.60	
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	144.45	23.59
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	25.77	
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	177.74	28.50
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	29.77	
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	198.76	37.18
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	33.21	
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	229.82	47.18
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	37.12	
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	282.14	58.41
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	40.73	
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	355.64	72.19
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	46.62	
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	431.53	81.80
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	51.25	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0393 Welded Black Steel Pipe And Fittings (23 21 13 23-0374) Note: ASTM A-53. Excludes hangers or fittings.		
23 21 13 23-0394 Welded Plain End Black Steel Piping (23 21 13 23-0393) Note: ASTM A-53		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	9.45 1.48 0.14 2.49	4.15
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	11.90 1.86 0.18 3.11	5.18
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	14.70 2.32 0.27 3.73	6.22
23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	17.52 2.78 0.36 4.35	7.25
23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	20.81 3.30 0.43 5.16	8.61
23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	23.69 4.88 0.50 5.85	9.74
23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	27.60 6.00 0.80 6.28	10.46
23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	36.60 8.27 1.28 7.78	12.95
23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	50.02 11.88 2.15 9.64	20.99
23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Schedule 30 Pipe, Deduct For Work In Restricted Working Space, Add	67.55 16.54 3.24 -9.45 12.17	20.29
23 21 13 23-0405 LF 10" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Schedule 30 Pipe, Deduct For Work In Restricted Working Space, Add	87.07 21.92 4.58 -12.53 14.66	24.43
23 21 13 23-0406 LF 12" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Schedule 30 Pipe, Deduct For Work In Restricted Working Space, Add	109.57 28.01 6.06 -16.01 17.72	29.53
23 21 13 23-0407 LF 14" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Schedule 30 Pipe, Deduct For Schedule 20 Pipe, Deduct For Work In Restricted Working Space, Add	108.33 27.02 5.53 -15.44 -28.57 18.68	31.14
23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Schedule 30 Pipe, Deduct For Schedule 20 Pipe, Deduct For Work In Restricted Working Space, Add	118.47 29.74 6.18 -16.99 -31.41 20.10	33.50
23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Schedule 30 Pipe, Deduct For Schedule 20 Pipe, Deduct For Work In Restricted Working Space, Add	143.79 37.65 8.56 -21.51 -39.46 21.74	36.24
23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	170.57 44.51 10.05 26.04	43.40
23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe For Schedule 80 Pipe, Add For Schedule A-106 Pipe, Add For Work In Restricted Working Space, Add	208.03 55.34 12.98 29.95	49.92
23 21 13 23-0412 Welded Plain End Black Steel 90 Degree Elbows (23 21 13 23-0393)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0413 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....102.27		59.82
For Schedule 80 Fittings, Add	21.27	
For Work In Restricted Working Space, Add	26.90	
23 21 13 23-0414 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....106.97		62.94
For Schedule 80 Fittings, Add	22.18	
For Work In Restricted Working Space, Add	28.31	
23 21 13 23-0415 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....120.17		71.72
For Schedule 80 Fittings, Add	24.76	
For Work In Restricted Working Space, Add	32.27	
23 21 13 23-0416 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....128.66		77.38
For Schedule 80 Fittings, Add	26.41	
For Work In Restricted Working Space, Add	34.81	
23 21 13 23-0417 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....163.57		100.68
For Schedule 80 Fittings, Add	33.22	
For Work In Restricted Working Space, Add	45.29	
23 21 13 23-0418 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....205.51		125.88
For Schedule 80 Fittings, Add	41.84	
For Work In Restricted Working Space, Add	56.60	
23 21 13 23-0419 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....230.14		140.13
For Schedule 80 Fittings, Add	46.99	
For Work In Restricted Working Space, Add	63.01	
23 21 13 23-0420 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....396.29		242.13
For Schedule 80 Fittings, Add	80.77	
For Work In Restricted Working Space, Add	108.91	
23 21 13 23-0421 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....680.93		399.57
For Schedule 80 Fittings, Add	141.37	
For Work In Restricted Working Space, Add	179.74	
23 21 13 23-0422 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....918.47		511.34
For Schedule 80 Fittings, Add	195.04	
For Work In Restricted Working Space, Add	230.00	
23 21 13 23-0423 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,154.92		584.47
For Schedule 80 Fittings, Add	254.48	
For Work In Restricted Working Space, Add	262.86	
23 21 13 23-0424 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,550.59		764.69
For Schedule 80 Fittings, Add	344.80	
For Work In Restricted Working Space, Add	343.93	
23 21 13 23-0425 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,902.16		903.87
For Schedule 80 Fittings, Add	428.36	
For Work In Restricted Working Space, Add	406.54	
23 21 13 23-0426 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....2,331.16		1,055.50
For Schedule 80 Fittings, Add	533.20	
For Work In Restricted Working Space, Add	474.72	
23 21 13 23-0427 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....2,728.17		1,176.94
For Schedule 80 Fittings, Add	633.18	
For Work In Restricted Working Space, Add	529.35	
23 21 13 23-0428 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....3,394.91		1,319.61
For Schedule 80 Fittings, Add	810.73	
For Work In Restricted Working Space, Add	593.55	
23 21 13 23-0429 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....3,895.55		1,363.68
For Schedule 80 Fittings, Add	954.00	
For Work In Restricted Working Space, Add	613.34	
23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows (23 21 13 23-0393)		
23 21 13 23-0431 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow .....500.53		242.54
For Schedule 80 Fittings, Add	111.97	
For Work In Restricted Working Space, Add	109.11	
23 21 13 23-0432 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....859.97		395.02
For Schedule 80 Fittings, Add	195.80	
For Work In Restricted Working Space, Add	177.69	
23 21 13 23-0433 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....905.86		395.02
For Schedule 80 Fittings, Add	209.57	
For Work In Restricted Working Space, Add	177.69	
23 21 13 23-0434 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,331.32		511.34
For Schedule 80 Fittings, Add	318.90	
For Work In Restricted Working Space, Add	230.00	
23 21 13 23-0435 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,440.75		511.34
For Schedule 80 Fittings, Add	351.72	
For Work In Restricted Working Space, Add	230.00	
23 21 13 23-0436 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,778.75		584.47
For Schedule 80 Fittings, Add	441.62	
For Work In Restricted Working Space, Add	262.86	
23 21 13 23-0437 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....1,778.75		584.47
For Schedule 80 Fittings, Add	441.62	
For Work In Restricted Working Space, Add	262.86	
23 21 13 23-0438 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....2,843.97		779.22
For Schedule 80 Fittings, Add	730.52	
For Work In Restricted Working Space, Add	350.48	
23 21 13 23-0439 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....2,843.97		779.22
For Schedule 80 Fittings, Add	730.52	
For Work In Restricted Working Space, Add	350.48	
23 21 13 23-0440 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....3,141.63		779.22
For Schedule 80 Fittings, Add	819.82	
For Work In Restricted Working Space, Add	350.48	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0441 Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)		
23 21 13 23-0442 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	98.12 20.19 26.43	58.77
23 21 13 23-0443 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	101.23 20.79 27.36	60.85
23 21 13 23-0444 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	114.71 23.42 31.41	69.86
23 21 13 23-0445 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	123.00 25.04 33.89	75.35
23 21 13 23-0446 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	156.18 31.51 43.85	97.43
23 21 13 23-0447 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	195.12 39.27 55.04	122.41
23 21 13 23-0448 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	224.68 45.36 63.00	140.03
23 21 13 23-0449 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	387.21 78.06 108.88	242.02
23 21 13 23-0450 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	658.17 134.61 179.54	399.16
23 21 13 23-0451 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	877.51 182.75 230.00	511.34
23 21 13 23-0452 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	1,079.71 231.91 262.86	584.47
23 21 13 23-0453 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	1,439.38 311.66 343.28	763.27
23 21 13 23-0454 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	1,756.35 384.43 407.08	905.09
23 21 13 23-0455 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	2,127.48 472.26 474.23	1,054.38
23 21 13 23-0456 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	2,466.09 554.77 528.74	1,175.53
23 21 13 23-0457 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	3,012.69 696.06 593.55	1,319.61
23 21 13 23-0458 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	3,396.03 804.14 613.34	1,363.68
23 21 13 23-0459 Welded Plain End Black Steel Tee (23 21 13 23-0393)		
23 21 13 23-0460 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	196.11 41.42 49.76	110.60
23 21 13 23-0461 EA 1" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	196.05 41.41 49.74	110.60
23 21 13 23-0462 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	220.90 46.90 55.33	123.03
23 21 13 23-0463 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	243.77 51.36 62.19	138.27
23 21 13 23-0464 EA 2" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	309.02 63.65 83.03	184.60
23 21 13 23-0465 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	351.05 72.66 93.29	207.41
23 21 13 23-0466 EA 3" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	421.66 86.88 113.19	251.87
23 21 13 23-0467 EA 4" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	607.25 124.89 163.66	363.92
23 21 13 23-0468 EA 6" Standard Weight, Welded Plain End Black Steel Tee For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	1,013.66 209.46 270.40	601.18

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0469 EA 8" Standard Weight, Welded Plain End Black Steel Tee.....	1,376.27	779.22
For Schedule 80 Fittings, Add	290.21	
For Work In Restricted Working Space, Add	350.48	
23 21 13 23-0470 EA 10" Standard Weight, Welded Plain End Black Steel Tee.....	1,711.74	909.06
For Schedule 80 Fittings, Add	370.41	
For Work In Restricted Working Space, Add	408.89	
23 21 13 23-0471 EA 12" Standard Weight, Welded Plain End Black Steel Tee.....	2,282.85	1,168.83
For Schedule 80 Fittings, Add	500.85	
For Work In Restricted Working Space, Add	525.72	
23 21 13 23-0472 EA 14" Standard Weight, Welded Plain End Black Steel Tee.....	2,897.31	1,363.68
For Schedule 80 Fittings, Add	654.53	
For Work In Restricted Working Space, Add	613.34	
23 21 13 23-0473 EA 16" Standard Weight, Welded Plain End Black Steel Tee.....	3,484.39	1,636.38
For Schedule 80 Fittings, Add	787.72	
For Work In Restricted Working Space, Add	736.00	
23 21 13 23-0474 EA 18" Standard Weight, Welded Plain End Black Steel Tee.....	4,410.13	1,818.21
For Schedule 80 Fittings, Add	1,036.82	
For Work In Restricted Working Space, Add	817.78	
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee.....	5,666.86	2,045.52
For Schedule 80 Fittings, Add	1,378.06	
For Work In Restricted Working Space, Add	920.00	
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee.....	6,474.10	2,202.86
For Schedule 80 Fittings, Add	1,595.46	
For Work In Restricted Working Space, Add	990.77	
23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees (23 21 13 23-0393)		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee	190.92	107.17
For Schedule 80 Fittings, Add	40.41	
For Work In Restricted Working Space, Add	48.20	
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee	196.05	110.60
For Schedule 80 Fittings, Add	41.41	
For Work In Restricted Working Space, Add	49.74	
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee	218.97	123.03
For Schedule 80 Fittings, Add	46.33	
For Work In Restricted Working Space, Add	55.33	
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee	241.84	138.27
For Schedule 80 Fittings, Add	50.79	
For Work In Restricted Working Space, Add	62.19	
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee	313.40	184.60
For Schedule 80 Fittings, Add	64.95	
For Work In Restricted Working Space, Add	83.05	
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee	351.16	207.51
For Schedule 80 Fittings, Add	72.68	
For Work In Restricted Working Space, Add	93.32	
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee	421.86	251.87
For Schedule 80 Fittings, Add	86.94	
For Work In Restricted Working Space, Add	113.19	
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee	607.54	363.92
For Schedule 80 Fittings, Add	124.98	
For Work In Restricted Working Space, Add	163.66	
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee	1,014.15	601.18
For Schedule 80 Fittings, Add	209.61	
For Work In Restricted Working Space, Add	270.40	
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee	1,377.21	779.22
For Schedule 80 Fittings, Add	290.50	
For Work In Restricted Working Space, Add	350.48	
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee	1,713.34	909.06
For Schedule 80 Fittings, Add	370.89	
For Work In Restricted Working Space, Add	408.89	
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee	2,285.25	1,168.83
For Schedule 80 Fittings, Add	501.57	
For Work In Restricted Working Space, Add	525.72	
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee	2,901.19	1,363.68
For Schedule 80 Fittings, Add	655.69	
For Work In Restricted Working Space, Add	613.34	
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee	3,489.09	1,636.38
For Schedule 80 Fittings, Add	789.13	
For Work In Restricted Working Space, Add	736.00	
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee	4,417.81	1,818.21
For Schedule 80 Fittings, Add	1,039.12	
For Work In Restricted Working Space, Add	817.78	
23 21 13 23-0493 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)		
23 21 13 23-0494 EA 3" x 2" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	235.73	139.61
For Schedule 80 Fittings, Add	48.73	
For Concentric Reducers, Deduct	-8.43	
For Work In Restricted Working Space, Add	62.82	
23 21 13 23-0495 EA 4" x 3" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	395.59	242.54
For Schedule 80 Fittings, Add	80.49	
For Concentric Reducers, Deduct	-10.21	
For Work In Restricted Working Space, Add	109.11	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0496 EA 4" x 2" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	404.77 83.24 -13.15 109.11	242.54
23 21 13 23-0497 EA 6" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	656.78 134.84 -20.64 177.69	395.02
23 21 13 23-0498 EA 6" x 3" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	703.75 148.93 -35.67 177.69	395.02
23 21 13 23-0499 EA 8" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	997.71 204.67 -30.84 270.40	601.18
23 21 13 23-0500 EA 8" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,067.73 225.68 -53.25 270.40	601.18
23 21 13 23-0501 EA 10" x 8" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,150.22 236.23 -36.39 310.95	691.36
23 21 13 23-0502 EA 10" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,238.27 262.65 -64.56 310.95	691.36
23 21 13 23-0503 EA 12" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,344.93 281.04 -57.24 349.81	777.71
23 21 13 23-0504 EA 12" x 8" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,446.90 311.64 -89.88 349.81	777.71
23 21 13 23-0505 EA 14" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,677.10 360.02 -100.52 408.89	909.06
23 21 13 23-0506 EA 14" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,733.98 377.08 -118.72 408.89	909.06
23 21 13 23-0507 EA 16" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	1,959.82 426.95 -136.47 460.00	1,022.76
23 21 13 23-0508 EA 16" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	2,106.13 470.84 -183.29 460.00	1,022.76
23 21 13 23-0509 EA 18" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer For Schedule 80 Fittings, Add For Concentric Reducers, Deduct For Work In Restricted Working Space, Add	2,445.83 549.75 -221.90 525.72	1,168.83
23 21 13 23-0510 Welded Plain End Black Steel Caps (23 21 13 23-0393)		
23 21 13 23-0511 EA 1" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	58.23 10.99 15.55	34.62
23 21 13 23-0512 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	63.82 12.02 17.10	38.04
23 21 13 23-0513 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	66.29 12.50 17.72	39.39
23 21 13 23-0514 EA 2" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	82.89 15.41 22.70	50.47
23 21 13 23-0515 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	98.43 18.13 27.36	60.85
23 21 13 23-0516 EA 3" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	115.65 21.54 31.57	70.17
23 21 13 23-0517 EA 4" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	195.72 35.98 54.56	121.28
23 21 13 23-0518 EA 6" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	326.77 60.48 90.13	200.36
23 21 13 23-0519 EA 8" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	545.14 100.34 151.69	337.28

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0520 EA 10" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	600.88 113.82 159.46	354.59
23 21 13 23-0521 EA 12" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	657.24 125.85 171.16	380.55
23 21 13 23-0522 EA 14" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	844.47 168.15 204.45	454.53
23 21 13 23-0523 EA 16" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	980.71 195.29 237.42	527.84
23 21 13 23-0524 EA 18" Standard Weight, Welded Plain End Black Steel Cap For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add	1,093.93 218.65 262.86	584.47
23 21 13 23-0525 150 LB, Welded Plain End Black Steel Neck Flanges (23 21 13 23-0393) Note: 150 LB.		
23 21 13 23-0526 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	142.02 35.95 32.00	71.15
23 21 13 23-0527 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	168.45 38.72 39.93	88.79
23 21 13 23-0528 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	202.57 42.33 50.15	111.53
23 21 13 23-0529 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	265.63 54.72 66.16	147.08
23 21 13 23-0530 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	403.74 83.67 100.31	223.06
23 21 13 23-0531 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	452.26 119.32 99.46	221.17
23 21 13 23-0532 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	614.26 182.57 124.75	277.32
23 21 13 23-0533 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	761.14 252.08 141.54	314.69
23 21 13 23-0534 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	1,009.77 367.37 171.16	380.55
23 21 13 23-0535 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	1,349.31 550.00 198.92	442.27
23 21 13 23-0536 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	1,696.14 744.95 223.03	495.86
23 21 13 23-0537 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	2,150.24 943.73 283.08	629.38
23 21 13 23-0538 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	2,455.08 1,110.33 306.67	681.84
23 21 13 23-0539 150 LB, Welded Black Steel Slip-On Flanges (23 21 13 23-0393)		
23 21 13 23-0540 EA 2", 150 LB, Welded Black Steel Slip-On Flanges For 300 LB Rating, Add For Work In Restricted Working Space, Add	102.30 24.56 25.48	71.15
23 21 13 23-0541 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	126.11 30.98 31.14	88.79
23 21 13 23-0542 EA 3", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	161.01 37.78 40.43	111.53
23 21 13 23-0543 EA 4", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	212.03 50.74 52.86	147.08
23 21 13 23-0544 EA 6", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	314.26 76.83 77.74	223.06
23 21 13 23-0545 EA 8", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	385.83 107.20 90.59	221.17
23 21 13 23-0546 EA 10", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	522.24 169.95 113.23	277.32
23 21 13 23-0547 EA 12", 150 LB, Welded Black Steel Slip-On Flange For 300 LB Rating, Add For Work In Restricted Working Space, Add	681.39 253.17 135.88	314.69

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0548 EA 14", 150 LB, Welded Black Steel Slip-On Flange	862.20	380.55
For 300 LB Rating, Add	355.89	
For Work In Restricted Working Space, Add	158.52	
23 21 13 23-0549 EA 16", 150 LB, Welded Black Steel Slip-On Flange	1,034.45	442.27
For 300 LB Rating, Add	465.91	
For Work In Restricted Working Space, Add	175.51	
23 21 13 23-0550 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,145.55	495.86
For 300 LB Rating, Add	520.89	
For Work In Restricted Working Space, Add	192.49	
23 21 13 23-0551 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,271.03	629.38
For 300 LB Rating, Add	588.81	
For Work In Restricted Working Space, Add	209.48	
23 21 13 23-0552 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,455.06	681.84
For 300 LB Rating, Add	664.41	
For Work In Restricted Working Space, Add	243.45	
23 21 13 23-0553 150 LB, Forged Steel Blind Flanges (23 21 13 23-0393)		
23 21 13 23-0554 EA 2", 150 LB, Forged Steel Blind Flange.....	75.68	27.87
For 300 LB Rating, Add	21.81	
For 600 LB Rating, Add	56.24	
For Work In Restricted Working Space, Add	16.72	
23 21 13 23-0555 EA 2-1/2", 150 LB, Forged Steel Blind Flange.....	99.23	33.44
For 300 LB Rating, Add	32.90	
For 600 LB Rating, Add	87.67	
For Work In Restricted Working Space, Add	20.06	
23 21 13 23-0556 EA 3", 150 LB, Forged Steel Blind Flange.....	122.64	44.58
For 300 LB Rating, Add	36.14	
For 600 LB Rating, Add	93.70	
For Work In Restricted Working Space, Add	26.75	
23 21 13 23-0557 EA 4", 150 LB, Forged Steel Blind Flange.....	157.58	55.73
For 300 LB Rating, Add	48.60	
For 600 LB Rating, Add	127.41	
For Work In Restricted Working Space, Add	33.44	
23 21 13 23-0558 EA 6", 150 LB, Forged Steel Blind Flange.....	214.79	72.46
For 300 LB Rating, Add	71.13	
For 600 LB Rating, Add	189.47	
For Work In Restricted Working Space, Add	43.47	
23 21 13 23-0559 EA 8", 150 LB, Forged Steel Blind Flange.....	278.06	83.60
For 300 LB Rating, Add	106.24	
For 600 LB Rating, Add	291.14	
For Work In Restricted Working Space, Add	50.16	
23 21 13 23-0560 EA 10", 150 LB, Forged Steel Blind Flange.....	417.13	100.32
For 300 LB Rating, Add	194.26	
For 600 LB Rating, Add	549.67	
For Work In Restricted Working Space, Add	60.19	
23 21 13 23-0561 EA 12", 150 LB, Forged Steel Blind Flange.....	540.50	117.04
For 300 LB Rating, Add	269.71	
For 600 LB Rating, Add	770.52	
For Work In Restricted Working Space, Add	70.22	
23 21 13 23-0562 EA 14", 150 LB, Forged Steel Blind Flange.....	898.41	133.76
For 300 LB Rating, Add	532.81	
For Work In Restricted Working Space, Add	80.25	
23 21 13 23-0563 EA 16", 150 LB, Forged Steel Blind Flange.....	965.97	150.47
For 300 LB Rating, Add	563.61	
For Work In Restricted Working Space, Add	90.29	
23 21 13 23-0564 EA 18", 150 LB, Forged Steel Blind Flange.....	1,090.13	183.92
For 300 LB Rating, Add	616.46	
For Work In Restricted Working Space, Add	110.35	
23 21 13 23-0565 EA 20", 150 LB, Forged Steel Blind Flange.....	1,390.22	200.64
For 300 LB Rating, Add	833.29	
For Work In Restricted Working Space, Add	120.38	
23 21 13 23-0566 EA 24", 150 LB, Forged Steel Blind Flange.....	1,883.99	234.08
For 300 LB Rating, Add	1,181.82	
For Work In Restricted Working Space, Add	140.45	
23 21 13 23-0567 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)		
23 21 13 23-0568 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let	77.84	
For Weld-O-Lets, Add	4.37	
For Sock-O-Lets, Add	30.02	
For Work In Restricted Working Space, Add	20.73	
23 21 13 23-0569 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let	93.18	
For Weld-O-Lets, Add	5.13	
For Sock-O-Lets, Add	35.92	
For Work In Restricted Working Space, Add	24.88	
23 21 13 23-0570 EA 1", 3,000 LB, Forge Steel Thread-O-Let	105.73	
For Weld-O-Lets, Add	5.75	
For Sock-O-Lets, Add	40.75	
For Work In Restricted Working Space, Add	28.27	
23 21 13 23-0571 EA 1-1/4" Or 1-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	119.96	
For Weld-O-Lets, Add	8.16	
For Sock-O-Lets, Add	46.40	
For Work In Restricted Working Space, Add	31.10	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0572 EA 2", 3,000 LB, Forge Steel Thread-O-Let .....135.57 For Weld-O-Lets, Add 10.20 For Sock-O-Lets, Add 52.54 For Work In Restricted Working Space, Add 34.55		
23 21 13 23-0573 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let .....222.11 For Weld-O-Lets, Add 37.02 For Sock-O-Lets, Add 88.10 For Work In Restricted Working Space, Add 44.42		
23 21 13 23-0574 EA 3", 3,000 LB, Forge Steel Thread-O-Let .....281.77 For Weld-O-Lets, Add 37.24 For Sock-O-Lets, Add 110.80 For Work In Restricted Working Space, Add 62.19		
23 21 13 23-0575 EA 4", 3,000 LB, Forge Steel Thread-O-Let .....404.90 For Weld-O-Lets, Add 72.89 For Sock-O-Lets, Add 161.15 For Work In Restricted Working Space, Add 77.74		
23 21 13 23-0576 Bolt, Nut, And 150 LB Rubber Flange Gasket Set (23 21 13 23-0393) Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0577 EA 3/4" To 1-1/2" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....7.14 Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 2.32 For 150 LB Rating Teflon Gasket Set, Add 9.32		
23 21 13 23-0578 EA 2" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....12.70 Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 4.13 For 150 LB Rating Teflon Gasket Set, Add 16.57		
23 21 13 23-0579 EA 2-1/2" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....13.62 Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 4.43 For 150 LB Rating Teflon Gasket Set, Add 17.77		
23 21 13 23-0580 EA 3" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....14.33 Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 4.66 For 150 LB Rating Teflon Gasket Set, Add 18.70		
23 21 13 23-0581 EA 4" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....24.93 Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 8.10 For 150 LB Rating Teflon Gasket Set, Add 32.53		
23 21 13 23-0582 EA 5" To 6" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....39.10 Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 12.71 For 150 LB Rating Teflon Gasket Set, Add 51.03		
23 21 13 23-0583 EA 8" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....42.06 Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 13.67 For 150 LB Rating Teflon Gasket Set, Add 54.89		
23 21 13 23-0584 EA 10" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....85.76 Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 27.87 For 150 LB Rating Teflon Gasket Set, Add 111.92		
23 21 13 23-0585 EA 12" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....92.82 Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 30.17 For 150 LB Rating Teflon Gasket Set, Add 121.13		
23 21 13 23-0586 EA 14" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....131.64 Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 42.78 For 150 LB Rating Teflon Gasket Set, Add 171.79		
23 21 13 23-0587 EA 16" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....171.71 Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 55.81 For 150 LB Rating Teflon Gasket Set, Add 224.08		
23 21 13 23-0588 EA 18" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....248.34 Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 80.71 For 150 LB Rating Teflon Gasket Set, Add 324.08		
23 21 13 23-0589 EA 20" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....343.15 Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 111.52 For 150 LB Rating Teflon Gasket Set, Add 447.81		
23 21 13 23-0590 EA 24" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....428.93 Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 139.40 For 150 LB Rating Teflon Gasket Set, Add 559.75		
23 21 13 23-0591 EA 30" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....716.73 Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 232.94 For 150 LB Rating Teflon Gasket Set, Add 935.33		
23 21 13 23-0592 EA 36" Diameter Pipe; Bolt, Nut And 150 LB Rubber Flange Gasket Set .....857.87 Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washer and nut. For 300 LB Rating Gasket Set, Add 278.81 For 150 LB Rating Teflon Gasket Set, Add 1,119.52		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0593 150 LB, Rubber Flange Gasket Replacement ^(23 21 13 23-0393)		
Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21 13 23-0594 EA 1/2", 150 LB, Rubber Flange Gasket Replacement	30.85	
For 300 LB Rating Gasket Set, Add	0.02	
For 150 LB Rating Teflon Gasket Set, Add	0.54	
For 300 LB Rating Teflon Gasket Set, Add	0.62	
For Work In Restricted Working Space, Add	9.23	
23 21 13 23-0595 EA 3/4", 150 LB, Rubber Flange Gasket Replacement	32.94	
For 300 LB Rating Gasket Set, Add	0.04	
For 150 LB Rating Teflon Gasket Set, Add	0.77	
For 300 LB Rating Teflon Gasket Set, Add	0.89	
For Work In Restricted Working Space, Add	9.85	
23 21 13 23-0596 EA 1", 150 LB, Rubber Flange Gasket Replacement	36.08	
For 300 LB Rating Gasket Set, Add	0.06	
For 150 LB Rating Teflon Gasket Set, Add	1.31	
For 300 LB Rating Teflon Gasket Set, Add	1.51	
For Work In Restricted Working Space, Add	10.77	
23 21 13 23-0597 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement	39.18	
For 300 LB Rating Gasket Set, Add	0.07	
For 150 LB Rating Teflon Gasket Set, Add	1.47	
For 300 LB Rating Teflon Gasket Set, Add	1.69	
For Work In Restricted Working Space, Add	11.70	
23 21 13 23-0598 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement	43.33	
For 300 LB Rating Gasket Set, Add	0.08	
For 150 LB Rating Teflon Gasket Set, Add	1.86	
For 300 LB Rating Teflon Gasket Set, Add	2.14	
For Work In Restricted Working Space, Add	12.93	
23 21 13 23-0599 EA 2", 150 LB, Rubber Flange Gasket Replacement	47.54	
For 300 LB Rating Gasket Set, Add	0.12	
For 150 LB Rating Teflon Gasket Set, Add	2.63	
For 300 LB Rating Teflon Gasket Set, Add	3.03	
For Work In Restricted Working Space, Add	14.16	
23 21 13 23-0600 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement	55.86	
For 300 LB Rating Gasket Set, Add	0.16	
For 150 LB Rating Teflon Gasket Set, Add	3.56	
For 300 LB Rating Teflon Gasket Set, Add	4.09	
For Work In Restricted Working Space, Add	16.62	
23 21 13 23-0601 EA 3", 150 LB, Rubber Flange Gasket Replacement	59.01	
For 300 LB Rating Gasket Set, Add	0.19	
For 150 LB Rating Teflon Gasket Set, Add	4.10	
For 300 LB Rating Teflon Gasket Set, Add	4.72	
For Work In Restricted Working Space, Add	17.54	
23 21 13 23-0602 EA 4", 150 LB, Rubber Flange Gasket Replacement	77.83	
For 300 LB Rating Gasket Set, Add	0.30	
For 150 LB Rating Teflon Gasket Set, Add	6.73	
For 300 LB Rating Teflon Gasket Set, Add	7.74	
For Work In Restricted Working Space, Add	23.09	
23 21 13 23-0603 EA 5", 150 LB, Rubber Flange Gasket Replacement	90.24	
For 300 LB Rating Gasket Set, Add	0.34	
For 150 LB Rating Teflon Gasket Set, Add	7.50	
For 300 LB Rating Teflon Gasket Set, Add	8.63	
For Work In Restricted Working Space, Add	26.78	
23 21 13 23-0604 EA 6", 150 LB, Rubber Flange Gasket Replacement	102.83	
For 300 LB Rating Gasket Set, Add	0.44	
For 150 LB Rating Teflon Gasket Set, Add	9.74	
For 300 LB Rating Teflon Gasket Set, Add	11.21	
For Work In Restricted Working Space, Add	30.47	
23 21 13 23-0605 EA 8", 150 LB, Rubber Flange Gasket Replacement	124.97	
For 300 LB Rating Gasket Set, Add	0.64	
For 150 LB Rating Teflon Gasket Set, Add	14.22	
For 300 LB Rating Teflon Gasket Set, Add	16.38	
For Work In Restricted Working Space, Add	36.94	
23 21 13 23-0606 EA 10", 150 LB, Rubber Flange Gasket Replacement	133.94	
For 300 LB Rating Gasket Set, Add	0.91	
For 150 LB Rating Teflon Gasket Set, Add	20.18	
For 300 LB Rating Teflon Gasket Set, Add	23.23	
For Work In Restricted Working Space, Add	39.40	
23 21 13 23-0607 EA 12", 150 LB, Rubber Flange Gasket Replacement	152.12	
For 300 LB Rating Gasket Set, Add	1.17	
For 150 LB Rating Teflon Gasket Set, Add	25.82	
For 300 LB Rating Teflon Gasket Set, Add	29.73	
For Work In Restricted Working Space, Add	44.63	
23 21 13 23-0608 EA 14", 150 LB, Rubber Flange Gasket Replacement	157.90	
For 300 LB Rating Gasket Set, Add	1.40	
For 150 LB Rating Teflon Gasket Set, Add	30.84	
For 300 LB Rating Teflon Gasket Set, Add	35.51	
For Work In Restricted Working Space, Add	46.17	
23 21 13 23-0609 EA 16", 150 LB, Rubber Flange Gasket Replacement	209.65	
For 300 LB Rating Gasket Set, Add	1.56	
For 150 LB Rating Teflon Gasket Set, Add	34.40	
For 300 LB Rating Teflon Gasket Set, Add	39.61	
For Work In Restricted Working Space, Add	61.56	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0610 EA 18", 150 LB, Rubber Flange Gasket Replacement For 300 LB Rating Gasket Set, Add For 150 LB Rating Teflon Gasket Set, Add For 300 LB Rating Teflon Gasket Set, Add For Work In Restricted Working Space, Add	229.33 1.62 35.87 41.30 67.41	
23 21 13 23-0611 EA 20", 150 LB, Rubber Flange Gasket Replacement For 300 LB Rating Gasket Set, Add For 150 LB Rating Teflon Gasket Set, Add For 300 LB Rating Teflon Gasket Set, Add For Work In Restricted Working Space, Add	278.91 1.74 38.50 44.32 82.18	
23 21 13 23-0612 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393) Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0613 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	22.29 6.69	
23 21 13 23-0614 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	24.07 7.22	
23 21 13 23-0615 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	27.08 8.12	
23 21 13 23-0616 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	28.42 8.53	
23 21 13 23-0617 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	30.09 9.03	
23 21 13 23-0618 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	32.31 9.69	
23 21 13 23-0619 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	34.55 10.37	
23 21 13 23-0620 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	37.89 11.37	
23 21 13 23-0621 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	41.23 12.37	
23 21 13 23-0622 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	44.57 13.37	
23 21 13 23-0623 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	47.92 14.38	
23 21 13 23-0624 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	52.38 15.71	
23 21 13 23-0625 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	56.83 17.05	
23 21 13 23-0626 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	61.28 18.38	
23 21 13 23-0627 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	65.74 19.72	
23 21 13 23-0628 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	69.09 20.73	
23 21 13 23-0629 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	72.43 21.73	
23 21 13 23-0630 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe For Work In Restricted Working Space, Add	76.89 23.07	
23 21 13 23-0631 Welded Plain End Electric Resistance Black Steel Pipe (23 21 13 23-0393) Note: ASTM A-135.		
23 21 13 23-0632 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	21.09 5.60	11.40
23 21 13 23-0633 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	22.40 5.60	12.44
23 21 13 23-0634 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	22.92 5.49	12.23
23 21 13 23-0635 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	28.90 6.99	15.54
23 21 13 23-0636 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	45.31 10.34	23.01
23 21 13 23-0637 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	53.97 11.61	25.76
23 21 13 23-0638 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	70.82 14.44	32.08
23 21 13 23-0639 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	85.75 17.40	38.69
23 21 13 23-0640 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings For Work In Restricted Working Space, Add	110.11 22.58	50.20
23 21 13 23-0641 Flanged Steel Fittings (23 21 13 23) See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0525 for welded neck flange ends.		
23 21 13 23-0642 Flanged Steel Fittings, Standard Weight (23 21 13 23-0641) Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0576 for gaskets.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0643 Flanged Steel, 90 Degree Elbows (23 21 13 23-0642)		
23 21 13 23-0644 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	429.25 285.96 428.94	47.89
23 21 13 23-0645 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	478.76 319.01 478.51	53.33
23 21 13 23-0646 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	476.18 310.38 465.58	58.87
23 21 13 23-0647 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	603.71 400.92 601.38	68.41
23 21 13 23-0648 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	842.35 581.98 872.96	76.61
23 21 13 23-0649 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	891.34 606.41 909.61	88.92
23 21 13 23-0650 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,129.67 785.58 1,178.38	98.46
23 21 13 23-0651 Flanged Steel, Reducing 90 Degree Elbows (23 21 13 23-0642)		
23 21 13 23-0652 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	797.98 577.66 866.50	50.67
23 21 13 23-0653 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	831.33 597.78 896.68	56.11
23 21 13 23-0654 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,034.81 751.54 1,127.32	63.59
23 21 13 23-0655 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,279.85 942.66 1,413.98	67.69
23 21 13 23-0656 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,457.93 1,071.98 1,607.98	78.66
23 21 13 23-0657 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	2,031.94 1,513.14 2,269.72	93.74
23 21 13 23-0658 Flanged Steel, 45 Degree Elbows (23 21 13 23-0642)		
23 21 13 23-0659 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	558.58 389.42 584.14	47.89
23 21 13 23-0660 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	582.94 402.35 603.53	53.33
23 21 13 23-0661 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	605.51 413.85 620.77	58.87
23 21 13 23-0662 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	754.59 521.62 782.44	68.41
23 21 13 23-0663 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,086.64 777.41 1,166.11	76.61
23 21 13 23-0664 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,060.18 741.48 1,112.22	88.92
23 21 13 23-0665 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,249.92 881.78 1,322.68	98.46
23 21 13 23-0666 Flanged Steel, Tees (23 21 13 23-0642)		
23 21 13 23-0667 EA 2" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	551.36 354.94 532.40	71.80
23 21 13 23-0668 EA 2-1/2" Standard Weight, Flanged Steel, Tee For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	710.95 472.77 709.15	80.00
23 21 13 23-0669 EA 3" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	649.63 413.86 620.78	88.20
23 21 13 23-0670 EA 4" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	926.20 617.89 926.83	102.66

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0671 EA 5" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,372.85 960.43 1,440.65	114.98
23 21 13 23-0672 EA 6" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,674.93 1,179.95 1,769.93	133.43
23 21 13 23-0673 EA 8" Standard Weight, Flanged Steel, Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,855.07 1,298.62 1,947.94	154.56
23 21 13 23-0674 Flanged Steel, Reducing Tees (23 21 13 23-0642)		
23 21 13 23-0675 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	868.51 602.10 903.14	77.33
23 21 13 23-0676 EA 3" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,002.97 699.81 1,049.71	85.54
23 21 13 23-0677 EA 4" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,721.84 1,260.14 1,890.22	97.85
23 21 13 23-0678 EA 5" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,861.58 1,356.34 2,034.50	110.87
23 21 13 23-0679 EA 6" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	2,339.11 1,718.67 2,578.01	127.28
23 21 13 23-0680 EA 8" Standard Weight, Flanged Steel, Reducing Tee..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	2,919.47 2,164.10 3,246.14	142.97
23 21 13 23-0681 Flanged Steel, Concentric Reducers (23 21 13 23-0642)		
23 21 13 23-0682 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	820.55 589.16 883.74	56.11
23 21 13 23-0683 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	932.42 669.63 1,004.45	63.59
23 21 13 23-0684 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,382.23 1,018.82 1,528.22	72.51
23 21 13 23-0685 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,524.40 1,125.16 1,687.74	78.66
23 21 13 23-0686 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,785.85 1,316.27 1,974.41	93.74
23 21 13 23-0687 Flanged Steel, Eccentric Reducers (23 21 13 23-0642)		
23 21 13 23-0688 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,085.10 791.78 1,187.66	63.59
23 21 13 23-0689 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer..... For Galvanized Fittings, Add For Extra Heavy Weight Fittings, Add	1,479.23 1,096.42 1,644.62	72.51
23 21 13 23-0690 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0691 Plain End Piping System Couplings (23 21 13 23-0690)		
23 21 13 23-0692 Plainlock Plain End Piping System Couplings (23 21 13 23-0691)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0693 EA 1" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	107.32 19.62	6.15
23 21 13 23-0694 EA 1-1/2" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	110.90 19.62	8.51
23 21 13 23-0695 EA 2" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	115.06 19.62	11.28
23 21 13 23-0696 EA 2-1/2" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	118.60 19.62	13.64
23 21 13 23-0697 EA 3" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	140.37 23.15	16.41
23 21 13 23-0698 EA 4" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	193.20 32.08	21.85
23 21 13 23-0699 EA 6" Plainlock Plain End Piping System Coupling..... For Galvanized Fittings, Add	324.14 54.16	35.59
23 21 13 23-0700 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0691)		
Note: Ductile iron body with gasket, bolts and nuts.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0701 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	129.95 29.28	8.51
23 21 13 23-0702 EA 2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	134.11 29.28	11.28
23 21 13 23-0703 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	137.66 29.28	13.74
23 21 13 23-0704 EA 3" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	198.10 43.38	16.41
23 21 13 23-0705 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	229.53 50.20	19.18
23 21 13 23-0706 EA 4" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	233.59 50.20	21.85
23 21 13 23-0707 EA 5" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	327.92 71.72	27.38
23 21 13 23-0708 EA 6" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	403.69 87.59	35.59
23 21 13 23-0709 EA 8" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	684.90 155.31	42.46
23 21 13 23-0710 EA 10" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	883.65 202.06	50.25
23 21 13 23-0711 EA 12" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,103.39 253.54	59.48
23 21 13 23-0712 EA 14" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,538.74 360.03	65.75
23 21 13 23-0713 EA 16" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	2,083.61 493.03	74.36
23 21 13 23-0714 Plain End Piping System Fittings (23 21 13 23-0690) Note: Cast ductile iron bodies.		
23 21 13 23-0715 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0714)		
23 21 13 23-0716 EA 1" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	109.35 18.52	11.18
23 21 13 23-0717 EA 1-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	117.97 18.52	16.92
23 21 13 23-0718 EA 2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	126.11 18.52	22.36
23 21 13 23-0719 EA 2-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	133.42 18.52	27.28
23 21 13 23-0720 EA 3" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	160.71 22.24	33.02
23 21 13 23-0721 EA 4" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	227.42 32.44	43.49
23 21 13 23-0722 EA 5" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	643.02 112.27	54.46
23 21 13 23-0723 EA 6" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	553.20 89.27	71.29
23 21 13 23-0724 EA 8" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,069.70 188.55	84.62
23 21 13 23-0725 EA 10" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,333.13 236.98	98.87
23 21 13 23-0726 EA 12" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,686.74 301.74	118.77
23 21 13 23-0727 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0714)		
23 21 13 23-0728 EA 1" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	109.35 18.52	11.18
23 21 13 23-0729 EA 1-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	117.97 18.52	16.92
23 21 13 23-0730 EA 2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	126.11 18.52	22.36
23 21 13 23-0731 EA 2-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	133.42 18.52	27.28
23 21 13 23-0732 EA 3" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	160.71 22.24	33.02
23 21 13 23-0733 EA 4" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	227.42 32.44	43.49
23 21 13 23-0734 EA 5" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	643.02 112.27	54.46
23 21 13 23-0735 EA 6" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	554.92 89.62	71.29
23 21 13 23-0736 EA 8" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	644.95 103.60	84.62
23 21 13 23-0737 EA 10" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	871.14 144.59	98.87
23 21 13 23-0738 EA 12" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,111.99 186.79	118.77
23 21 13 23-0739 Plain End Piping System, Tees (23 21 13 23-0714)		
23 21 13 23-0740 EA 1" Plain End Piping System, Tee..... <i>For Galvanized Fittings, Add</i>	150.06 24.94	16.92

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0741 EA 1-1/2" Plain End Piping System, Tee For Galvanized Fittings, Add	162.78 24.94	25.43
23 21 13 23-0742 EA 2" Plain End Piping System, Tee For Galvanized Fittings, Add	173.99 24.94	32.92
23 21 13 23-0743 EA 2-1/2" Plain End Piping System, Tee For Galvanized Fittings, Add	185.15 24.94	40.30
23 21 13 23-0744 EA 3" Plain End Piping System, Tee For Galvanized Fittings, Add	253.74 35.88	49.54
23 21 13 23-0745 EA 4" Plain End Piping System, Tee For Galvanized Fittings, Add	345.57 49.91	64.10
23 21 13 23-0746 EA 5" Plain End Piping System, Tee For Galvanized Fittings, Add	673.83 109.63	83.79
23 21 13 23-0747 EA 6" Plain End Piping System, Tee For Galvanized Fittings, Add	833.82 135.30	104.92
23 21 13 23-0748 EA 8" Plain End Piping System, Tee For Galvanized Fittings, Add	1,128.72 187.47	127.59
23 21 13 23-0749 EA 10" Plain End Piping System, Tee For Galvanized Fittings, Add	1,654.41 286.29	148.71
23 21 13 23-0750 EA 12" Plain End Piping System, Tee For Galvanized Fittings, Add	2,203.52 387.29	178.15
23 21 13 23-0751 Plain End Piping System, Reducing Tees (23 21 13 23-0714)		
23 21 13 23-0752 EA 1-1/2" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	287.32 49.29	27.28
23 21 13 23-0753 EA 2" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	295.75 49.29	32.92
23 21 13 23-0754 EA 2-1/2" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	306.91 49.29	40.30
23 21 13 23-0755 EA 3" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	320.76 49.29	49.54
23 21 13 23-0756 EA 4" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	459.87 72.77	64.10
23 21 13 23-0757 EA 6" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	775.13 123.56	104.92
23 21 13 23-0758 EA 8" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	1,004.98 162.73	127.59
23 21 13 23-0759 EA 10" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	1,477.30 250.87	148.71
23 21 13 23-0760 EA 12" Plain End Piping System, Reducing Tee For Galvanized Fittings, Add	2,152.84 377.15	178.15
23 21 13 23-0761 Plain End Piping System, Wyes (23 21 13 23-0714)		
23 21 13 23-0762 EA 2" Plain End Piping System, Wye For Galvanized Fittings, Add	414.51 73.04	32.92
23 21 13 23-0763 EA 2-1/2" Plain End Piping System, Wye For Galvanized Fittings, Add	425.67 73.04	40.30
23 21 13 23-0764 EA 3" Plain End Piping System, Wye For Galvanized Fittings, Add	484.83 82.10	49.54
23 21 13 23-0765 EA 4" Plain End Piping System, Wye For Galvanized Fittings, Add	705.36 121.86	64.10
23 21 13 23-0766 EA 5" Plain End Piping System, Wye For Galvanized Fittings, Add	867.16 148.29	83.79
23 21 13 23-0767 EA 6" Plain End Piping System, Wye For Galvanized Fittings, Add	1,178.34 204.21	104.92
23 21 13 23-0768 EA 8" Plain End Piping System, Wye For Galvanized Fittings, Add	1,513.65 264.46	127.59
23 21 13 23-0769 EA 10" Plain End Piping System, Wye For Galvanized Fittings, Add	2,172.86 389.98	148.71
23 21 13 23-0770 EA 12" Plain End Piping System, Wye For Galvanized Fittings, Add	3,273.03 601.19	178.15
23 21 13 23-0771 Plain End Piping System, Laterals (23 21 13 23-0714)		
23 21 13 23-0772 EA 2" Plain End Piping System, Lateral For Galvanized Fittings, Add	440.34 78.21	32.92
23 21 13 23-0773 EA 2-1/2" Plain End Piping System, Lateral For Galvanized Fittings, Add	451.50 78.21	40.30
23 21 13 23-0774 EA 3" Plain End Piping System, Lateral For Galvanized Fittings, Add	510.48 87.23	49.54
23 21 13 23-0775 EA 4" Plain End Piping System, Lateral For Galvanized Fittings, Add	754.36 131.66	64.10
23 21 13 23-0776 EA 5" Plain End Piping System, Lateral For Galvanized Fittings, Add	983.86 171.63	83.79
23 21 13 23-0777 EA 6" Plain End Piping System, Lateral For Galvanized Fittings, Add	1,253.42 219.22	104.92
23 21 13 23-0778 EA 8" Plain End Piping System, Lateral For Galvanized Fittings, Add	1,789.44 319.62	127.59
23 21 13 23-0779 EA 10" Plain End Piping System, Lateral For Galvanized Fittings, Add	2,478.85 451.18	148.71
23 21 13 23-0780 EA 12" Plain End Piping System, Lateral For Galvanized Fittings, Add	3,318.51 610.28	178.15

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0781 Plain End Piping System, Crosses (23 21 13 23-0714)		
23 21 13 23-0782 EA 2" Plain End Piping System, Cross.....	498.47	49.33
For Galvanized Fittings, Add	53.07	
23 21 13 23-0783 EA 2-1/2" Plain End Piping System, Cross.....	515.19	60.41
For Galvanized Fittings, Add	53.07	
23 21 13 23-0784 EA 3" Plain End Piping System, Cross.....	603.93	74.36
For Galvanized Fittings, Add	61.56	
23 21 13 23-0785 EA 4" Plain End Piping System, Cross.....	820.56	96.10
For Galvanized Fittings, Add	84.56	
23 21 13 23-0786 EA 5" Plain End Piping System, Cross.....	1,149.41	125.74
For Galvanized Fittings, Add	120.11	
23 21 13 23-0787 EA 6" Plain End Piping System, Cross.....	1,504.00	156.92
For Galvanized Fittings, Add	158.60	
23 21 13 23-0788 EA 8" Plain End Piping System, Cross.....	1,912.58	190.05
For Galvanized Fittings, Add	203.46	
23 21 13 23-0789 EA 10" Plain End Piping System, Cross.....	2,707.90	222.15
For Galvanized Fittings, Add	296.86	
23 21 13 23-0790 EA 12" Plain End Piping System, Cross.....	3,825.06	267.28
For Galvanized Fittings, Add	428.05	
23 21 13 23-0791 Plain End Piping System, Adapter Nipples (23 21 13 23-0714)		
Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0792 EA 1" Plain End Piping System, Adapter Nipple.....	21.91	6.15
For Galvanized Fittings, Add	3.17	
23 21 13 23-0793 EA 1-1/2" Plain End Piping System, Adapter Nipple.....	25.85	8.51
For Galvanized Fittings, Add	3.26	
23 21 13 23-0794 EA 2" Plain End Piping System, Adapter Nipple.....	29.90	11.28
For Galvanized Fittings, Add	3.26	
23 21 13 23-0795 EA 2-1/2" Plain End Piping System, Adapter Nipple.....	35.77	13.64
For Galvanized Fittings, Add	3.82	
23 21 13 23-0796 EA 3" Plain End Piping System, Adapter Nipple.....	43.47	16.41
For Galvanized Fittings, Add	4.72	
23 21 13 23-0797 EA 4" Plain End Piping System, Adapter Nipple.....	64.35	21.85
For Galvanized Fittings, Add	7.88	
23 21 13 23-0798 EA 6" Plain End Piping System, Adapter Nipple.....	126.31	27.38
For Galvanized Fittings, Add	21.32	
23 21 13 23-0799 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0714)		
23 21 13 23-0800 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	64.65	14.67
For Galvanized Fittings, Add	10.65	
23 21 13 23-0801 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	68.77	17.43
For Galvanized Fittings, Add	10.65	
23 21 13 23-0802 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	72.91	20.21
For Galvanized Fittings, Add	10.65	
23 21 13 23-0803 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	71.90	19.59
For Galvanized Fittings, Add	10.65	
23 21 13 23-0804 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	75.95	22.26
For Galvanized Fittings, Add	10.65	
23 21 13 23-0805 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	80.03	24.92
For Galvanized Fittings, Add	10.65	
23 21 13 23-0806 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	85.67	22.56
For Galvanized Fittings, Add	12.97	
23 21 13 23-0807 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	89.32	24.92
For Galvanized Fittings, Add	12.97	
23 21 13 23-0808 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	81.47	27.70
For Galvanized Fittings, Add	9.98	
23 21 13 23-0809 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	89.41	33.02
For Galvanized Fittings, Add	9.98	
23 21 13 23-0810 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	101.03	35.59
For Galvanized Fittings, Add	11.93	
23 21 13 23-0811 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	115.00	28.00
For Galvanized Fittings, Add	18.24	
23 21 13 23-0812 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	118.59	30.46
For Galvanized Fittings, Add	18.24	
23 21 13 23-0813 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	105.04	33.24
For Galvanized Fittings, Add	13.81	
23 21 13 23-0814 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	108.56	35.59
For Galvanized Fittings, Add	13.81	
23 21 13 23-0815 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	112.74	38.36
For Galvanized Fittings, Add	13.81	
23 21 13 23-0816 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	116.73	41.03
For Galvanized Fittings, Add	13.81	
23 21 13 23-0817 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	261.19	38.66
For Galvanized Fittings, Add	50.80	
23 21 13 23-0818 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	222.41	43.69
For Galvanized Fittings, Add	39.21	
23 21 13 23-0819 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	202.95	49.33
For Galvanized Fittings, Add	32.27	
23 21 13 23-0820 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	449.69	41.74
For Galvanized Fittings, Add	96.79	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0821 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	453.24 96.79	44.10
23 21 13 23-0822 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	356.60 71.59	46.87
23 21 13 23-0823 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	360.24 71.59	49.33
23 21 13 23-0824 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	263.51 46.40	52.00
23 21 13 23-0825 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	267.24 46.40	54.46
23 21 13 23-0826 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	226.78 35.19	57.43
23 21 13 23-0827 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	255.64 40.34	62.87
23 21 13 23-0828 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	311.92 55.95	58.77
23 21 13 23-0829 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	320.21 55.95	64.31
23 21 13 23-0830 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	359.26 63.65	69.85
23 21 13 23-0831 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	402.48 71.35	78.05
23 21 13 23-0832 Plain End Piping System, Bull Plugs (23 21 13 23-0714)		
23 21 13 23-0833 EA 1" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	210.54 60.39	6.15
23 21 13 23-0834 EA 1-1/2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	214.13 60.39	8.51
23 21 13 23-0835 EA 2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	218.18 60.39	11.28
23 21 13 23-0836 EA 2-1/2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	221.82 60.39	13.64
23 21 13 23-0837 EA 3" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	319.70 88.53	16.41
23 21 13 23-0838 EA 4" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	413.97 114.35	21.85
23 21 13 23-0839 EA 5" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	714.61 202.08	27.38
23 21 13 23-0840 EA 6" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	951.73 269.52	35.59
23 21 13 23-0841 EA 8" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	1,752.62 506.71	42.36
23 21 13 23-0842 EA 10" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	3,140.50 919.85	49.54
23 21 13 23-0843 EA 12" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	4,804.45 1,414.57	59.48
23 21 13 23-0844 Carbon Steel Piping Systems (23 21 13 23)		
23 21 13 23-0845 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0844) Note: ASTM A105		
23 21 13 23-0846 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0847 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	35.49	20.31
23 21 13 23-0848 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	39.85	22.67
23 21 13 23-0849 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	48.74	25.33
23 21 13 23-0850 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.05	28.72
23 21 13 23-0851 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	71.82	32.31
23 21 13 23-0852 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	95.84	41.13
23 21 13 23-0853 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	178.07	60.82
23 21 13 23-0854 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	249.66	80.00
23 21 13 23-0855 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	397.28	81.29
23 21 13 23-0856 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0857 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	37.74	20.31
23 21 13 23-0858 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	43.25	22.67
23 21 13 23-0859 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	49.78	25.33
23 21 13 23-0860 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	64.38	28.72
23 21 13 23-0861 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	74.99	32.31
23 21 13 23-0862 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	95.77	41.13
23 21 13 23-0863 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	197.48	60.82
23 21 13 23-0864 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	266.09	80.00
23 21 13 23-0865 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	390.17	81.29
23 21 13 23-0866 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0867 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	43.79	25.33
23 21 13 23-0868 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	52.20	29.23
23 21 13 23-0869 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	66.61	34.56
23 21 13 23-0870 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	85.74	41.13

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0871 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	103.46	49.03
23 21 13 23-0872 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	134.64	60.82
23 21 13 23-0873 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	224.60	80.00
23 21 13 23-0874 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	299.58	94.97
23 21 13 23-0875 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	523.05	102.63
23 21 13 23-0876 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0877 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	44.40	25.33
23 21 13 23-0878 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	52.84	29.23
23 21 13 23-0879 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	67.37	34.56
23 21 13 23-0880 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	87.54	41.13
23 21 13 23-0881 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	105.58	49.03
23 21 13 23-0882 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	137.89	60.82
23 21 13 23-0883 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	232.32	80.00
23 21 13 23-0884 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	310.69	94.97
23 21 13 23-0885 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	483.50	102.63
23 21 13 23-0886 Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0887 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	32.72	20.31
23 21 13 23-0888 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	36.78	22.67
23 21 13 23-0889 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	42.22	25.33
23 21 13 23-0890 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	48.35	28.72
23 21 13 23-0891 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	55.68	32.31
23 21 13 23-0892 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	72.08	41.13
23 21 13 23-0893 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB.....	117.54	60.82
23 21 13 23-0894 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	156.32	80.00
23 21 13 23-0895 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	194.37	81.29
23 21 13 23-0896 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0897 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	33.97	20.31
23 21 13 23-0898 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	38.16	22.67
23 21 13 23-0899 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	44.42	25.33
23 21 13 23-0900 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	51.01	28.72
23 21 13 23-0901 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	59.62	32.31
23 21 13 23-0902 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	76.30	41.13
23 21 13 23-0903 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	126.83	60.82
23 21 13 23-0904 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	175.01	80.00
23 21 13 23-0905 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	233.22	81.29
23 21 13 23-0906 Caps, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0907 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	17.93	9.54
23 21 13 23-0908 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	20.02	10.15
23 21 13 23-0909 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	23.37	11.69
23 21 13 23-0910 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	26.61	12.72
23 21 13 23-0911 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	29.41	12.72
23 21 13 23-0912 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	38.10	16.31
23 21 13 23-0913 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	62.40	20.31
23 21 13 23-0914 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	87.19	24.51
23 21 13 23-0915 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	120.40	27.82
23 21 13 23-0916 Black Cast Iron Square Head Plug (23 21 13 23-0845)		
23 21 13 23-0917 EA 1/2" Square Head Plug, Black, Cast Iron.....	12.91	8.10
23 21 13 23-0918 EA 3/4" Square Head Plug, Black, Cast Iron.....	14.10	8.10
23 21 13 23-0919 EA 1" Square Head Plug, Black, Cast Iron.....	20.60	12.30
23 21 13 23-0920 EA 1-1/4" Square Head Plug, Black, Cast Iron.....	20.84	12.30
23 21 13 23-0921 EA 1-1/2" Square Head Plug, Black, Cast Iron.....	21.83	12.30
23 21 13 23-0922 EA 2" Square Head Plug, Black, Cast Iron.....	28.98	16.31
23 21 13 23-0923 EA 2-1/2" Square Head Plug, Black, Cast Iron.....	36.88	20.31
23 21 13 23-0924 EA 3" Square Head Plug, Black, Cast Iron.....	47.17	24.51
23 21 13 23-0925 EA 4" Square Head Plug, Black, Cast Iron.....	53.99	27.82
23 21 13 23-0926 Unions, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0845)		
23 21 13 23-0927 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	51.05	25.33
23 21 13 23-0928 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	57.23	29.23
23 21 13 23-0929 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	71.39	34.56
23 21 13 23-0930 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	88.62	41.13
23 21 13 23-0931 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	106.51	49.03
23 21 13 23-0932 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	132.86	60.82
23 21 13 23-0933 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	205.84	66.05
23 21 13 23-0934 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	271.26	80.00
23 21 13 23-0935 Class 6,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0844)		
Note: ASTM A105		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0936 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0937 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	38.20	20.31
23 21 13 23-0938 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	42.95	22.67
23 21 13 23-0939 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	54.45	25.33
23 21 13 23-0940 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	73.69	28.72
23 21 13 23-0941 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	84.20	32.31
23 21 13 23-0942 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	114.03	41.13
23 21 13 23-0943 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	224.22	60.82
23 21 13 23-0944 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	318.55	80.00
23 21 13 23-0945 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	543.57	81.29
23 21 13 23-0946 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0947 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	41.90	20.31
23 21 13 23-0948 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	48.48	22.67
23 21 13 23-0949 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	56.46	25.33
23 21 13 23-0950 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	76.47	28.72
23 21 13 23-0951 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	89.99	32.31
23 21 13 23-0952 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	115.13	41.13
23 21 13 23-0953 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	257.68	60.82
23 21 13 23-0954 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	348.83	80.00
23 21 13 23-0955 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	542.11	81.29
23 21 13 23-0956 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0957 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	49.15	25.33
23 21 13 23-0958 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	59.96	29.23
23 21 13 23-0959 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	80.33	34.56
23 21 13 23-0960 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	108.11	41.13
23 21 13 23-0961 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	131.20	49.03
23 21 13 23-0962 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	174.90	60.82
23 21 13 23-0963 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	321.52	80.00
23 21 13 23-0964 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	445.11	94.97
23 21 13 23-0965 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	864.96	102.63
23 21 13 23-0966 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0967 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	44.40	25.33
23 21 13 23-0968 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	52.84	29.23
23 21 13 23-0969 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	67.37	34.56
23 21 13 23-0970 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	87.54	41.13
23 21 13 23-0971 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	105.58	49.03
23 21 13 23-0972 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	137.89	60.82
23 21 13 23-0973 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	232.32	80.00
23 21 13 23-0974 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	310.69	94.97
23 21 13 23-0975 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	483.50	102.63
23 21 13 23-0976 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0977 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	33.85	20.31
23 21 13 23-0978 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	38.11	22.67
23 21 13 23-0979 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	44.27	25.33
23 21 13 23-0980 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	50.93	28.72
23 21 13 23-0981 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	59.15	32.31
23 21 13 23-0982 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	77.15	41.13
23 21 13 23-0983 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	130.30	60.82
23 21 13 23-0984 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	173.91	80.00
23 21 13 23-0985 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	229.46	81.29
23 21 13 23-0986 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0987 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	35.70	20.31
23 21 13 23-0988 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	40.14	22.67
23 21 13 23-0989 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	47.51	25.33
23 21 13 23-0990 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	54.84	28.72
23 21 13 23-0991 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	64.96	32.31
23 21 13 23-0992 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	83.35	41.13
23 21 13 23-0993 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	143.95	60.82
23 21 13 23-0994 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	201.43	80.00
23 21 13 23-0995 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	286.69	81.29
23 21 13 23-0996 Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-0997 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	20.41	9.54
23 21 13 23-0998 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	23.26	10.15
23 21 13 23-0999 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	27.29	11.69
23 21 13 23-1000 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	31.73	12.72
23 21 13 23-1001 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	36.40	12.72
23 21 13 23-1002 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	47.22	16.31

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1003 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	83.88	20.31
23 21 13 23-1004 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	121.03	24.51
23 21 13 23-1005 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	173.16	27.82
23 21 13 23-1006 Black Cast Iron Square Head Plug (23 21 13 23-0935)		
23 21 13 23-1007 EA 1/2" Square Head Plug, Black Cast Iron.....	12.91	8.10
23 21 13 23-1008 EA 3/4" Square Head Plug, Black Cast Iron.....	14.11	8.10
23 21 13 23-1009 EA 1" Square Head Plug, Black Cast Iron.....	20.61	12.30
23 21 13 23-1010 EA 1-1/4" Square Head Plug, Black Cast Iron.....	20.85	12.30
23 21 13 23-1011 EA 1-1/2" Square Head Plug, Black Cast Iron.....	21.84	12.30
23 21 13 23-1012 EA 2" Square Head Plug, Black Cast Iron.....	29.00	16.31
23 21 13 23-1013 EA 2-1/2" Square Head Plug, Black Cast Iron.....	36.91	20.31
23 21 13 23-1014 EA 3" Square Head Plug, Black Cast Iron.....	47.22	24.51
23 21 13 23-1015 EA 4" Square Head Plug, Black Cast Iron.....	54.05	27.82
23 21 13 23-1016 Unions, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-0935)		
23 21 13 23-1017 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	59.03	25.33
23 21 13 23-1018 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	65.43	29.23
23 21 13 23-1019 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	83.36	34.56
23 21 13 23-1020 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	105.15	41.13
23 21 13 23-1021 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	126.68	49.03
23 21 13 23-1022 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	158.36	60.82
23 21 13 23-1023 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	271.12	66.05
23 21 13 23-1024 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	363.79	80.00
23 21 13 23-1025 Carbon Steel Piping System (23 21 13 23-0844)		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
23 21 13 23-1026 Schedule 40 Carbon Steel Piping (23 21 13 23-1025)		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1027 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	7.25	3.79
For Schedule 80, Add	0.56	
23 21 13 23-1028 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	7.63	4.10
For Schedule 80, Add	0.51	
For Schedule 160, Add	2.13	
23 21 13 23-1029 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	8.35	4.41
For Schedule 80, Add	0.63	
For Schedule 160, Add	2.61	
23 21 13 23-1030 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40.....	8.96	4.83
For Schedule 80, Add	0.64	
For Schedule 160, Add	2.69	
23 21 13 23-1031 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	11.56	5.95
For Schedule 80, Add	0.95	
For Schedule 160, Add	3.96	
23 21 13 23-1032 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	14.28	7.18
For Schedule 80, Add	1.25	
For Schedule 160, Add	5.22	
23 21 13 23-1033 90 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1034 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	26.57	15.59
23 21 13 23-1035 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	31.76	18.26
23 21 13 23-1036 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	35.51	20.41
23 21 13 23-1037 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	40.36	22.77
23 21 13 23-1038 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	59.58	29.12
23 21 13 23-1039 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	75.56	37.03
23 21 13 23-1040 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	27.59	15.59
23 21 13 23-1041 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	32.15	18.26
23 21 13 23-1042 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	36.78	20.41
23 21 13 23-1043 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	43.12	22.77
23 21 13 23-1044 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	66.17	29.12
23 21 13 23-1045 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	82.84	37.03
23 21 13 23-1046 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	35.73	18.26
23 21 13 23-1047 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	41.29	20.41
23 21 13 23-1048 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	47.86	22.77
23 21 13 23-1049 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	79.49	29.12
23 21 13 23-1050 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	118.16	37.03
23 21 13 23-1051 45 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1052 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	28.82	15.59
23 21 13 23-1053 EA 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	32.59	18.26
23 21 13 23-1054 EA 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	36.58	20.41
23 21 13 23-1055 EA 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	41.18	22.77
23 21 13 23-1056 EA 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	56.95	29.12
23 21 13 23-1057 EA 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	79.62	37.03
23 21 13 23-1058 EA 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	28.99	15.59
23 21 13 23-1059 EA 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	33.53	18.26
23 21 13 23-1060 EA 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	37.66	20.41

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1061 EA 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	43.99	22.77
23 21 13 23-1062 EA 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	65.15	29.12
23 21 13 23-1063 EA 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	85.11	37.03
23 21 13 23-1064 EA 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	38.21	18.26
23 21 13 23-1065 EA 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	45.75	20.41
23 21 13 23-1066 EA 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	49.54	22.77
23 21 13 23-1067 EA 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	88.99	29.12
23 21 13 23-1068 EA 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	118.79	37.03
23 21 13 23-1069 Straight Tees, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1070 EA 1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	35.30	21.64
23 21 13 23-1071 EA 1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	39.91	22.77
23 21 13 23-1072 EA 3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	47.25	26.36
23 21 13 23-1073 EA 1" Tee, Straight, 2,000 LB, Screwed Carbon Steel	57.28	31.07
23 21 13 23-1074 EA 1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	88.60	44.10
23 21 13 23-1075 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	109.85	54.77
23 21 13 23-1076 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	36.18	21.64
23 21 13 23-1077 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	40.48	22.77
23 21 13 23-1078 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	49.16	26.36
23 21 13 23-1079 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel	58.92	31.07
23 21 13 23-1080 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	94.25	44.10
23 21 13 23-1081 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	119.20	54.77
23 21 13 23-1082 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	44.78	22.77
23 21 13 23-1083 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel	53.77	26.36
23 21 13 23-1084 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel	70.34	31.07
23 21 13 23-1085 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	107.22	44.10
23 21 13 23-1086 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	160.56	54.77
23 21 13 23-1087 Crosses, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1088 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel	51.00	27.38
23 21 13 23-1089 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel	59.44	30.77
23 21 13 23-1090 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel	63.70	32.82
23 21 13 23-1091 EA 1" Cross, 2,000 LB, Screwed Carbon Steel	78.27	39.59
23 21 13 23-1092 EA 1-1/2" Cross, 2,000 LB, Screwed Carbon Steel	128.54	55.38
23 21 13 23-1093 EA 2" Cross, 2,000 LB, Screwed Carbon Steel	164.16	68.41
23 21 13 23-1094 EA 1/2" Cross, 3,000 LB, Screwed Carbon Steel	60.51	30.77
23 21 13 23-1095 EA 3/4" Cross, 3,000 LB, Screwed Carbon Steel	69.88	32.82
23 21 13 23-1096 EA 1" Cross, 3,000 LB, Screwed Carbon Steel	83.67	39.59
23 21 13 23-1097 EA 1-1/2" Cross, 3,000 LB, Screwed Carbon Steel	136.33	55.38
23 21 13 23-1098 EA 2" Cross, 3,000 LB, Screwed Carbon Steel	178.40	68.41
23 21 13 23-1099 EA 1/2" Cross, 6,000 LB, Screwed Carbon Steel	80.63	30.77
23 21 13 23-1100 EA 3/4" Cross, 6,000 LB, Screwed Carbon Steel	124.79	32.82
23 21 13 23-1101 EA 1" Cross, 6,000 LB, Screwed Carbon Steel	168.30	39.59
23 21 13 23-1102 EA 1-1/2" Cross, 6,000 LB, Screwed Carbon Steel	262.17	55.38
23 21 13 23-1103 EA 2" Cross, 6,000 LB, Screwed Carbon Steel	291.55	68.41
23 21 13 23-1104 Straight Couplings, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1105 EA 1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	25.36	15.59
23 21 13 23-1106 EA 1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	29.13	18.26
23 21 13 23-1107 EA 3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	33.07	20.41
23 21 13 23-1108 EA 1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	37.89	22.77
23 21 13 23-1109 EA 1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	52.94	29.12
23 21 13 23-1110 EA 2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	67.22	37.03
23 21 13 23-1111 EA 1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	27.94	15.59
23 21 13 23-1112 EA 1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	30.77	18.26
23 21 13 23-1113 EA 3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	34.32	20.41
23 21 13 23-1114 EA 1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	39.56	22.77
23 21 13 23-1115 EA 1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	55.50	29.12
23 21 13 23-1116 EA 2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	76.54	37.03
23 21 13 23-1117 Reducing Couplings, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1118 EA 1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	25.72	16.62
23 21 13 23-1119 EA 1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	29.98	18.26
23 21 13 23-1120 EA 3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	34.36	20.41
23 21 13 23-1121 EA 1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	39.68	22.77
23 21 13 23-1122 EA 1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	53.41	29.12
23 21 13 23-1123 EA 2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	69.73	37.03
23 21 13 23-1124 EA 1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	63.00	18.26
23 21 13 23-1125 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	66.26	20.41
23 21 13 23-1126 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	76.87	22.77
23 21 13 23-1127 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	108.42	29.12
23 21 13 23-1128 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	152.99	37.03
23 21 13 23-1129 Caps, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1130 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel	7.22	3.79

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1131 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	8.05	4.30
23 21 13 23-1132 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel.....	9.63	4.93
23 21 13 23-1133 EA 1" Cap, 3,000 LB, Screwed Carbon Steel.....	12.07	5.74
23 21 13 23-1134 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	15.89	6.88
23 21 13 23-1135 EA 2" Cap, 3,000 LB, Screwed Carbon Steel.....	21.60	8.51
23 21 13 23-1136 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel.....	10.31	3.79
23 21 13 23-1137 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	10.04	4.30
23 21 13 23-1138 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel.....	12.86	4.93
23 21 13 23-1139 EA 1" Cap, 6,000 LB, Screwed Carbon Steel.....	14.43	5.74
23 21 13 23-1140 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	25.51	6.88
23 21 13 23-1141 EA 2" Cap, 6,000 LB, Screwed Carbon Steel.....	30.96	8.51
23 21 13 23-1142 Nipples, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1143 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel.....	15.50	9.33
23 21 13 23-1144 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel.....	15.82	9.74
23 21 13 23-1145 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel.....	15.75	9.74
23 21 13 23-1146 EA 1" Nipple, 2" Long, Screwed Carbon Steel.....	17.35	10.57
23 21 13 23-1147 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel.....	19.45	11.38
23 21 13 23-1148 EA 2" Nipple, 2" Long, Screwed Carbon Steel.....	23.84	14.67
23 21 13 23-1149 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel.....	16.09	9.33
23 21 13 23-1150 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel.....	16.29	9.74
23 21 13 23-1151 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel.....	16.28	9.74
23 21 13 23-1152 EA 1" Nipple, 4" Long, Screwed Carbon Steel.....	18.06	10.57
23 21 13 23-1153 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel.....	20.73	11.38
23 21 13 23-1154 EA 2" Nipple, 4" Long, Screwed Carbon Steel.....	25.71	14.67
23 21 13 23-1155 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel.....	17.51	9.33
23 21 13 23-1156 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel.....	17.04	9.74
23 21 13 23-1157 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel.....	17.11	9.74
23 21 13 23-1158 EA 1" Nipple, 6" Long, Screwed Carbon Steel.....	19.09	10.57
23 21 13 23-1159 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel.....	22.47	11.38
23 21 13 23-1160 EA 2" Nipple, 6" Long, Screwed Carbon Steel.....	27.25	14.67
23 21 13 23-1161 Unions, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1162 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel.....	32.86	22.67
23 21 13 23-1163 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel.....	35.20	22.77
23 21 13 23-1164 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel.....	40.49	26.36
23 21 13 23-1165 EA 1" Union, 3,000 LB, Screwed Carbon Steel.....	48.14	31.07
23 21 13 23-1166 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel.....	68.72	44.10
23 21 13 23-1167 EA 2" Union, 3,000 LB, Screwed Carbon Steel.....	85.28	54.77
23 21 13 23-1168 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel.....	46.56	22.67
23 21 13 23-1169 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel.....	51.76	22.77
23 21 13 23-1170 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel.....	60.54	26.36
23 21 13 23-1171 EA 1" Union, 6,000 LB, Screwed Carbon Steel.....	72.85	31.07
23 21 13 23-1172 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel.....	119.26	44.10
23 21 13 23-1173 EA 2" Union, 6,000 LB, Screwed Carbon Steel.....	147.47	54.77
23 21 13 23-1174 Weld Neck Flanges, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1175 EA 1/2" Flange, 150 LB, Screwed Carbon Steel.....	70.84	42.36
23 21 13 23-1176 EA 3/4" Flange, 150 LB, Screwed Carbon Steel.....	74.15	44.41
23 21 13 23-1177 EA 1" Flange, 150 LB, Screwed Carbon Steel.....	77.05	46.35
23 21 13 23-1178 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel.....	86.07	52.21
23 21 13 23-1179 EA 2" Flange, 150 LB, Screwed Carbon Steel.....	89.49	54.46
23 21 13 23-1180 EA 1/2" Flange, 300 LB, Screwed Carbon Steel.....	71.31	42.36
For Ring Type Joint, Add	7.75	
For Blind Flange, Deduct	-26.97	
23 21 13 23-1181 EA 3/4" Flange, 300 LB, Screwed Carbon Steel.....	74.64	44.41
For Ring Type Joint, Add	8.01	
For Blind Flange, Deduct	-28.25	
23 21 13 23-1182 EA 1" Flange, 300 LB, Screwed Carbon Steel.....	77.79	46.35
For Ring Type Joint, Add	8.26	
For Blind Flange, Deduct	-29.46	
23 21 13 23-1183 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel.....	87.85	52.21
For Ring Type Joint, Add	9.56	
For Blind Flange, Deduct	-33.23	
23 21 13 23-1184 EA 2" Flange, 300 LB, Screwed Carbon Steel.....	91.27	54.46
For Ring Type Joint, Add	9.56	
For Blind Flange, Deduct	-34.60	
23 21 13 23-1185 EA 1/2" Flange, 600 LB, Screwed Carbon Steel.....	74.35	42.36
For Ring Type Joint, Add	10.79	
For Blind Flange, Deduct	-27.58	
23 21 13 23-1186 EA 3/4" Flange, 600 LB, Screwed Carbon Steel.....	77.42	44.41
For Ring Type Joint, Add	10.79	
For Blind Flange, Deduct	-28.81	
23 21 13 23-1187 EA 1" Flange, 600 LB, Screwed Carbon Steel.....	80.82	46.35
For Ring Type Joint, Add	11.29	
For Blind Flange, Deduct	-30.07	
23 21 13 23-1188 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel.....	91.59	52.21
For Ring Type Joint, Add	13.30	
For Blind Flange, Deduct	-33.98	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1189 EA 2" Flange, 600 LB, Screwed Carbon Steel..... <i>For Ring Type Joint, Add</i> <i>For Blind Flange, Deduct</i>	94.09 12.38 -35.16	54.46
23 21 13 23-1190 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1191 EA 1/4" Square Head Plug, Screwed Carbon Steel.....	4.97	2.88
23 21 13 23-1192 EA 1/2" Square Head Plug, Screwed Carbon Steel.....	5.96	3.39
23 21 13 23-1193 EA 3/4" Square Head Plug, Screwed Carbon Steel.....	6.87	3.90
23 21 13 23-1194 EA 1" Square Head Plug, Screwed Carbon Steel.....	10.02	5.74
23 21 13 23-1195 EA 1-1/2" Square Head Plug, Screwed Carbon Steel.....	11.82	5.74
23 21 13 23-1196 EA 2" Square Head Plug, Screwed Carbon Steel.....	16.59	7.49
23 21 13 23-1197 Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1198 EA 1/4" Hex Head Plug, Screwed Carbon Steel.....	4.79	2.88
23 21 13 23-1199 EA 1/2" Hex Head Plug, Screwed Carbon Steel.....	5.79	3.39
23 21 13 23-1200 EA 3/4" Hex Head Plug, Screwed Carbon Steel.....	6.76	3.90
23 21 13 23-1201 EA 1" Hex Head Plug, Screwed Carbon Steel.....	9.92	5.74
23 21 13 23-1202 EA 1-1/2" Hex Head Plug, Screwed Carbon Steel.....	11.42	5.74
23 21 13 23-1203 EA 2" Hex Head Plug, Screwed Carbon Steel.....	16.88	7.49
23 21 13 23-1204 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1205 EA 1/4" Round Head Plug, Screwed Carbon Steel.....	5.37	2.88
23 21 13 23-1206 EA 1/2" Round Head Plug, Screwed Carbon Steel.....	5.98	3.39
23 21 13 23-1207 EA 3/4" Round Head Plug, Screwed Carbon Steel.....	6.79	3.90
23 21 13 23-1208 EA 1" Round Head Plug, Screwed Carbon Steel.....	10.08	5.74
23 21 13 23-1209 EA 1-1/2" Round Head Plug, Screwed Carbon Steel.....	12.31	5.74
23 21 13 23-1210 EA 2" Round Head Plug, Screwed Carbon Steel.....	16.77	7.49
23 21 13 23-1211 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1212 EA 1/4" Hex Bushing, Screwed Carbon Steel.....	4.92	2.88
23 21 13 23-1213 EA 1/2" Hex Bushing, Screwed Carbon Steel.....	5.78	3.39
23 21 13 23-1214 EA 3/4" Hex Bushing, Screwed Carbon Steel.....	6.71	3.90
23 21 13 23-1215 EA 1" Hex Bushing, Screwed Carbon Steel.....	10.05	5.74
23 21 13 23-1216 EA 1-1/2" Hex Bushing, Screwed Carbon Steel.....	11.39	5.74
23 21 13 23-1217 EA 2" Hex Bushing, Screwed Carbon Steel.....	16.46	7.49
23 21 13 23-1218 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1025)		
23 21 13 23-1219 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	29.84	15.59
23 21 13 23-1220 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	34.34	18.26
23 21 13 23-1221 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	39.59	20.41
23 21 13 23-1222 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	45.68	22.77
23 21 13 23-1223 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	68.23	29.12
23 21 13 23-1224 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	90.56	37.03
23 21 13 23-1225 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	43.70	18.26
23 21 13 23-1226 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	58.63	20.41
23 21 13 23-1227 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	77.53	22.77
23 21 13 23-1228 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	155.84	29.12
23 21 13 23-1229 Screwed Carbon Steel Laterals (23 21 13 23-1025)		
23 21 13 23-1230 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	98.67	22.77
23 21 13 23-1231 EA 3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	117.94	26.36
23 21 13 23-1232 EA 1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	143.62	31.07
23 21 13 23-1233 EA 1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	187.28	44.10
23 21 13 23-1234 EA 2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	233.44	54.77
23 21 13 23-1235 EA 1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	120.53	22.77
23 21 13 23-1236 EA 3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	150.46	26.36
23 21 13 23-1237 EA 1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	178.39	31.07
23 21 13 23-1238 EA 1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	251.20	44.10
23 21 13 23-1239 Grooved-Joint Pipe (23 21 13 23)		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
23 21 13 23-1240 Schedule 10 Black Grooved Pipe (23 21 13 23-1239)		
23 21 13 23-1241 LF 2" Black Schedule 10 Grooved Pipe.....	23.18	13.03
23 21 13 23-1242 LF 2-1/2" Black Schedule 10 Grooved Pipe.....	31.58	17.84
23 21 13 23-1243 LF 3" Black Schedule 10 Grooved Pipe.....	35.24	19.79
23 21 13 23-1244 LF 3-1/2" Black Schedule 10 Grooved Pipe.....	37.91	20.51
23 21 13 23-1245 LF 4" Black Schedule 10 Grooved Pipe.....	40.62	22.26
23 21 13 23-1246 LF 5" Black Schedule 10 Grooved Pipe.....	53.64	27.28
23 21 13 23-1247 LF 6" Black Schedule 10 Grooved Pipe.....	72.40	38.76
23 21 13 23-1248 LF 8" Black Schedule 10 Grooved Pipe.....	90.44	43.49
23 21 13 23-1249 LF 10" Black Schedule 10 Grooved Pipe.....	111.52	52.41
23 21 13 23-1250 LF 12" Black Schedule 10 Grooved Pipe.....	127.71	59.38

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1251 Schedule 40 Black Grooved Pipe (23 21 13 23-1239)		
23 21 13 23-1252 LF 3/4" Black Schedule 40 Grooved Pipe.....	13.97	7.90
23 21 13 23-1253 LF 1" Black Schedule 40 Grooved Pipe.....	15.77	8.93
23 21 13 23-1254 LF 1-1/4" Black Schedule 40 Grooved Pipe.....	17.53	9.64
23 21 13 23-1255 LF 1-1/2" Black Schedule 40 Grooved Pipe.....	19.94	10.98
23 21 13 23-1256 LF 2" Black Schedule 40 Grooved Pipe.....	25.28	13.95
23 21 13 23-1257 LF 2-1/2" Black Schedule 40 Grooved Pipe.....	34.88	19.08
23 21 13 23-1258 LF 3" Black Schedule 40 Grooved Pipe.....	40.48	21.74
23 21 13 23-1259 LF 4" Black Schedule 40 Grooved Pipe.....	47.41	24.21
23 21 13 23-1260 LF 5" Black Schedule 40 Grooved Pipe.....	61.80	29.44
23 21 13 23-1261 LF 6" Black Schedule 40 Grooved Pipe.....	85.65	42.46
23 21 13 23-1262 LF 8" Black Schedule 40 Grooved Pipe.....	106.40	48.10
23 21 13 23-1263 LF 10" Black Schedule 40 Grooved Pipe.....	138.69	57.43
23 21 13 23-1264 LF 12" Black Schedule 40 Grooved Pipe.....	161.85	65.95
23 21 13 23-1265 LF 14" Black Schedule 40 Grooved Pipe.....	215.40	89.13
23 21 13 23-1266 LF 16" Black Schedule 40 Grooved Pipe.....	251.19	104.82
23 21 13 23-1267 LF 18" Black Schedule 40 Grooved Pipe.....	309.30	127.28
23 21 13 23-1268 LF 20" Black Schedule 40 Grooved Pipe.....	358.19	148.41
23 21 13 23-1269 LF 24" Black Schedule 40 Grooved Pipe.....	454.03	178.15
23 21 13 23-1270 Schedule 80 Black Grooved Pipe (23 21 13 23-1239)		
23 21 13 23-1271 LF 3/4" Black Schedule 80 Grooved Pipe.....	15.29	8.62
23 21 13 23-1272 LF 1" Black Schedule 80 Grooved Pipe.....	16.63	9.13
23 21 13 23-1273 LF 1-1/4" Black Schedule 80 Grooved Pipe.....	18.99	10.15
23 21 13 23-1274 LF 1-1/2" Black Schedule 80 Grooved Pipe.....	21.48	11.38
23 21 13 23-1275 LF 2" Black Schedule 80 Grooved Pipe.....	27.74	14.67
23 21 13 23-1276 LF 2-1/2" Black Schedule 80 Grooved Pipe.....	38.59	20.21
23 21 13 23-1277 LF 3" Black Schedule 80 Grooved Pipe.....	44.80	22.67
23 21 13 23-1278 LF 4" Black Schedule 80 Grooved Pipe.....	52.93	24.72
23 21 13 23-1279 LF 5" Black Schedule 80 Grooved Pipe.....	74.86	31.07
23 21 13 23-1280 LF 6" Black Schedule 80 Grooved Pipe.....	101.04	44.51
23 21 13 23-1281 LF 8" Black Schedule 80 Grooved Pipe.....	137.11	50.87
23 21 13 23-1282 LF 10" Black Schedule 80 Grooved Pipe.....	168.93	61.43
23 21 13 23-1283 LF 12" Black Schedule 80 Grooved Pipe.....	186.46	74.25
23 21 13 23-1284 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1239)		
23 21 13 23-1285 LF 3/4" Galvanized Schedule 40 Grooved Pipe.....	14.61	7.90
23 21 13 23-1286 LF 1" Galvanized Schedule 40 Grooved Pipe.....	16.74	8.93
23 21 13 23-1287 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe.....	18.46	9.64
23 21 13 23-1288 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe.....	21.01	10.98
23 21 13 23-1289 LF 2" Galvanized Schedule 40 Grooved Pipe.....	26.65	13.95
23 21 13 23-1290 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe.....	36.97	19.08
23 21 13 23-1291 LF 3" Galvanized Schedule 40 Grooved Pipe.....	43.20	21.74
23 21 13 23-1292 LF 4" Galvanized Schedule 40 Grooved Pipe.....	51.25	24.21
23 21 13 23-1293 LF 5" Galvanized Schedule 40 Grooved Pipe.....	68.50	29.44
23 21 13 23-1294 LF 6" Galvanized Schedule 40 Grooved Pipe.....	94.47	42.46
23 21 13 23-1295 LF 8" Galvanized Schedule 40 Grooved Pipe.....	119.16	48.10
23 21 13 23-1296 LF 10" Galvanized Schedule 40 Grooved Pipe.....	159.96	57.43
23 21 13 23-1297 LF 12" Galvanized Schedule 40 Grooved Pipe.....	187.49	65.95
23 21 13 23-1298 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1239)		
23 21 13 23-1299 LF 3/4" Galvanized Schedule 80 Grooved Pipe.....	15.80	8.62
23 21 13 23-1300 LF 1" Galvanized Schedule 80 Grooved Pipe.....	19.01	9.13
23 21 13 23-1301 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe.....	19.92	10.15
23 21 13 23-1302 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe.....	25.18	12.10
23 21 13 23-1303 LF 2" Galvanized Schedule 80 Grooved Pipe.....	29.22	14.67
23 21 13 23-1304 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe.....	40.86	20.21
23 21 13 23-1305 LF 3" Galvanized Schedule 80 Grooved Pipe.....	47.93	22.67
23 21 13 23-1306 LF 4" Galvanized Schedule 80 Grooved Pipe.....	57.42	24.72
23 21 13 23-1307 LF 5" Galvanized Schedule 80 Grooved Pipe.....	81.72	31.07
23 21 13 23-1308 LF 6" Galvanized Schedule 80 Grooved Pipe.....	109.14	44.51
23 21 13 23-1309 LF 8" Galvanized Schedule 80 Grooved Pipe.....	151.11	50.87
23 21 13 23-1310 LF 10" Galvanized Schedule 80 Grooved Pipe.....	180.50	61.43
23 21 13 23-1311 LF 12" Galvanized Schedule 80 Grooved Pipe.....	203.35	74.25
23 21 13 23-1312 Painted Grooved-Joint Pipe Fittings (23 21 13 23)		
Note: Couplings are not included with fittings.		
23 21 13 23-1313 Grooved Elbows (23 21 13 23-1312)		
23 21 13 23-1314 90 Degree Grooved Elbows (23 21 13 23-1313)		
Note: Victaulic No. 10		
23 21 13 23-1315 EA 3/4" 90 Degree Elbow, Ductile Iron, Grooved.....	49.74	11.18
For Galvanized Fittings, Add		10.88

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1316 EA 1" 90 Degree Elbow, Ductile Iron, Grooved	49.74	11.18
For Galvanized Fittings, Add	10.88	
23 21 13 23-1317 EA 1-1/4" 90 Degree Elbow, Ductile Iron, Grooved	53.93	13.95
For Galvanized Fittings, Add	10.88	
23 21 13 23-1318 EA 1-1/2" 90 degree Elbow, Ductile Iron, Grooved	58.37	16.92
For Galvanized Fittings, Add	10.88	
23 21 13 23-1319 EA 2" 90 Degree Elbow, Ductile Iron, Grooved	66.50	22.36
For Galvanized Fittings, Add	10.88	
23 21 13 23-1320 EA 2-1/2" 90 Degree Elbow, Ductile Iron, Grooved	73.81	27.28
For Galvanized Fittings, Add	10.88	
23 21 13 23-1321 EA 3" 90 Degree Elbow, Ductile Iron, Grooved	108.08	33.02
For Galvanized Fittings, Add	19.33	
23 21 13 23-1322 EA 4" 90 Degree Elbow, Ductile Iron, Grooved	129.14	43.59
For Galvanized Fittings, Add	21.06	
23 21 13 23-1323 EA 5" 90 Degree Elbow, Ductile Iron, Grooved	237.00	54.46
For Galvanized Fittings, Add	51.26	
23 21 13 23-1324 EA 6" 90 Degree Elbow, Ductile Iron, Grooved	287.36	71.29
For Galvanized Fittings, Add	59.57	
23 21 13 23-1325 EA 8" 90 Degree Elbow, Ductile Iron, Grooved	507.15	84.82
For Galvanized Fittings, Add	125.39	
23 21 13 23-1326 EA 10" 90 Degree Elbow, Ductile Iron, Grooved	740.37	98.97
For Galvanized Fittings, Add	195.36	
23 21 13 23-1327 EA 12" 90 Degree Elbow, Ductile Iron, Grooved	1,126.92	118.77
For Galvanized Fittings, Add	313.12	
23 21 13 23-1328 EA 14" 90 Degree Elbow, Steel, Grooved	2,174.31	134.05
For Galvanized Fittings, Add	651.19	
23 21 13 23-1329 EA 16" 90 Degree Elbow, Steel, Grooved	2,804.62	148.41
For Galvanized Fittings, Add	852.08	
23 21 13 23-1330 EA 18" 90 Degree Elbow, Steel, Grooved	3,517.88	162.15
For Galvanized Fittings, Add	1,080.69	
23 21 13 23-1331 EA 20" 90 Degree Elbow, Steel, Grooved	4,556.30	168.61
For Galvanized Fittings, Add	1,420.14	
23 21 13 23-1332 EA 24" 90 Degree Elbow, Steel, Grooved	6,491.60	199.38
For Galvanized Fittings, Add	2,043.61	

23 21 13 23-1333 45 Degree Grooved Elbows (23 21 13 23-1313)

Note: Victaulic No. 11

23 21 13 23-1334 EA 3/4" 45 Degree Elbow, Ductile Iron, Grooved	49.72	11.18
For Galvanized Fittings, Add	7.91	
23 21 13 23-1335 EA 1" 45 Degree Elbow, Ductile Iron, Grooved	49.72	11.18
For Galvanized Fittings, Add	7.91	
23 21 13 23-1336 EA 1-1/4" 45 Degree Elbow, Ductile Iron, Grooved	53.91	13.95
For Galvanized Fittings, Add	7.91	
23 21 13 23-1337 EA 1-1/2" 45 degree Elbow, Ductile Iron, Grooved	58.35	16.92
For Galvanized Fittings, Add	7.91	
23 21 13 23-1338 EA 2" 45 Degree Elbow, Ductile Iron, Grooved	66.48	22.36
For Galvanized Fittings, Add	7.91	
23 21 13 23-1339 EA 2-1/2" 45 Degree Elbow, Ductile Iron, Grooved	73.79	27.28
For Galvanized Fittings, Add	7.91	
23 21 13 23-1340 EA 3" 45 Degree Elbow, Ductile Iron, Grooved	108.06	33.02
For Galvanized Fittings, Add	14.06	
23 21 13 23-1341 EA 4" 45 Degree Elbow, Ductile Iron, Grooved	129.14	43.59
For Galvanized Fittings, Add	15.32	
23 21 13 23-1342 EA 5" 45 Degree Elbow, Ductile Iron, Grooved	237.00	54.46
For Galvanized Fittings, Add	37.28	
23 21 13 23-1343 EA 6" 45 Degree Elbow, Ductile Iron, Grooved	287.36	71.29
For Galvanized Fittings, Add	43.33	
23 21 13 23-1344 EA 8" 45 Degree Elbow, Ductile Iron, Grooved	507.15	84.82
For Galvanized Fittings, Add	91.19	
23 21 13 23-1345 EA 10" 45 Degree Elbow, Ductile Iron, Grooved	740.37	98.97
For Galvanized Fittings, Add	142.08	
23 21 13 23-1346 EA 12" 45 Degree Elbow, Ductile Iron, Grooved	1,126.92	118.77
For Galvanized Fittings, Add	227.73	
23 21 13 23-1347 EA 14" 45 Degree Elbow, Steel, Grooved	2,174.31	134.05
For Galvanized Fittings, Add	473.59	
23 21 13 23-1348 EA 16" 45 Degree Elbow, Steel, Grooved	2,804.62	148.41
For Galvanized Fittings, Add	619.70	
23 21 13 23-1349 EA 18" 45 Degree Elbow, Steel, Grooved	3,517.88	162.15
For Galvanized Fittings, Add	785.96	
23 21 13 23-1350 EA 20" 45 Degree Elbow, Steel, Grooved	4,556.75	168.92
For Galvanized Fittings, Add	1,032.83	
23 21 13 23-1351 EA 24" 45 Degree Elbow, Steel, Grooved	6,491.60	199.38
For Galvanized Fittings, Add	1,486.26	

23 21 13 23-1352 22-1/2 Degree Grooved Elbows (23 21 13 23-1313)

Note: Victaulic No. 12

23 21 13 23-1353 EA 1" 22-1/2 Degree Elbow, Ductile Iron, Grooved	51.89	11.18
For Galvanized Fittings, Add	8.43	
23 21 13 23-1354 EA 1-1/4" 22-1/2 Degree Elbow, Ductile Iron, Grooved	56.08	13.95
For Galvanized Fittings, Add	8.43	
23 21 13 23-1355 EA 1-1/2" 22-1/2 Degree Elbow, Ductile Iron, Grooved	60.52	16.92
For Galvanized Fittings, Add	8.43	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1356 EA 2" 22-1/2 Degree Elbow, Ductile Iron, Grooved	68.65	22.36
For Galvanized Fittings, Add	8.43	
23 21 13 23-1357 EA 2-1/2" 22-1/2 Degree Elbow, Ductile Iron, Grooved	75.96	27.28
For Galvanized Fittings, Add	8.43	
23 21 13 23-1358 EA 3" 22-1/2 Degree Elbow, Ductile Iron, Grooved	100.87	33.02
For Galvanized Fittings, Add	12.33	
23 21 13 23-1359 EA 4" 22-1/2 Degree Elbow, Ductile Iron, Grooved	134.21	43.59
For Galvanized Fittings, Add	16.53	
23 21 13 23-1360 EA 5" 22-1/2 Degree Elbow, Steel, Grooved	295.31	54.46
For Galvanized Fittings, Add	51.28	
23 21 13 23-1361 EA 6" 22-1/2 Degree Elbow, Ductile Iron, Grooved	302.00	71.29
For Galvanized Fittings, Add	46.84	
23 21 13 23-1362 EA 8" 22-1/2 Degree Elbow, Ductile Iron, Grooved	535.56	84.82
For Galvanized Fittings, Add	98.01	
23 21 13 23-1363 EA 10" 22-1/2 Degree Elbow, Steel, Grooved	709.02	98.97
For Galvanized Fittings, Add	134.55	
23 21 13 23-1364 EA 12" 22-1/2 Degree Elbow, Steel, Grooved	935.99	118.77
For Galvanized Fittings, Add	181.90	
23 21 13 23-1365 EA 14" 22-1/2 Degree Elbow, Steel, Grooved	1,076.45	134.05
For Galvanized Fittings, Add	210.10	
23 21 13 23-1366 EA 16" 22-1/2 Degree Elbow, Steel, Grooved	1,272.51	148.41
For Galvanized Fittings, Add	251.99	
23 21 13 23-1367 EA 18" 22-1/2 Degree Elbow, Steel, Grooved	1,514.65	162.15
For Galvanized Fittings, Add	305.18	
23 21 13 23-1368 EA 20" 22-1/2 Degree Elbow, Steel, Grooved	1,756.21	168.61
For Galvanized Fittings, Add	360.80	
23 21 13 23-1369 EA 24" 22-1/2 Degree Elbow, Steel, Grooved	2,319.02	199.38
For Galvanized Fittings, Add	484.84	
23 21 13 23-1370 11-1/4 Degree Grooved Elbows (23 21 13 23-1313)		
Note: Victaulic No. 13		
23 21 13 23-1371 EA 1" 11-1/4 Degree Elbow, Ductile Iron, Grooved	51.89	11.18
For Galvanized Fittings, Add	8.43	
23 21 13 23-1372 EA 1-1/4" 11-1/4 Degree Elbow, Ductile Iron, Grooved	56.08	13.95
For Galvanized Fittings, Add	8.43	
23 21 13 23-1373 EA 1-1/2" 11-1/4 Degree Elbow, Ductile Iron, Grooved	60.52	16.92
For Galvanized Fittings, Add	8.43	
23 21 13 23-1374 EA 2" 11-1/4 Degree Elbow, Ductile Iron, Grooved	68.65	22.36
For Galvanized Fittings, Add	8.43	
23 21 13 23-1375 EA 2-1/2" 11-1/4 Degree Elbow, Ductile Iron, Grooved	75.96	27.28
For Galvanized Fittings, Add	8.43	
23 21 13 23-1376 EA 3" 11-1/4 Degree Elbow, Ductile Iron, Grooved	100.87	33.02
For Galvanized Fittings, Add	12.33	
23 21 13 23-1377 EA 4" 11-1/4 Degree Elbow, Ductile Iron, Grooved	134.21	43.59
For Galvanized Fittings, Add	16.53	
23 21 13 23-1378 EA 5" 11-1/4 Degree Elbow, Steel, Grooved	295.30	54.46
For Galvanized Fittings, Add	51.27	
23 21 13 23-1379 EA 6" 11-1/4 Degree Elbow, Ductile Iron, Grooved	301.99	71.29
For Galvanized Fittings, Add	46.84	
23 21 13 23-1380 EA 8" 11-1/4 Degree Elbow, Ductile Iron, Grooved	535.53	84.82
For Galvanized Fittings, Add	98.00	
23 21 13 23-1381 EA 10" 11-1/4 Degree Elbow, Steel, Grooved	708.99	98.97
For Galvanized Fittings, Add	134.55	
23 21 13 23-1382 EA 12" 11-1/4 Degree Elbow, Steel, Grooved	935.95	118.77
For Galvanized Fittings, Add	181.89	
23 21 13 23-1383 EA 14" 11-1/4 Degree Elbow, Steel, Grooved	1,076.42	134.05
For Galvanized Fittings, Add	210.09	
23 21 13 23-1384 EA 16" 11-1/4 Degree Elbow, Steel, Grooved	1,272.49	148.51
For Galvanized Fittings, Add	251.98	
23 21 13 23-1385 EA 18" 11-1/4 Degree Elbow, Steel, Grooved	1,514.55	162.15
For Galvanized Fittings, Add	305.16	
23 21 13 23-1386 EA 20" 11-1/4 Degree Elbow, Steel, Grooved	1,756.13	168.61
For Galvanized Fittings, Add	360.78	
23 21 13 23-1387 EA 24" 11-1/4 Degree Elbow, Steel, Grooved	2,318.91	199.38
For Galvanized Fittings, Add	484.82	
23 21 13 23-1388 90 Degree Grooved Long Radius Elbows (23 21 13 23-1313)		
Note: Victaulic No. 100		
23 21 13 23-1389 EA 2" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	108.92	22.36
For Galvanized Fittings, Add	18.10	
23 21 13 23-1390 EA 2-1/2" 90 Degree Long Radius Elbow, Steel, Grooved	259.62	27.28
For Galvanized Fittings, Add	52.51	
23 21 13 23-1391 EA 3" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	124.89	33.02
For Galvanized Fittings, Add	18.10	
23 21 13 23-1392 EA 4" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	178.27	43.59
For Galvanized Fittings, Add	27.11	
23 21 13 23-1393 EA 5" 90 Degree Long Radius Elbow, Steel Grooved	660.61	54.46
For Galvanized Fittings, Add	138.95	
23 21 13 23-1394 EA 6" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	437.26	71.29
For Galvanized Fittings, Add	79.30	
23 21 13 23-1395 EA 8" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	919.78	84.82
For Galvanized Fittings, Add	190.22	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1396	EA	10" 90 Degree Long Radius Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	1,791.75 394.41	98.97
23 21 13 23-1397	EA	12" 90 Degree Long Radius Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	2,137.78 470.33	118.77
23 21 13 23-1398 Grooved Tees, Wyes And Crosses (23 21 13 23-1312)				
23 21 13 23-1399 Grooved Tees (23 21 13 23-1398)				
Note: Victaulic No. 20				
23 21 13 23-1400	EA	3/4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	72.45 15.12	14.67
23 21 13 23-1401	EA	1" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	75.79 15.12	16.92
23 21 13 23-1402	EA	1-1/4" Tee, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	81.43 15.12	20.72
23 21 13 23-1403	EA	1-1/2" Tee, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	88.49 15.12	25.43
23 21 13 23-1404	EA	2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	99.69 15.12	32.92
23 21 13 23-1405	EA	2-1/2" Tee, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	110.89 15.12	40.30
23 21 13 23-1406	EA	3" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	144.83 21.18	49.54
23 21 13 23-1407	EA	4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	204.36 32.49	64.10
23 21 13 23-1408	EA	5" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	379.71 76.22	83.79
23 21 13 23-1409	EA	6" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	450.75 88.09	104.82
23 21 13 23-1410	EA	8" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	832.22 192.43	127.28
23 21 13 23-1411	EA	10" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,367.99 343.63	148.41
23 21 13 23-1412	EA	12" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,870.68 481.08	178.15
23 21 13 23-1413	EA	14" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,046.13 524.81	197.94
23 21 13 23-1414	EA	16" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,526.83 668.51	199.07
23 21 13 23-1415	EA	18" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,119.85 837.20	219.59
23 21 13 23-1416	EA	20" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,332.94 1,199.57	223.08
23 21 13 23-1417	EA	24" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,554.52 1,843.09	274.04
23 21 13 23-1418 Grooved Wyes (90 Degree True Wye) (23 21 13 23-1398)				
Note: Victaulic No. 33				
23 21 13 23-1419	EA	1" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	238.04 34.02	16.92
23 21 13 23-1420	EA	1-1/4" Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	243.68 34.02	20.72
23 21 13 23-1421	EA	1-1/2" Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	250.74 34.02	25.43
23 21 13 23-1422	EA	2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	261.94 34.02	32.92
23 21 13 23-1423	EA	2-1/2" Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	273.14 34.02	40.30
23 21 13 23-1424	EA	3" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	328.42 40.67	49.54
23 21 13 23-1425	EA	4" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	429.01 53.27	64.10
23 21 13 23-1426	EA	5" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	602.85 76.36	83.79
23 21 13 23-1427	EA	6" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	747.56 94.47	104.82
23 21 13 23-1428	EA	8" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,041.20 136.07	127.28
23 21 13 23-1429	EA	10" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,690.38 234.85	148.41
23 21 13 23-1430	EA	12" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,888.67 259.45	178.15
23 21 13 23-1431	EA	14" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,148.43 296.27	197.94
23 21 13 23-1432	EA	16" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,703.23 384.81	198.87
23 21 13 23-1433	EA	18" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,080.69 440.18	219.79
23 21 13 23-1434	EA	20" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,323.93 638.41	222.66
23 21 13 23-1435	EA	24" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,614.34 992.55	274.04

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1436 Grooved Crosses (23 21 13 23-1398) Note: Victaulic No. 35		
23 21 13 23-1437 EA 3/4" Cross, Steel, Grooved For Galvanized Fittings, Add	170.74 20.65	22.05
23 21 13 23-1438 EA 1" Cross, Steel, Grooved For Galvanized Fittings, Add	175.76 20.65	25.43
23 21 13 23-1439 EA 1-1/4" Cross, Steel, Grooved For Galvanized Fittings, Add	212.72 24.92	31.07
23 21 13 23-1440 EA 1-1/2" Cross, Steel, Grooved For Galvanized Fittings, Add	236.18 26.86	38.15
23 21 13 23-1441 EA 2" Cross, Steel, Grooved For Galvanized Fittings, Add	175.13 15.18	49.33
23 21 13 23-1442 EA 2-1/2" Cross, Steel, Grooved For Galvanized Fittings, Add	191.92 15.18	60.51
23 21 13 23-1443 EA 3" Cross, Steel, Grooved For Galvanized Fittings, Add	293.17 27.27	74.25
23 21 13 23-1444 EA 4" Cross, Steel, Grooved For Galvanized Fittings, Add	446.78 45.40	96.10
23 21 13 23-1445 EA 5" Cross, Steel, Grooved For Galvanized Fittings, Add	806.76 92.75	125.64
23 21 13 23-1446 EA 6" Cross, Steel, Grooved For Galvanized Fittings, Add	1,031.22 119.33	157.23
23 21 13 23-1447 EA 8" Cross, Steel, Grooved For Galvanized Fittings, Add	1,333.90 157.16	190.87
23 21 13 23-1448 EA 10" Cross, Steel, Grooved For Galvanized Fittings, Add	2,120.83 268.05	222.66
23 21 13 23-1449 EA 12" Cross, Steel, Grooved For Galvanized Fittings, Add	2,979.37 386.81	267.28
23 21 13 23-1450 EA 14" Cross, Steel, Grooved For Galvanized Fittings, Add	3,116.86 400.76	296.91
23 21 13 23-1451 EA 16" Cross, Steel, Grooved For Galvanized Fittings, Add	3,942.74 524.25	298.66
23 21 13 23-1452 EA 18" Cross, Steel, Grooved For Galvanized Fittings, Add	4,777.82 642.61	329.33
23 21 13 23-1453 EA 20" Cross, Steel, Grooved For Galvanized Fittings, Add	6,570.80 910.40	334.45
23 21 13 23-1454 EA 24" Cross, Steel, Grooved For Galvanized Fittings, Add	9,986.05 1,405.45	411.07
23 21 13 23-1455 Grooved Reducing Tees (23 21 13 23-1398) Note: Victaulic No. 25		
23 21 13 23-1456 EA 1" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	122.63 19.45	16.92
23 21 13 23-1457 EA 1-1/4" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	131.33 20.06	20.72
23 21 13 23-1458 EA 1-1/2" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	140.89 20.56	25.43
23 21 13 23-1459 EA 2" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	169.64 24.07	32.92
23 21 13 23-1460 EA 2-1/2" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	193.22 26.55	40.30
23 21 13 23-1461 EA 3" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	219.51 29.06	49.54
23 21 13 23-1462 EA 4" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	292.00 39.19	64.10
23 21 13 23-1463 EA 5" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	384.34 51.74	83.79
23 21 13 23-1464 EA 6" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	521.05 72.79	104.82
23 21 13 23-1465 EA 8" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	791.29 120.10	127.28
23 21 13 23-1466 EA 10" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	1,107.84 177.05	148.41
23 21 13 23-1467 EA 12" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	1,573.01 261.18	178.15
23 21 13 23-1468 EA 14" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	1,780.00 296.65	197.94
23 21 13 23-1469 EA 16" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	2,225.19 385.34	199.07
23 21 13 23-1470 EA 18" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	2,687.90 471.75	219.59
23 21 13 23-1471 EA 20" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	3,707.75 674.69	222.97
23 21 13 23-1472 EA 24" Reducing Tee, Steel, Grooved For Galvanized Fittings, Add	5,844.84 1,086.79	274.04
23 21 13 23-1473 Grooved 45 Degree Lateral Wyes (23 21 13 23-1398) Note: Victaulic No. 30		
23 21 13 23-1474 EA 3/4" 45 Degree Lateral Wye, Steel, Grooved For Galvanized Fittings, Add	223.43 36.25	14.67

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1475 EA 1" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	226.77 36.25	16.92
23 21 13 23-1476 EA 1-1/4" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	232.41 36.25	20.72
23 21 13 23-1477 EA 1-1/2" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	239.47 36.25	25.43
23 21 13 23-1478 EA 2" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	250.67 36.25	32.92
23 21 13 23-1479 EA 2-1/2" Wye, 45 Degree Lateral, Steel, Grooved..... For Galvanized Fittings, Add	261.87 36.25	40.30
23 21 13 23-1480 EA 3" Wye, 45 Degree Lateral, Steel, Grooved..... For Galvanized Fittings, Add	248.20 31.31	49.54
23 21 13 23-1481 EA 3-1/2" Wye, 45 Degree Lateral, Steel, Grooved..... For Galvanized Fittings, Add	380.33 53.06	57.13
23 21 13 23-1482 EA 4" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	439.17 61.76	64.10
23 21 13 23-1483 EA 5" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	627.05 90.26	83.79
23 21 13 23-1484 EA 6" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	964.99 145.42	104.82
23 21 13 23-1485 EA 8" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	1,354.43 209.46	127.28
23 21 13 23-1486 EA 10" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	1,865.03 295.64	148.41
23 21 13 23-1487 EA 12" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	2,252.90 357.45	178.15
23 21 13 23-1488 EA 14" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	3,195.18 521.72	197.94
23 21 13 23-1489 EA 16" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	3,919.40 651.76	199.07
23 21 13 23-1490 EA 18" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	4,376.88 728.59	219.59
23 21 13 23-1491 EA 20" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	6,474.04 1,105.15	222.97
23 21 13 23-1492 EA 24" 45 Degree Lateral Wye, Steel, Grooved..... For Galvanized Fittings, Add	9,951.60 1,717.33	274.04
23 21 13 23-1493 Grooved 45 Degree Lateral Reducing Wyes (23 21 13 23-1398) Note: Victaulic No. 30R		
23 21 13 23-1494 EA 3" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	248.20 22.62	49.54
23 21 13 23-1495 EA 4" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	439.17 44.60	64.10
23 21 13 23-1496 EA 5" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	627.05 65.18	83.79
23 21 13 23-1497 EA 6" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	804.95 84.22	104.82
23 21 13 23-1498 EA 8" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	1,126.00 121.58	127.28
23 21 13 23-1499 EA 10" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	1,367.95 148.90	148.41
23 21 13 23-1500 EA 12" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	1,659.01 180.95	178.15
23 21 13 23-1501 EA 14" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	1,856.06 202.71	197.94
23 21 13 23-1502 EA 16" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	2,314.02 262.02	199.07
23 21 13 23-1503 EA 18" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	3,423.99 402.33	219.59
23 21 13 23-1504 EA 20" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	4,864.35 588.91	222.97
23 21 13 23-1505 EA 24" 45 Degree Lateral Reducing Wye, Steel, Grooved..... For Galvanized Fittings, Add	7,745.23 953.46	274.04
23 21 13 23-1506 Mechanical-T Outlet (23 21 13 23-1398) Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1507 EA 2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet..... For Galvanized Fittings, Add	107.34 8.31	36.92
23 21 13 23-1508 EA 2" x 1" Mechanical-T Outlet With Threaded Branch Outlet..... For Galvanized Fittings, Add	107.34 8.31	36.92
23 21 13 23-1509 EA 2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet..... For Galvanized Fittings, Add	112.57 9.60	36.92
23 21 13 23-1510 EA 2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	112.57	36.92
23 21 13 23-1511 EA 2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	116.57	41.54
23 21 13 23-1512 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	116.57	41.54
23 21 13 23-1513 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	130.37	41.54
23 21 13 23-1514 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	130.87	46.15
23 21 13 23-1515 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	130.87	46.15
23 21 13 23-1516 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	141.99	46.15
23 21 13 23-1517 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	141.99	46.15
23 21 13 23-1518 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	149.60	46.15
23 21 13 23-1519 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	172.25	61.53

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1520	EA	4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	172.25	61.53
23 21 13 23-1521	EA	4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	180.93	61.53
23 21 13 23-1522	EA	4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	183.36	61.53
23 21 13 23-1523	EA	4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	183.36	61.53
23 21 13 23-1524	EA	4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	185.80	61.53
23 21 13 23-1525	EA	4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	190.47	61.53
23 21 13 23-1526	EA	5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	243.26	84.62
23 21 13 23-1527	EA	5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	243.26	84.62
23 21 13 23-1528	EA	5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	247.47	84.62
23 21 13 23-1529	EA	5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	252.75	84.62
23 21 13 23-1530	EA	6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	291.14	107.69
23 21 13 23-1531	EA	6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	291.14	107.69
23 21 13 23-1532	EA	6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	297.33	107.69
23 21 13 23-1533	EA	6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	302.55	107.69
23 21 13 23-1534	EA	6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	311.84	107.69
23 21 13 23-1535	EA	8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	419.18	142.56
23 21 13 23-1536	EA	8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	419.18	142.56
23 21 13 23-1537	EA	8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	426.64	142.56
23 21 13 23-1538	EA	8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	431.05	142.56
23 21 13 23-1539	Installation-Ready™ Grooved Fittings (23 21 13 23-1312)			
23 21 13 23-1540	Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1539)			
Note: Victaulic No. 101				
23 21 13 23-1541	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	137.78	10.15
		For Galvanized Fittings, Add	40.39	
		For Galvanized Fittings, Add	31.33	
23 21 13 23-1542	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	144.46	12.18
		For Galvanized Fittings, Add	41.58	
		For Galvanized Fittings, Add	32.26	
23 21 13 23-1543	EA	2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	151.52	16.25
		For Galvanized Fittings, Add	41.88	
		For Galvanized Fittings, Add	32.49	
23 21 13 23-1544	EA	2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	183.77	20.31
		For Galvanized Fittings, Add	50.49	
		For Galvanized Fittings, Add	39.17	
23 21 13 23-1545	Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1539)			
Note: Victaulic No. 103				
23 21 13 23-1546	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	137.78	10.15
		For Galvanized Fittings, Add	29.38	
		For Galvanized Fittings, Add	31.33	
23 21 13 23-1547	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	144.46	12.18
		For Galvanized Fittings, Add	30.24	
		For Galvanized Fittings, Add	32.26	
23 21 13 23-1548	EA	2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	151.52	16.25
		For Galvanized Fittings, Add	30.46	
		For Galvanized Fittings, Add	32.49	
23 21 13 23-1549	EA	2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	183.77	20.31
		For Galvanized Fittings, Add	36.72	
		For Galvanized Fittings, Add	39.17	
23 21 13 23-1550	Installation-Ready™ Grooved Tees (23 21 13 23-1539)			
Note: Victaulic No. 102				
23 21 13 23-1551	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee	209.51	13.54
		For Galvanized Fittings, Add	56.70	
		For Galvanized Fittings, Add	48.38	
23 21 13 23-1552	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	219.92	16.25
		For Galvanized Fittings, Add	58.59	
		For Galvanized Fittings, Add	50.00	
23 21 13 23-1553	EA	2" Ductile Iron, Grooved, Installation-Ready™ Tee	230.82	21.66
		For Galvanized Fittings, Add	59.40	
		For Galvanized Fittings, Add	50.69	
23 21 13 23-1554	EA	2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	269.63	27.07
		For Galvanized Fittings, Add	68.58	
		For Galvanized Fittings, Add	58.52	
23 21 13 23-1555	Grooved Fittings (23 21 13 23-1312)			
23 21 13 23-1556	Flanged Adapter Nipple, Grooved (23 21 13 23-1555)			
Note: Victaulic No. 41 and 45				
23 21 13 23-1557	EA	1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	160.18	12.30
		For Galvanized Fittings, Add	25.51	
		For 300 LB Rating, Add	21.26	
23 21 13 23-1558	EA	1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	162.24	13.64
		For Galvanized Fittings, Add	25.51	
		For 300 LB Rating, Add	21.26	
23 21 13 23-1559	EA	1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	167.37	17.13
		For Galvanized Fittings, Add	25.51	
		For 300 LB Rating, Add	21.26	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1560 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	178.15	24.31
For Galvanized Fittings, Add	25.51	
For 300 LB Rating, Add	21.26	
23 21 13 23-1561 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	185.86	29.44
For Galvanized Fittings, Add	25.51	
For 300 LB Rating, Add	21.26	
23 21 13 23-1562 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	234.02	35.18
For Galvanized Fittings, Add	32.64	
For 300 LB Rating, Add	27.20	
23 21 13 23-1563 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	287.27	47.38
For Galvanized Fittings, Add	38.93	
For 300 LB Rating, Add	32.44	
23 21 13 23-1564 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	394.98	57.33
For Galvanized Fittings, Add	55.63	
For 300 LB Rating, Add	46.35	
23 21 13 23-1565 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	468.71	77.44
For Galvanized Fittings, Add	63.47	
For 300 LB Rating, Add	52.89	
23 21 13 23-1566 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	643.80	104.82
For Galvanized Fittings, Add	87.60	
For 300 LB Rating, Add	73.00	
23 21 13 23-1567 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	984.98	127.28
For Galvanized Fittings, Add	142.96	
For 300 LB Rating, Add	119.13	
23 21 13 23-1568 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,308.49	148.41
For Galvanized Fittings, Add	195.47	
For 300 LB Rating, Add	162.89	
23 21 13 23-1569 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,547.69	178.15
For Galvanized Fittings, Add	230.51	
For 300 LB Rating, Add	192.09	
23 21 13 23-1570 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,268.91	197.94
For Galvanized Fittings, Add	354.99	
For 300 LB Rating, Add	295.82	
23 21 13 23-1571 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,761.60	296.91
For Galvanized Fittings, Add	416.96	
For 300 LB Rating, Add	347.47	
23 21 13 23-1572 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,948.66	356.30
For Galvanized Fittings, Add	434.61	
For 300 LB Rating, Add	362.17	
23 21 13 23-1573 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	4,758.83	395.89
For Galvanized Fittings, Add	749.75	
For 300 LB Rating, Add	624.79	
23 21 13 23-1574 Grooved Concentric Reducers (23 21 13 23-1555)		
Note: Victaulic No. 50		
23 21 13 23-1575 EA 1-1/4" x 3/4" Concentric Reducer, Grooved.....	169.62	12.30
For Galvanized Fittings, Add	6.65	
23 21 13 23-1576 EA 1-1/4" x 1" Concentric Reducer, Grooved.....	177.45	13.03
For Galvanized Fittings, Add	6.95	
23 21 13 23-1577 EA 1-1/2" x 3/4" Concentric Reducer, Grooved.....	199.43	14.05
For Galvanized Fittings, Add	21.44	
23 21 13 23-1578 EA 1-1/2" x 1" Concentric Reducer, Grooved.....	60.26	14.67
For Galvanized Fittings, Add	4.59	
23 21 13 23-1579 EA 1-1/2" x 1-1/4" Concentric Reducer, Grooved.....	170.96	15.38
For Galvanized Fittings, Add	17.78	
23 21 13 23-1580 EA 2" x 3/4" Concentric Reducer, Grooved.....	63.34	16.72
For Galvanized Fittings, Add	4.59	
23 21 13 23-1581 EA 2" x 1" Concentric Reducer, Grooved.....	64.37	17.43
For Galvanized Fittings, Add	4.59	
23 21 13 23-1582 EA 2" x 1-1/4" Concentric Reducer, Grooved.....	69.22	18.16
For Galvanized Fittings, Add	5.05	
23 21 13 23-1583 EA 2" x 1-1/2" Concentric Reducer, Grooved.....	68.53	20.21
For Galvanized Fittings, Add	4.59	
23 21 13 23-1584 EA 2-1/2" x 3/4" Concentric Reducer, Grooved.....	339.24	18.87
For Galvanized Fittings, Add	37.38	
23 21 13 23-1585 EA 2-1/2" x 1" Concentric Reducer, Grooved.....	273.22	19.59
For Galvanized Fittings, Add	29.32	
23 21 13 23-1586 EA 2-1/2" x 1-1/4" Concentric Reducer, Grooved.....	251.13	20.21
For Galvanized Fittings, Add	26.54	
23 21 13 23-1587 EA 2-1/2" x 1-1/2" Concentric Reducer, Grooved.....	71.54	22.26
For Galvanized Fittings, Add	4.59	
23 21 13 23-1588 EA 2-1/2" x 2" Concentric Reducer, Grooved.....	75.64	24.92
For Galvanized Fittings, Add	4.59	
23 21 13 23-1589 EA 3" x 3/4" Concentric Reducer, Grooved.....	345.83	21.95
For Galvanized Fittings, Add	47.57	
23 21 13 23-1590 EA 3" x 1" Concentric Reducer, Grooved.....	75.99	22.56
For Galvanized Fittings, Add	6.41	
23 21 13 23-1591 EA 3" x 1-1/4" Concentric Reducer, Grooved.....	277.24	23.28
For Galvanized Fittings, Add	36.85	
23 21 13 23-1592 EA 3" x 1-1/2" Concentric Reducer, Grooved.....	262.68	24.92
For Galvanized Fittings, Add	34.24	
23 21 13 23-1593 EA 3" x 2" Concentric Reducer, Grooved.....	75.05	27.70
For Galvanized Fittings, Add	5.09	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1594	EA	3" x 2-1/2" Concentric Reducer, Grooved.....	95.67	33.02
		For Galvanized Fittings, Add	7.02	
23 21 13 23-1595	EA	3-1/2" x 3" Concentric Reducer, Grooved.....	102.54	35.59
		For Galvanized Fittings, Add	7.48	
23 21 13 23-1596	EA	4" x 1" Concentric Reducer, Grooved	92.77	28.00
		For Galvanized Fittings, Add	8.70	
23 21 13 23-1597	EA	4" x 1-1/4" Concentric Reducer, Grooved.....	444.07	28.72
		For Galvanized Fittings, Add	68.77	
23 21 13 23-1598	EA	4" x 1-1/2" Concentric Reducer, Grooved.....	352.21	30.46
		For Galvanized Fittings, Add	52.58	
23 21 13 23-1599	EA	4" x 2" Concentric Reducer, Grooved	94.37	33.24
		For Galvanized Fittings, Add	7.65	
23 21 13 23-1600	EA	4" x 2-1/2" Concentric Reducer, Grooved.....	109.26	35.59
		For Galvanized Fittings, Add	9.59	
23 21 13 23-1601	EA	4" x 3" Concentric Reducer, Grooved	113.36	38.36
		For Galvanized Fittings, Add	9.59	
23 21 13 23-1602	EA	4" x 3-1/2" Concentric Reducer, Grooved.....	117.46	41.03
		For Galvanized Fittings, Add	9.59	
23 21 13 23-1603	EA	5" x 2" Concentric Reducer, Grooved	622.27	38.66
		For Galvanized Fittings, Add	96.78	
23 21 13 23-1604	EA	5" x 2-1/2" Concentric Reducer, Grooved.....	499.37	41.03
		For Galvanized Fittings, Add	75.09	
23 21 13 23-1605	EA	5" x 3" Concentric Reducer, Grooved	131.11	43.79
		For Galvanized Fittings, Add	11.23	
23 21 13 23-1606	EA	5" x 4" Concentric Reducer, Grooved	152.03	49.23
		For Galvanized Fittings, Add	13.41	
23 21 13 23-1607	EA	6" x 1" Concentric Reducer, Grooved	166.54	41.74
		For Galvanized Fittings, Add	19.40	
23 21 13 23-1608	EA	6" x 1-1/2" Concentric Reducer, Grooved.....	659.48	44.10
		For Galvanized Fittings, Add	110.72	
23 21 13 23-1609	EA	6" x 2" Concentric Reducer, Grooved	174.22	46.87
		For Galvanized Fittings, Add	19.40	
23 21 13 23-1610	EA	6" x 2-1/2" Concentric Reducer, Grooved.....	670.56	49.23
		For Galvanized Fittings, Add	111.35	
23 21 13 23-1611	EA	6" x 3" Concentric Reducer, Grooved	181.93	52.00
		For Galvanized Fittings, Add	19.40	
23 21 13 23-1612	EA	6" x 4" Concentric Reducer, Grooved	176.69	57.43
		For Galvanized Fittings, Add	16.89	
23 21 13 23-1613	EA	6" x 5" Concentric Reducer, Grooved	228.32	62.97
		For Galvanized Fittings, Add	25.00	
23 21 13 23-1614	EA	8" x 3" Concentric Reducer, Grooved	273.98	58.87
		For Galvanized Fittings, Add	34.67	
23 21 13 23-1615	EA	8" x 4" Concentric Reducer, Grooved	282.18	64.31
		For Galvanized Fittings, Add	34.67	
23 21 13 23-1616	EA	8" x 5" Concentric Reducer, Grooved	290.39	69.75
		For Galvanized Fittings, Add	34.67	
23 21 13 23-1617	EA	8" x 6" Concentric Reducer, Grooved	353.83	77.95
		For Galvanized Fittings, Add	44.21	
23 21 13 23-1618	EA	10" x 4" Concentric Reducer, Grooved.....	549.51	71.49
		For Galvanized Fittings, Add	82.54	
23 21 13 23-1619	EA	10" x 5" Concentric Reducer, Grooved.....	1,090.44	76.93
		For Galvanized Fittings, Add	181.94	
23 21 13 23-1620	EA	10" x 6" Concentric Reducer, Grooved.....	611.40	85.13
		For Galvanized Fittings, Add	90.26	
23 21 13 23-1621	EA	10" x 8" Concentric Reducer, Grooved.....	621.64	91.99
		For Galvanized Fittings, Add	90.26	
23 21 13 23-1622	EA	12" x 4" Concentric Reducer, Grooved	1,586.29	81.44
		For Galvanized Fittings, Add	219.64	
23 21 13 23-1623	EA	12" x 6" Concentric Reducer, Grooved.....	719.46	95.07
		For Galvanized Fittings, Add	86.54	
23 21 13 23-1624	EA	12" x 8" Concentric Reducer, Grooved.....	1,019.44	101.95
		For Galvanized Fittings, Add	129.99	
23 21 13 23-1625	EA	12" x 10" Concentric Reducer, Grooved	1,030.26	109.12
		For Galvanized Fittings, Add	129.99	
23 21 13 23-1626	EA	14" x 6" Concentric Reducer, Grooved.....	3,094.09	102.46
		For Galvanized Fittings, Add	90.27	
23 21 13 23-1627	EA	14" x 8" Concentric Reducer, Grooved	1,889.88	109.34
		For Galvanized Fittings, Add	52.99	
23 21 13 23-1628	EA	14" x 10" Concentric Reducer, Grooved	1,631.95	116.51
		For Galvanized Fittings, Add	44.74	
23 21 13 23-1629	EA	14" x 12" Concentric Reducer, Grooved	1,646.80	126.36
		For Galvanized Fittings, Add	44.74	
23 21 13 23-1630	EA	16" x 8" Concentric Reducer, Grooved	2,834.14	116.61
		For Galvanized Fittings, Add	81.64	
23 21 13 23-1631	EA	16" x 10" Concentric Reducer, Grooved	2,644.29	123.79
		For Galvanized Fittings, Add	75.48	
23 21 13 23-1632	EA	16" x 12" Concentric Reducer, Grooved	2,462.47	133.74
		For Galvanized Fittings, Add	69.44	
23 21 13 23-1633	EA	16" x 14" Concentric Reducer, Grooved	2,473.54	141.12
		For Galvanized Fittings, Add	69.44	
23 21 13 23-1634	EA	18" x 10" Concentric Reducer, Grooved	3,667.65	130.67
		For Galvanized Fittings, Add	106.58	
23 21 13 23-1635	EA	18" x 12" Concentric Reducer, Grooved	3,341.02	140.51
		For Galvanized Fittings, Add	96.10	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1636 EA 18" x 14" Concentric Reducer, Grooved	3,055.68	147.90
For Galvanized Fittings, Add	87.00	
23 21 13 23-1637 EA 18" x 16" Concentric Reducer, Grooved	3,066.76	155.38
For Galvanized Fittings, Add	87.00	
23 21 13 23-1638 EA 20" x 10" Concentric Reducer, Grooved	4,027.98	134.05
For Galvanized Fittings, Add	117.49	
23 21 13 23-1639 EA 20" x 12" Concentric Reducer, Grooved	3,478.65	144.00
For Galvanized Fittings, Add	100.17	
23 21 13 23-1640 EA 20" x 14" Concentric Reducer, Grooved	3,489.73	151.38
For Galvanized Fittings, Add	100.17	
23 21 13 23-1641 EA 20" x 16" Concentric Reducer, Grooved	3,132.54	158.67
For Galvanized Fittings, Add	88.87	
23 21 13 23-1642 EA 20" x 18" Concentric Reducer, Grooved	3,335.05	165.53
For Galvanized Fittings, Add	94.77	
23 21 13 23-1643 EA 24" x 10" Concentric Reducer, Grooved	8,751.56	149.13
For Galvanized Fittings, Add	261.81	
23 21 13 23-1644 EA 24" x 12" Concentric Reducer, Grooved	8,560.56	159.08
For Galvanized Fittings, Add	255.49	
23 21 13 23-1645 EA 24" x 14" Concentric Reducer, Grooved	7,484.82	166.36
For Galvanized Fittings, Add	222.13	
23 21 13 23-1646 EA 24" x 16" Concentric Reducer, Grooved	7,495.97	173.85
For Galvanized Fittings, Add	222.13	
23 21 13 23-1647 EA 24" x 18" Concentric Reducer, Grooved	6,446.59	180.61
For Galvanized Fittings, Add	189.60	
23 21 13 23-1648 EA 24" x 20" Concentric Reducer, Grooved	5,904.78	184.10
For Galvanized Fittings, Add	172.80	
23 21 13 23-1649 Grooved Eccentric Reducers (23 21 13 23-1555)		
Note: Victaulic No. 51		
23 21 13 23-1650 EA 1-1/2" x 3/4" Eccentric Reducer, Grooved	205.59	14.05
For Galvanized Fittings, Add	22.19	
23 21 13 23-1651 EA 1-1/2" x 1" Eccentric Reducer, Grooved	188.65	14.67
For Galvanized Fittings, Add	20.03	
23 21 13 23-1652 EA 1-1/2" x 1-1/4" Eccentric Reducer, Grooved	186.05	15.38
For Galvanized Fittings, Add	19.59	
23 21 13 23-1653 EA 2" x 3/4" Eccentric Reducer, Grooved	383.77	16.72
For Galvanized Fittings, Add	43.11	
23 21 13 23-1654 EA 2" x 1" Eccentric Reducer, Grooved	210.13	17.43
For Galvanized Fittings, Add	22.11	
23 21 13 23-1655 EA 2" x 1-1/4" Eccentric Reducer, Grooved	228.86	18.16
For Galvanized Fittings, Add	24.24	
23 21 13 23-1656 EA 2" x 1-1/2" Eccentric Reducer, Grooved	199.14	20.21
For Galvanized Fittings, Add	20.29	
23 21 13 23-1657 EA 2-1/2" x 3/4" Eccentric Reducer, Grooved	496.46	18.87
For Galvanized Fittings, Add	56.27	
23 21 13 23-1658 EA 2-1/2" x 1" Eccentric Reducer, Grooved	465.47	19.59
For Galvanized Fittings, Add	52.43	
23 21 13 23-1659 EA 2-1/2" x 1-1/4" Eccentric Reducer, Grooved	283.63	20.21
For Galvanized Fittings, Add	30.45	
23 21 13 23-1660 EA 2-1/2" x 1-1/2" Eccentric Reducer, Grooved	234.05	22.26
For Galvanized Fittings, Add	24.13	
23 21 13 23-1661 EA 2-1/2" x 2" Eccentric Reducer, Grooved	118.28	24.92
For Galvanized Fittings, Add	9.72	
23 21 13 23-1662 EA 3" x 1" Eccentric Reducer, Grooved	501.66	22.56
For Galvanized Fittings, Add	56.24	
23 21 13 23-1663 EA 3" x 1-1/4" Eccentric Reducer, Grooved	458.38	23.28
For Galvanized Fittings, Add	50.91	
23 21 13 23-1664 EA 3" x 1-1/2" Eccentric Reducer, Grooved	269.59	24.92
For Galvanized Fittings, Add	27.91	
23 21 13 23-1665 EA 3" x 2" Eccentric Reducer, Grooved	134.46	27.70
For Galvanized Fittings, Add	11.17	
23 21 13 23-1666 EA 3" x 2-1/2" Eccentric Reducer, Grooved	142.41	33.02
For Galvanized Fittings, Add	11.17	
23 21 13 23-1667 EA 3-1/2" x 3" Eccentric Reducer, Grooved	567.37	35.59
For Galvanized Fittings, Add	61.79	
23 21 13 23-1668 EA 4" x 1" Eccentric Reducer, Grooved	990.39	28.00
For Galvanized Fittings, Add	162.64	
23 21 13 23-1669 EA 4" x 1-1/2" Eccentric Reducer, Grooved	619.20	30.46
For Galvanized Fittings, Add	98.36	
23 21 13 23-1670 EA 4" x 2" Eccentric Reducer, Grooved	163.36	33.24
For Galvanized Fittings, Add	19.48	
23 21 13 23-1671 EA 4" x 2-1/2" Eccentric Reducer, Grooved	166.95	35.59
For Galvanized Fittings, Add	19.48	
23 21 13 23-1672 EA 4" x 3" Eccentric Reducer, Grooved	171.05	38.36
For Galvanized Fittings, Add	19.48	
23 21 13 23-1673 EA 5" x 2" Eccentric Reducer, Grooved	690.41	38.66
For Galvanized Fittings, Add	108.47	
23 21 13 23-1674 EA 5" x 2-1/2" Eccentric Reducer, Grooved	600.36	41.03
For Galvanized Fittings, Add	92.41	
23 21 13 23-1675 EA 5" x 3" Eccentric Reducer, Grooved	586.10	43.79
For Galvanized Fittings, Add	89.26	
23 21 13 23-1676 EA 5" x 4" Eccentric Reducer, Grooved	228.59	49.23
For Galvanized Fittings, Add	26.54	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
HVAC Piping And Pumps		23 20
Hydronic Piping And Pumps		23 21

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1677 EA 6" x 1" Eccentric Reducer, Grooved	1,045.74	41.74
For Galvanized Fittings, Add	183.46	
23 21 13 23-1678 EA 6" x 2" Eccentric Reducer, Grooved	966.86	46.87
For Galvanized Fittings, Add	167.31	
23 21 13 23-1679 EA 6" x 2-1/2" Eccentric Reducer, Grooved	1,141.50	49.23
For Galvanized Fittings, Add	199.22	
23 21 13 23-1680 EA 6" x 3" Eccentric Reducer, Grooved	283.98	52.00
For Galvanized Fittings, Add	38.44	
23 21 13 23-1681 EA 6" x 4" Eccentric Reducer, Grooved	266.48	57.43
For Galvanized Fittings, Add	33.65	
23 21 13 23-1682 EA 6" x 5" Eccentric Reducer, Grooved	310.69	62.97
For Galvanized Fittings, Add	40.37	
23 21 13 23-1683 EA 8" x 3" Eccentric Reducer, Grooved	1,129.96	58.87
For Galvanized Fittings, Add	194.39	
23 21 13 23-1684 EA 8" x 4" Eccentric Reducer, Grooved	1,006.84	64.31
For Galvanized Fittings, Add	169.89	
23 21 13 23-1685 EA 8" x 5" Eccentric Reducer, Grooved	952.26	69.75
For Galvanized Fittings, Add	158.17	
23 21 13 23-1686 EA 8" x 6" Eccentric Reducer, Grooved	482.58	77.95
For Galvanized Fittings, Add	68.23	
23 21 13 23-1687 EA 10" x 4" Eccentric Reducer, Grooved	1,777.87	71.49
For Galvanized Fittings, Add	311.75	
23 21 13 23-1688 EA 10" x 5" Eccentric Reducer, Grooved	1,689.42	76.93
For Galvanized Fittings, Add	293.71	
23 21 13 23-1689 EA 10" x 6" Eccentric Reducer, Grooved	1,314.66	85.13
For Galvanized Fittings, Add	221.49	
23 21 13 23-1690 EA 10" x 8" Eccentric Reducer, Grooved	1,142.55	91.99
For Galvanized Fittings, Add	187.46	
23 21 13 23-1691 EA 12" x 4" Eccentric Reducer, Grooved	1,820.83	81.44
For Galvanized Fittings, Add	256.35	
23 21 13 23-1692 EA 12" x 6" Eccentric Reducer, Grooved	1,728.21	95.07
For Galvanized Fittings, Add	239.28	
23 21 13 23-1693 EA 12" x 8" Eccentric Reducer, Grooved	1,697.91	101.95
For Galvanized Fittings, Add	233.16	
23 21 13 23-1694 EA 12" x 10" Eccentric Reducer, Grooved	1,547.58	109.12
For Galvanized Fittings, Add	208.84	
23 21 13 23-1695 EA 14" x 6" Eccentric Reducer, Grooved	4,154.58	102.46
For Galvanized Fittings, Add	122.83	
23 21 13 23-1696 EA 14" x 8" Eccentric Reducer, Grooved	2,721.84	109.34
For Galvanized Fittings, Add	78.53	
23 21 13 23-1697 EA 14" x 10" Eccentric Reducer, Grooved	2,609.61	116.51
For Galvanized Fittings, Add	74.75	
23 21 13 23-1698 EA 14" x 12" Eccentric Reducer, Grooved	2,624.46	126.36
For Galvanized Fittings, Add	74.75	
23 21 13 23-1699 EA 16" x 8" Eccentric Reducer, Grooved	4,593.44	116.61
For Galvanized Fittings, Add	135.65	
23 21 13 23-1700 EA 16" x 10" Eccentric Reducer, Grooved	4,268.74	123.79
For Galvanized Fittings, Add	125.35	
23 21 13 23-1701 EA 16" x 12" Eccentric Reducer, Grooved	4,037.10	133.74
For Galvanized Fittings, Add	117.78	
23 21 13 23-1702 EA 16" x 14" Eccentric Reducer, Grooved	4,048.17	141.12
For Galvanized Fittings, Add	117.78	
23 21 13 23-1703 EA 18" x 10" Eccentric Reducer, Grooved	5,749.25	130.67
For Galvanized Fittings, Add	170.49	
23 21 13 23-1704 EA 18" x 12" Eccentric Reducer, Grooved	5,425.31	140.51
For Galvanized Fittings, Add	160.09	
23 21 13 23-1705 EA 18" x 14" Eccentric Reducer, Grooved	4,959.53	147.90
For Galvanized Fittings, Add	145.45	
23 21 13 23-1706 EA 18" x 16" Eccentric Reducer, Grooved	4,970.61	155.38
For Galvanized Fittings, Add	145.45	
23 21 13 23-1707 EA 20" x 10" Eccentric Reducer, Grooved	7,518.97	134.05
For Galvanized Fittings, Add	224.66	
23 21 13 23-1708 EA 20" x 12" Eccentric Reducer, Grooved	5,628.90	144.00
For Galvanized Fittings, Add	166.18	
23 21 13 23-1709 EA 20" x 14" Eccentric Reducer, Grooved	5,301.57	151.38
For Galvanized Fittings, Add	155.79	
23 21 13 23-1710 EA 20" x 16" Eccentric Reducer, Grooved	5,230.39	158.67
For Galvanized Fittings, Add	153.27	
23 21 13 23-1711 EA 20" x 18" Eccentric Reducer, Grooved	5,049.48	165.53
For Galvanized Fittings, Add	147.40	
23 21 13 23-1712 EA 24" x 12" Eccentric Reducer, Grooved	10,832.28	159.08
For Galvanized Fittings, Add	325.23	
23 21 13 23-1713 EA 24" x 14" Eccentric Reducer, Grooved	9,278.35	166.36
For Galvanized Fittings, Add	277.19	
23 21 13 23-1714 EA 24" x 16" Eccentric Reducer, Grooved	9,289.50	173.85
For Galvanized Fittings, Add	277.19	
23 21 13 23-1715 EA 24" x 18" Eccentric Reducer, Grooved	8,787.16	180.61
For Galvanized Fittings, Add	261.45	
23 21 13 23-1716 EA 24" x 20" Eccentric Reducer, Grooved	8,047.65	184.10
For Galvanized Fittings, Add	238.59	

23 21 13 23-1717 Close Nipple, Grooved (23 21 13 23-1555)
Note: Victaulic No. 143

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1718	EA	1-1/4" Ductile Iron, Grooved, Close Nipple	40.61	13.54
		For Galvanized Fittings, Add	3.62	
		For 300 LB Rating, Add	3.02	
		For Galvanized Fittings, Add	5.15	
23 21 13 23-1719	EA	1-1/2" Ductile Iron, Grooved, Close Nipple	47.55	16.92
		For Galvanized Fittings, Add	3.94	
		For 300 LB Rating, Add	3.29	
		For Galvanized Fittings, Add	5.61	
23 21 13 23-1720	EA	2" Ductile Iron, Grooved, Close Nipple.....	60.25	22.34
		For Galvanized Fittings, Add	4.75	
		For 300 LB Rating, Add	3.96	
		For Galvanized Fittings, Add	6.76	
23 21 13 23-1721	EA	2-1/2" Ductile Iron, Grooved, Close Nipple	72.23	27.07
		For Galvanized Fittings, Add	5.62	
		For 300 LB Rating, Add	4.68	
		For Galvanized Fittings, Add	7.99	
23 21 13 23-1722		Grooved Couplings (23 21 13 23-1312)		
23 21 13 23-1723		Flexible Grooved Coupling (23 21 13 23-1722)		
		Note: Victaulic Style 77		
23 21 13 23-1724	EA	3/4" Standard Coupling, Grooved	30.93	5.54
		For Galvanized Fittings, Add	6.31	
23 21 13 23-1725	EA	1" Standard Coupling, Grooved	30.93	5.54
		For Galvanized Fittings, Add	6.31	
23 21 13 23-1726	EA	1-1/4" Standard Coupling, Grooved	40.48	6.98
		For Galvanized Fittings, Add	8.40	
23 21 13 23-1727	EA	1-1/2" Standard Coupling, Grooved	45.30	8.30
		For Galvanized Fittings, Add	9.18	
23 21 13 23-1728	EA	2" Standard Coupling, Grooved	51.41	11.18
		For Galvanized Fittings, Add	9.70	
23 21 13 23-1729	EA	2-1/2" Standard Coupling, Grooved	61.89	13.64
		For Galvanized Fittings, Add	11.61	
23 21 13 23-1730	EA	3" Standard Coupling, Grooved	65.85	16.31
		For Galvanized Fittings, Add	11.61	
23 21 13 23-1731	EA	3-1/2" Standard Coupling, Grooved	95.47	19.08
		For Galvanized Fittings, Add	18.71	
23 21 13 23-1732	EA	4" Standard Coupling, Grooved	99.48	21.74
		For Galvanized Fittings, Add	18.71	
23 21 13 23-1733	EA	5" Standard Coupling, Grooved	143.27	27.28
		For Galvanized Fittings, Add	28.68	
23 21 13 23-1734	EA	6" Standard Coupling, Grooved	174.52	35.59
		For Galvanized Fittings, Add	33.91	
23 21 13 23-1735	EA	8" Standard Coupling, Grooved	261.00	42.46
		For Galvanized Fittings, Add	55.27	
23 21 13 23-1736	EA	10" Standard Coupling, Grooved	404.37	50.87
		For Galvanized Fittings, Add	91.86	
23 21 13 23-1737	EA	12" Standard Coupling, Grooved	457.00	55.69
		For Galvanized Fittings, Add	104.59	
23 21 13 23-1738	EA	14" Standard Coupling, Grooved	565.06	74.25
		For Galvanized Fittings, Add	127.06	
23 21 13 23-1739	EA	16" Standard Coupling, Grooved	728.74	89.13
		For Galvanized Fittings, Add	166.66	
23 21 13 23-1740	EA	18" Standard Coupling, Grooved	845.45	98.97
		For Galvanized Fittings, Add	195.18	
23 21 13 23-1741	EA	20" Standard Coupling, Grooved	1,263.53	111.39
		For Galvanized Fittings, Add	307.05	
23 21 13 23-1742	EA	24" Standard Coupling, Grooved	1,408.04	137.02
		For Galvanized Fittings, Add	336.73	
23 21 13 23-1743		Zero-Flex® Rigid Coupling (23 21 13 23-1722)		
		Note: Victaulic Style 07		
23 21 13 23-1744	EA	1" Rigid Coupling, Grooved.....	39.75	5.54
		For Galvanized Fittings, Add	7.69	
23 21 13 23-1745	EA	1-1/4" Rigid Coupling, Grooved	41.85	6.98
		For Galvanized Fittings, Add	7.69	
23 21 13 23-1746	EA	1-1/2" Rigid Coupling, Grooved	43.88	8.30
		For Galvanized Fittings, Add	7.69	
23 21 13 23-1747	EA	2" Rigid Coupling, Grooved.....	48.93	11.18
		For Galvanized Fittings, Add	7.88	
23 21 13 23-1748	EA	2-1/2" Rigid Coupling, Grooved	57.51	13.64
		For Galvanized Fittings, Add	9.09	
23 21 13 23-1749	EA	3" Rigid Coupling, Grooved.....	61.47	16.31
		For Galvanized Fittings, Add	9.09	
23 21 13 23-1750	EA	3-1/2" Rigid Coupling, Grooved	71.98	19.08
		For Galvanized Fittings, Add	10.62	
23 21 13 23-1751	EA	4" Rigid Coupling, Grooved.....	94.07	21.74
		For Galvanized Fittings, Add	15.05	
23 21 13 23-1752	EA	5" Rigid Coupling, Grooved.....	120.59	27.28
		For Galvanized Fittings, Add	19.54	
23 21 13 23-1753	EA	6" Rigid Coupling, Grooved.....	160.03	35.59
		For Galvanized Fittings, Add	26.12	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1754 EA 8" Rigid Coupling, Grooved For Galvanized Fittings, Add	231.55 41.15	42.46
23 21 13 23-1755 EA 10" Rigid Coupling, Grooved For Galvanized Fittings, Add	377.26 73.73	50.87
23 21 13 23-1756 EA 12" Rigid Coupling, Grooved For Galvanized Fittings, Add	420.24 82.51	55.69
23 21 13 23-1757 EA 14" Rigid Coupling, Grooved For Galvanized Fittings, Add	551.28 107.80	74.25
23 21 13 23-1758 EA 16" Rigid Coupling, Grooved For Galvanized Fittings, Add	707.39 140.59	89.13
23 21 13 23-1759 EA 18" Rigid Coupling, Grooved For Galvanized Fittings, Add	811.75 162.53	98.97
23 21 13 23-1760 EA 20" Rigid Coupling, Grooved For Galvanized Fittings, Add	956.72 193.50	111.39
23 21 13 23-1761 EA 24" Rigid Coupling, Grooved For Galvanized Fittings, Add	1,368.76 285.01	137.02
23 21 13 23-1762 Large Diameter Grooved Coupling (23 21 13 23-1722)		
Note: Victaulic Style 770		
23 21 13 23-1763 EA 28" Coupling, Grooved..... For Galvanized Fittings, Add	1,436.76 195.43	27.28
23 21 13 23-1764 EA 30" Coupling, Grooved..... For Galvanized Fittings, Add	1,660.57 225.00	35.59
23 21 13 23-1765 EA 32" Coupling, Grooved..... For Galvanized Fittings, Add	2,470.42 336.95	42.46
23 21 13 23-1766 EA 36" Coupling, Grooved..... For Galvanized Fittings, Add	3,282.77 448.90	50.87
23 21 13 23-1767 EA 42" Coupling, Grooved..... For Galvanized Fittings, Add	6,568.25 907.87	55.69
23 21 13 23-1768 Flexible Coupling (23 21 13 23-1722)		
Note: Victaulic Style 75		
23 21 13 23-1769 EA 1-1/2" Flexible Coupling, Grooved For Galvanized Fittings, Add	41.02 7.30	8.30
23 21 13 23-1770 EA 2" Flexible Coupling, Grooved For Galvanized Fittings, Add	46.00 7.49	11.18
23 21 13 23-1771 EA 2-1/2" Flexible Coupling, Grooved For Galvanized Fittings, Add	54.32 8.68	13.64
23 21 13 23-1772 EA 3" Flexible Coupling, Grooved For Galvanized Fittings, Add	63.79 10.09	16.31
23 21 13 23-1773 EA 3-1/2" Flexible Coupling, Grooved For Galvanized Fittings, Add	84.48 14.29	19.08
23 21 13 23-1774 EA 4" Flexible Coupling, Grooved For Galvanized Fittings, Add	88.49 14.29	21.74
23 21 13 23-1775 EA 5" Flexible Coupling, Grooved For Galvanized Fittings, Add	121.38 20.62	27.28
23 21 13 23-1776 EA 6" Flexible Coupling, Grooved For Galvanized Fittings, Add	150.46 24.84	35.59
23 21 13 23-1777 EA 8" Flexible Coupling, Grooved For Galvanized Fittings, Add	216.13 39.05	42.46
23 21 13 23-1778 Installation-Ready™ Coupling (23 21 13 23-1722)		
Note: Victaulic Style 009N		
23 21 13 23-1779 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	43.25 9.06	5.18
23 21 13 23-1780 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	45.53 9.25	6.19
23 21 13 23-1781 EA 2" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	53.50 10.47	8.32
23 21 13 23-1782 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	62.37 12.06	10.08
23 21 13 23-1783 EA 3" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	71.65 13.64	12.11
23 21 13 23-1784 EA 4" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	99.34 19.16	16.18
23 21 13 23-1785 EA 5" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	153.06 31.33	20.24
23 21 13 23-1786 EA 6" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	186.35 37.44	26.47
23 21 13 23-1787 EA 8" Ductile Iron, Installation-Ready™ Coupling For Galvanized Fittings, Add	292.04 62.55	31.48
23 21 13 23-1788 Grooved Strainers And Suction Diffusers (23 21 13 23-1312)		
23 21 13 23-1789 Grooved Wye Strainers (23 21 13 23-1788)		
Note: Victaulic Style 732		
23 21 13 23-1790 EA 2" Wye Strainer, Grooved.....	619.97	22.56
23 21 13 23-1791 EA 2-1/2" Wye Strainer, Grooved.....	656.85	27.38
23 21 13 23-1792 EA 3" Wye Strainer, Grooved.....	741.38	32.82
23 21 13 23-1793 EA 4" Wye Strainer, Grooved.....	848.49	43.79

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1794 EA 5" Wye Strainer, Grooved	1,216.14	54.77
23 21 13 23-1795 EA 6" Wye Strainer, Grooved	1,338.45	71.18
23 21 13 23-1796 EA 8" Wye Strainer, Grooved	2,015.33	84.82
23 21 13 23-1797 EA 10" Wye Strainer, Grooved	3,183.65	99.18
23 21 13 23-1798 EA 12" Wye Strainer, Grooved	5,480.43	119.08
23 21 13 23-1799 Grooved Tee Type Strainers (23 21 13 23-1798)		
Note: Victaulic Style 730		
23 21 13 23-1800 EA 1-1/2" Tee Type Strainer, Grooved	477.95	17.13
23 21 13 23-1801 EA 2" Tee Type Strainer, Grooved	612.74	22.56
23 21 13 23-1802 EA 2-1/2" Tee Type Strainer, Grooved	649.32	27.38
23 21 13 23-1803 EA 3" Tee Type Strainer, Grooved	732.88	32.82
23 21 13 23-1804 EA 4" Tee Type Strainer, Grooved	838.86	43.79
23 21 13 23-1805 EA 5" Tee Type Strainer, Grooved	1,202.12	54.77
23 21 13 23-1806 EA 6" Tee Type Strainer, Grooved	1,323.33	71.18
23 21 13 23-1807 EA 8" Tee Type Strainer, Grooved	1,991.91	84.82
23 21 13 23-1808 EA 10" Tee Type Strainer, Grooved	2,887.23	99.18
23 21 13 23-1809 EA 12" Tee Type Strainer, Grooved	3,703.70	119.08
23 21 13 23-1810 EA 14" Tee Type Strainer, Grooved	12,767.69	134.05
23 21 13 23-1811 EA 16" Tee Type Strainer, Grooved	15,841.02	148.41
23 21 13 23-1812 EA 18" Tee Type Strainer, Grooved	20,785.87	162.15
23 21 13 23-1813 Grooved Suction Diffuser (23 21 13 23-1798)		
Note: Victaulic Style 731		
23 21 13 23-1814 EA 2-1/2" Grooved x 2" Flanged Suction Diffuser	1,240.10	25.33
23 21 13 23-1815 EA 3" Grooved x 2" Flanged Suction Diffuser	1,317.81	28.00
23 21 13 23-1816 EA 3" Grooved x 2-1/2" Flanged Suction Diffuser	966.80	32.82
23 21 13 23-1817 EA 3" Grooved x 3" Flanged Suction Diffuser	982.84	35.59
23 21 13 23-1818 EA 4" Grooved x 2-1/2" Flanged Suction Diffuser	1,061.29	35.59
23 21 13 23-1819 EA 4" Grooved x 3" Flanged Suction Diffuser	1,144.92	38.36
23 21 13 23-1820 EA 4" Grooved x 4" Flanged Suction Diffuser	1,317.31	38.36
23 21 13 23-1821 EA 5" Grooved x 4" Flanged Suction Diffuser	1,477.71	49.23
23 21 13 23-1822 EA 5" Grooved x 5" Flanged Suction Diffuser	1,553.06	52.00
23 21 13 23-1823 EA 6" Grooved x 4" Flanged Suction Diffuser	1,582.97	57.43
23 21 13 23-1824 EA 6" Grooved x 5" Flanged Suction Diffuser	1,884.92	62.97
23 21 13 23-1825 EA 6" Grooved x 6" Flanged Suction Diffuser	1,959.66	67.07
23 21 13 23-1826 EA 8" Grooved x 5" Flanged Suction Diffuser	2,011.86	69.75
23 21 13 23-1827 EA 8" Grooved x 6" Flanged Suction Diffuser	2,128.10	77.95
23 21 13 23-1828 EA 8" Grooved x 8" Flanged Suction Diffuser	3,588.17	84.82
23 21 13 23-1829 EA 10" Grooved x 8" Flanged Suction Diffuser	4,043.22	91.69
23 21 13 23-1830 EA 10" Grooved x 10" Flanged Suction Diffuser	4,848.44	95.07
23 21 13 23-1831 EA 12" Grooved x 10" Flanged Suction Diffuser	5,733.95	109.44
23 21 13 23-1832 EA 12" Grooved x 12" Flanged Suction Diffuser	7,922.32	116.30
23 21 13 23-1833 EA 14" Grooved x 10" Flanged Suction Diffuser	7,385.45	116.30
23 21 13 23-1834 EA 14" Grooved x 12" Flanged Suction Diffuser	8,244.47	126.57
23 21 13 23-1835 EA 14" Grooved x 14" Flanged Suction Diffuser	9,982.19	134.05
23 21 13 23-1836 EA 16" Grooved x 14" Flanged Suction Diffuser	10,280.45	140.92
23 21 13 23-1837 Grooved Steel Valves (23 21 13 23-1812)		
23 21 13 23-1838 Grooved Butterfly Valves With Standard Trim (23 21 13 23-1837)		
23 21 13 23-1839 EA 1-1/2" Butterfly Valve, Grooved, With Standard Trim	204.32	11.18
23 21 13 23-1840 EA 2" Butterfly Valve, Grooved, With Standard Trim	209.61	14.67
23 21 13 23-1841 EA 3" Butterfly Valve, Grooved, With Standard Trim	343.02	21.74
23 21 13 23-1842 EA 4" Butterfly Valve, Grooved, With Standard Trim	460.52	28.61
23 21 13 23-1843 EA 6" Butterfly Valve, Grooved, With Standard Trim	999.15	46.87
23 21 13 23-1844 EA 8" Butterfly Valve, Grooved, With Standard Trim	1,385.04	65.95
23 21 13 23-1845 EA 10" Butterfly Valve, Grooved, With Standard Trim	2,076.11	89.13
23 21 13 23-1846 Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1837)		
23 21 13 23-1847 EA 1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim	304.80	11.18
23 21 13 23-1848 EA 2" Butterfly Valve, Grooved, With Stainless Steel Trim	310.09	14.67
23 21 13 23-1849 EA 3" Butterfly Valve, Grooved, With Stainless Steel Trim	479.23	21.74
23 21 13 23-1850 EA 4" Butterfly Valve, Grooved, With Stainless Steel Trim	610.12	28.61
23 21 13 23-1851 EA 6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,164.38	46.87
23 21 13 23-1852 EA 8" Butterfly Valve, Grooved, With Stainless Steel Trim	1,929.85	65.95
23 21 13 23-1853 EA 10" Butterfly Valve, Grooved, With Stainless Steel Trim	3,036.23	89.13
23 21 13 23-1854 Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-1837)		
Note: Victaulic No. 721		
23 21 13 23-1855 EA 1-1/2" Ball Valve, Grooved, With Standard Trim	173.09	10.98
23 21 13 23-1856 EA 2" Ball Valve, Grooved, With Standard Trim	199.03	15.08
23 21 13 23-1857 EA 2-1/2" Ball Valve, Grooved, With Standard Trim	448.42	18.46
23 21 13 23-1858 EA 3" Ball Valve, Grooved, With Standard Trim	732.01	21.85
23 21 13 23-1859 EA 4" Ball Valve, Grooved, With Standard Trim	1,137.88	28.72
23 21 13 23-1860 EA 6" Ball Valve, Grooved, With Standard Trim	3,521.42	47.18

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1861 Grooved Ball Valves With Stainless Steel Trim And Handle (23 21 13 23-1837)				
Note: Victaulic No. 721				
23 21 13 23-1862	EA	1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	184.09	10.98
23 21 13 23-1863	EA	2" Ball Valve, Grooved, With Stainless Steel Trim.....	313.26	15.08
23 21 13 23-1864	EA	2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	808.62	18.46
23 21 13 23-1865	EA	3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,044.87	21.85
23 21 13 23-1866	EA	4" Ball Valve, Grooved, With Stainless Steel Trim.....	1,426.99	28.72
23 21 13 23-1867	EA	6" Ball Valve, Grooved, With Stainless Steel Trim.....	3,879.67	47.18
23 21 13 23-1868 Grooved Check Valves (23 21 13 23-1837)				
Note: Victaulic No. 712				
23 21 13 23-1869	EA	2" Check Valve, Grooved.....	261.92	15.08
23 21 13 23-1870	EA	2-1/2" Check Valve, Grooved.....	423.03	18.46
23 21 13 23-1871	EA	3" Check Valve, Grooved.....	493.00	21.85
23 21 13 23-1872	EA	4" Check Valve, Grooved.....	697.94	28.72
23 21 13 23-1873 Grooved Vic-Check Check Valves (23 21 13 23-1837)				
Note: Victaulic No. 716				
23 21 13 23-1874	EA	2-1/2" "Vic-Check" Check Valve, Grooved.....	339.49	18.46
23 21 13 23-1875	EA	3" "Vic-Check" Check Valve, Grooved.....	344.47	21.85
23 21 13 23-1876	EA	4" "Vic-Check" Check Valve, Grooved.....	432.23	28.72
23 21 13 23-1877	EA	6" "Vic-Check" Check Valve, Grooved.....	839.08	47.18
23 21 13 23-1878	EA	8" "Vic-Check" Check Valve, Grooved.....	1,148.56	65.64
23 21 13 23-1879	EA	10" "Vic-Check" Check Valve, Grooved.....	3,173.21	88.92
23 21 13 23-1880	EA	12" "Vic-Check" Check Valve, Grooved.....	3,756.61	102.66
23 21 13 23-1881 Grooved Plug Valves With Lever Operator (23 21 13 23-1837)				
Note: Victaulic No. 377				
23 21 13 23-1882	EA	3" Balancing Plug Valve, Grooved, With Lever Handle.....	387.49	21.85
23 21 13 23-1883	EA	4" Balancing Plug Valve, Grooved, With Lever Handle.....	433.43	28.72
23 21 13 23-1884	EA	6" Balancing Plug Valve, Grooved, With Lever Handle.....	770.59	47.18
23 21 13 23-1885 Grooved Plug Valve With Gear Operator (23 21 13 23-1837)				
Note: Victaulic No. 377				
23 21 13 23-1886	EA	3" Balancing Plug Valve, Grooved, With Gear Operator.....	673.66	21.85
23 21 13 23-1887	EA	4" Balancing Plug Valve, Grooved, With Gear Operator.....	719.63	28.72
23 21 13 23-1888	EA	6" Balancing Plug Valve, Grooved, With Gear Operator.....	1,056.78	47.18
23 21 13 23-1889	EA	8" Balancing Plug Valve, Grooved, With Gear Operator.....	1,415.53	65.64
23 21 13 23-1890	EA	10" Balancing Plug Valve, Grooved, With Gear Operator.....	2,210.50	88.92
23 21 13 23-1891	EA	12" Balancing Plug Valve, Grooved, With Gear Operator.....	3,179.67	102.66
23 21 13 23-1892 Prepare Pipe For Groove (23 21 13 23-1312)				
23 21 13 23-1893 Cut Grooved Pipe (23 21 13 23-1892)				
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.				
23 21 13 23-1894	EA	Cut 3/4" Groove.....	10.75	
23 21 13 23-1895	EA	Cut 1" Groove.....	11.66	
23 21 13 23-1896	EA	Cut 1-1/4" Groove.....	13.17	
23 21 13 23-1897	EA	Cut 1-1/2" Groove.....	14.33	
23 21 13 23-1898	EA	Cut 2" Groove.....	15.70	
23 21 13 23-1899	EA	Cut 2-1/2" Groove.....	17.01	
23 21 13 23-1900	EA	Cut 3" Groove.....	18.56	
23 21 13 23-1901	EA	Cut 3-1/2" Groove.....	19.67	
23 21 13 23-1902	EA	Cut 4" Groove.....	20.94	
23 21 13 23-1903	EA	Cut 5" Groove.....	22.68	
23 21 13 23-1904	EA	Cut 6" Groove.....	23.33	
23 21 13 23-1905	EA	Cut 8" Groove.....	30.24	
23 21 13 23-1906	EA	Cut 10" Groove.....	42.98	
23 21 13 23-1907	EA	Cut 12" Groove.....	54.44	
23 21 13 23-1908	EA	Cut 14" Groove.....	81.66	
23 21 13 23-1909	EA	Cut 16" Groove.....	85.95	
23 21 13 23-1910	EA	Cut 18" Groove.....	90.73	
23 21 13 23-1911	EA	Cut 20" Groove.....	96.07	
23 21 13 23-1912	EA	Cut 24" Groove.....	108.87	
23 21 13 23-1913 Roll Grooved Pipe (23 21 13 23-1892)				
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.				
23 21 13 23-1914	EA	Roll 3/4" Groove.....	6.14	
23 21 13 23-1915	EA	Roll 1" Groove.....	7.17	
23 21 13 23-1916	EA	Roll 1-1/4" Groove.....	8.16	
23 21 13 23-1917	EA	Roll 1-1/2" Groove.....	9.18	
23 21 13 23-1918	EA	Roll 2" Groove.....	14.07	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1919	EA	Roll 2-1/2" Groove		14.85	
23 21 13 23-1920	EA	Roll 3" Groove.....		16.34	
23 21 13 23-1921	EA	Roll 3-1/2" Groove		17.37	
23 21 13 23-1922	EA	Roll 4" Groove.....		18.99	
23 21 13 23-1923	EA	Roll 5" Groove.....		19.44	
23 21 13 23-1924	EA	Roll 6" Groove.....		20.42	
23 21 13 23-1925	EA	Roll 8" Groove.....		24.74	
23 21 13 23-1926	EA	Roll 10" Groove.....		28.16	
23 21 13 23-1927	EA	Roll 12" Groove.....		35.51	
23 21 13 23-1928	EA	Roll 14" Groove.....		54.44	
23 21 13 23-1929	EA	Roll 16" Groove.....		58.33	
23 21 13 23-1930	EA	Roll 18" Groove.....		60.49	
23 21 13 23-1931	EA	Roll 20" Groove.....		65.32	
23 21 13 23-1932	EA	Roll 24" Groove.....		71.00	
23 21 13 23-1933 Standard Gaskets (23 21 13 23-1892)					
Note: For use on replacement of existing gaskets.					
23 21 13 23-1934	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		20.54	
23 21 13 23-1935	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		21.40	
23 21 13 23-1936	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		22.43	
23 21 13 23-1937	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		24.61	
23 21 13 23-1938	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		25.23	
23 21 13 23-1939	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		29.46	
23 21 13 23-1940	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		32.33	
23 21 13 23-1941	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		39.69	
23 21 13 23-1942	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		40.19	
23 21 13 23-1943	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		49.86	
23 21 13 23-1944	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		53.58	
23 21 13 23-1945	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		72.65	
23 21 13 23-1946	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		90.97	
23 21 13 23-1947	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		107.45	
23 21 13 23-1948	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		150.20	
23 21 13 23-1949	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		199.84	
23 21 13 23-1950	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		236.35	
23 21 13 23-1951	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		349.26	
23 21 13 23-1952	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"		477.51	
23 21 13 23-1953 Copper Grooved-Joint Pipe Fittings (23 21 13 23)					
Note: Couplings are not included with fittings.					
23 21 13 23-1954 Grooved Fittings (23 21 13 23-1953)					
23 21 13 23-1955 Grooved 90 Degree Elbows (23 21 13 23-1954)					
23 21 13 23-1956	EA	2" Copper 90 Degree Elbow, Grooved.....	53.23		16.72
23 21 13 23-1957	EA	2-1/2" Copper 90 Degree Elbow, Grooved.....	62.31		20.41
23 21 13 23-1958	EA	3" Copper 90 Degree Elbow, Grooved.....	79.89		24.72
23 21 13 23-1959	EA	4" Copper 90 Degree Elbow, Grooved.....	136.50		32.61
23 21 13 23-1960	EA	5" Copper 90 Degree Elbow, Grooved.....	285.36		40.82
23 21 13 23-1961	EA	6" Copper 90 Degree Elbow, Grooved.....	432.53		53.43
23 21 13 23-1962	EA	8" Copper 90 Degree Elbow, Grooved.....	739.37		63.59
23 21 13 23-1963 Grooved 45 Degree Elbows (23 21 13 23-1954)					
23 21 13 23-1964	EA	2" Copper 45 Degree Elbow, Grooved.....	53.23		16.72
23 21 13 23-1965	EA	2-1/2" Copper 45 Degree Elbow, Grooved.....	62.31		20.41
23 21 13 23-1966	EA	3" Copper 45 Degree Elbow, Grooved.....	79.89		24.72
23 21 13 23-1967	EA	4" Copper 45 Degree Elbow, Grooved.....	136.50		32.61
23 21 13 23-1968	EA	5" Copper 45 Degree Elbow, Grooved.....	285.36		40.82
23 21 13 23-1969	EA	6" Copper 45 Degree Elbow, Grooved.....	432.53		53.43
23 21 13 23-1970	EA	8" Copper 45 Degree Elbow, Grooved.....	739.37		63.59
23 21 13 23-1971 Grooved Tees (23 21 13 23-1954)					
23 21 13 23-1972	EA	2" Copper Tee, Grooved.....	82.23		24.62
23 21 13 23-1973	EA	2-1/2" Copper Tee, Grooved.....	95.57		30.26
23 21 13 23-1974	EA	3" Copper Tee, Grooved.....	126.91		37.13
23 21 13 23-1975	EA	4" Copper Tee, Grooved.....	212.59		48.00
23 21 13 23-1976	EA	5" Copper Tee, Grooved.....	454.22		62.77
23 21 13 23-1977	EA	6" Copper Tee, Grooved.....	563.51		78.56
23 21 13 23-1978	EA	8" Copper Tee, Grooved.....	917.19		95.38
23 21 13 23-1979 Grooved Reducing Tees (23 21 13 23-1954)					
23 21 13 23-1980	EA	2-1/2" Copper Tee, Reducing, Grooved.....	113.48		30.26
23 21 13 23-1981	EA	3" Copper Tee, Reducing, Grooved.....	136.80		37.13
23 21 13 23-1982	EA	4" Copper Tee, Reducing, Grooved.....	249.84		48.10
23 21 13 23-1983	EA	5" Copper Tee, Reducing, Grooved.....	596.89		62.87
23 21 13 23-1984	EA	6" Copper Tee, Reducing, Grooved.....	732.84		78.56

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1985 Grooved X Cup Reducing Tees (23 21 13 23-1954)		
23 21 13 23-1986 EA 2" Copper Tee, Reducing, Grooved X Cup.....	91.72	24.62
23 21 13 23-1987 EA 2-1/2" Copper Tee, Reducing, Grooved X Cup.....	113.58	30.26
23 21 13 23-1988 EA 3" Copper Tee, Reducing, Grooved X Cup.....	136.80	37.13
23 21 13 23-1989 EA 4" Copper Tee, Reducing, Grooved X Cup.....	249.84	48.00
23 21 13 23-1990 Grooved Flanged Adapter Nipples (23 21 13 23-1954)		
23 21 13 23-1991 EA 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	140.00	18.16
23 21 13 23-1992 EA 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	152.20	22.05
23 21 13 23-1993 EA 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	165.73	26.36
23 21 13 23-1994 EA 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	195.05	35.49
23 21 13 23-1995 EA 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	252.96	42.98
23 21 13 23-1996 EA 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	298.25	58.05
23 21 13 23-1997 Grooved Concentric Reducers (23 21 13 23-1954)		
23 21 13 23-1998 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved.....	66.19	18.67
23 21 13 23-1999 EA 3" x 2" Copper Concentric Reducer, Grooved.....	70.30	20.82
23 21 13 23-2000 EA 3" x 2-1/2" Copper Concentric Reducer, Grooved.....	78.25	24.72
23 21 13 23-2001 EA 4" x 2" Copper Concentric Reducer, Grooved.....	109.62	24.92
23 21 13 23-2002 EA 4" x 2-1/2" Copper Concentric Reducer, Grooved.....	113.21	26.67
23 21 13 23-2003 EA 4" x 3" Copper Concentric Reducer, Grooved.....	117.31	28.72
23 21 13 23-2004 EA 5" x 3" Copper Concentric Reducer, Grooved.....	235.88	32.82
23 21 13 23-2005 EA 5" x 4" Copper Concentric Reducer, Grooved.....	244.08	36.92
23 21 13 23-2006 EA 6" x 3" Copper Concentric Reducer, Grooved.....	262.29	38.98
23 21 13 23-2007 EA 6" x 4" Copper Concentric Reducer, Grooved.....	270.48	43.08
23 21 13 23-2008 EA 6" x 5" Copper Concentric Reducer, Grooved.....	278.70	47.18
23 21 13 23-2009 EA 8" x 6" Copper Concentric Reducer, Grooved.....	441.26	58.46
23 21 13 23-2010 Grooved X Cup Concentric Reducers (23 21 13 23-1954)		
23 21 13 23-2011 EA 2" x 1" Copper Concentric Reducer, Grooved X Cup.....	50.05	13.13
23 21 13 23-2012 EA 2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	51.07	13.64
23 21 13 23-2013 EA 2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	54.21	15.18
23 21 13 23-2014 EA 2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup.....	58.59	14.67
23 21 13 23-2015 EA 2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	59.61	15.18
23 21 13 23-2016 EA 2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	62.62	16.72
23 21 13 23-2017 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup.....	66.72	18.67
23 21 13 23-2018 EA 3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	73.84	18.67
23 21 13 23-2019 EA 3" x 2" Copper Concentric Reducer, Grooved X Cup.....	77.95	20.82
23 21 13 23-2020 EA 4" x 2" Copper Concentric Reducer, Grooved X Cup.....	118.36	24.82
23 21 13 23-2021 Grooved Standard Couplings (23 21 13 23-1954)		
23 21 13 23-2022 EA 2" Copper Standard Coupling, Grooved.....	29.43	8.41
23 21 13 23-2023 EA 2-1/2" Copper Standard Coupling, Grooved.....	34.86	10.25
23 21 13 23-2024 EA 3" Copper Standard Coupling, Grooved.....	40.53	12.20
23 21 13 23-2025 EA 4" Copper Standard Coupling, Grooved.....	57.48	16.41
23 21 13 23-2026 EA 5" Copper Standard Coupling, Grooved.....	83.47	20.41
23 21 13 23-2027 EA 6" Copper Standard Coupling, Grooved.....	110.38	26.67
23 21 13 23-2028 EA 8" Copper Standard Coupling, Grooved.....	152.17	31.80
23 21 13 23-2029 Grooved Caps (23 21 13 23-1954)		
23 21 13 23-2030 EA 2" Copper Cap, Grooved.....	30.21	8.41
23 21 13 23-2031 EA 2-1/2" Copper Cap, Grooved.....	35.57	10.25
23 21 13 23-2032 EA 3" Copper Cap, Grooved.....	43.44	12.20
23 21 13 23-2033 EA 4" Copper Cap, Grooved.....	71.09	16.31
23 21 13 23-2034 EA 5" Copper Cap, Grooved.....	219.98	20.41
23 21 13 23-2035 EA 6" Copper Cap, Grooved.....	375.31	26.67
23 21 13 23-2036 Grooved Valves (23 21 13 23-1953)		
23 21 13 23-2037 Grooved Butterfly Valves, Standard Trim, Without Operator (23 21 13 23-2036)		
Note: Copper body.		
23 21 13 23-2038 EA 2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	335.90	10.98
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2039 EA 3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	384.20	16.31
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2040 EA 4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	507.81	21.43
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2041 EA 6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	681.27	35.18
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2042 EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	757.09	49.43
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2043 Grooved Butterfly Valves, Standard Trim, With Operator (23 21 13 23-2036)		
Note: Copper body.		
23 21 13 23-2044 EA 2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	408.98	10.98
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2045 EA 3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	457.32	16.31
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2046 EA 4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	580.94	21.43
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2047 EA 6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	754.45	35.18
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2048 EA 8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	830.22	49.43
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2049 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23)		
Note: Socket or back weld.		
23 21 13 23-2050 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2049)		
Note: ASTM D1785 with D2466 fittings.		
23 21 13 23-2051 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2050)		
23 21 13 23-2052 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	4.61	2.98
For Work In Restricted Working Space, Add	1.32	
23 21 13 23-2053 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	5.77	3.69
For Work In Restricted Working Space, Add	1.65	
23 21 13 23-2054 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	6.24	3.90
For Work In Restricted Working Space, Add	1.76	
23 21 13 23-2055 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	6.81	4.20
For Work In Restricted Working Space, Add	1.89	
23 21 13 23-2056 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	6.99	4.30
For Work In Restricted Working Space, Add	1.92	
23 21 13 23-2057 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	8.46	5.13
For Work In Restricted Working Space, Add	2.30	
23 21 13 23-2058 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	10.36	6.05
For Work In Restricted Working Space, Add	2.74	
23 21 13 23-2059 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	12.64	7.39
For Work In Restricted Working Space, Add	3.31	
23 21 13 23-2060 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	18.87	11.08
For Work In Restricted Working Space, Add	4.97	
23 21 13 23-2061 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	26.11	14.67
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-2062 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	32.45	17.54
For Work In Restricted Working Space, Add	7.89	
23 21 13 23-2063 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	48.16	19.59
For Work In Restricted Working Space, Add	8.80	
23 21 13 23-2064 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2050)		
23 21 13 23-2065 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	16.83	11.08
For Work In Restricted Working Space, Add	4.97	
23 21 13 23-2066 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	22.45	14.67
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-2067 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	28.04	18.26
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-2068 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	39.97	25.85
For Work In Restricted Working Space, Add	11.61	
23 21 13 23-2069 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	44.99	29.12
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-2070 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	57.56	37.03
For Work In Restricted Working Space, Add	16.63	
23 21 13 23-2071 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	88.50	54.77
For Work In Restricted Working Space, Add	24.62	
23 21 13 23-2072 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	115.71	72.00
For Work In Restricted Working Space, Add	32.39	
23 21 13 23-2073 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	142.05	85.54
For Work In Restricted Working Space, Add	38.46	
23 21 13 23-2074 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	179.66	97.75
For Work In Restricted Working Space, Add	43.96	
23 21 13 23-2075 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	256.26	114.05
For Work In Restricted Working Space, Add	51.28	
23 21 13 23-2076 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	382.73	170.05
For Work In Restricted Working Space, Add	76.46	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2077 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2050)		
23 21 13 23-2078 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	16.96	11.08
For Work In Restricted Working Space, Add	4.97	
23 21 13 23-2079 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	22.72	14.67
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-2080 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	28.43	18.26
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-2081 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	40.22	25.85
For Work In Restricted Working Space, Add	11.61	
23 21 13 23-2082 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	45.54	29.12
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-2083 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	57.92	37.03
For Work In Restricted Working Space, Add	16.63	
23 21 13 23-2084 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	88.50	54.77
For Work In Restricted Working Space, Add	24.62	
23 21 13 23-2085 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	118.02	72.00
For Work In Restricted Working Space, Add	32.39	
23 21 13 23-2086 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	146.27	85.54
For Work In Restricted Working Space, Add	38.46	
23 21 13 23-2087 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	180.04	97.75
For Work In Restricted Working Space, Add	43.96	
23 21 13 23-2088 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	251.60	114.05
For Work In Restricted Working Space, Add	51.28	
23 21 13 23-2089 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	382.73	170.05
For Work In Restricted Working Space, Add	76.46	
23 21 13 23-2090 Schedule 40 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2050)		
23 21 13 23-2091 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	27.68	18.26
For Work In Restricted Working Space, Add	8.21	
23 21 13 23-2092 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees	33.44	22.05
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-2093 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees	44.33	29.12
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-2094 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees	56.54	37.03
For Work In Restricted Working Space, Add	16.63	
23 21 13 23-2095 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	67.52	44.10
For Work In Restricted Working Space, Add	19.85	
23 21 13 23-2096 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees	84.01	54.77
For Work In Restricted Working Space, Add	24.62	
23 21 13 23-2097 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	114.47	72.00
For Work In Restricted Working Space, Add	32.39	
23 21 13 23-2098 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees	136.73	85.54
For Work In Restricted Working Space, Add	38.46	
23 21 13 23-2099 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees	186.38	114.05
For Work In Restricted Working Space, Add	51.28	
23 21 13 23-2100 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees	272.61	147.07
For Work In Restricted Working Space, Add	66.17	
23 21 13 23-2101 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees	394.24	182.46
For Work In Restricted Working Space, Add	82.05	
23 21 13 23-2102 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees	881.22	272.61
For Work In Restricted Working Space, Add	122.62	
23 21 13 23-2103 Schedule 40 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2050)		
23 21 13 23-2104 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	34.71	22.77
For Work In Restricted Working Space, Add	10.26	
23 21 13 23-2105 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	41.92	27.59
For Work In Restricted Working Space, Add	12.41	
23 21 13 23-2106 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses	55.64	36.41
For Work In Restricted Working Space, Add	16.37	
23 21 13 23-2107 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	71.03	46.25
For Work In Restricted Working Space, Add	20.79	
23 21 13 23-2108 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	84.84	55.18
For Work In Restricted Working Space, Add	24.82	
23 21 13 23-2109 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	105.63	68.41
For Work In Restricted Working Space, Add	30.77	
23 21 13 23-2110 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	145.15	90.05
For Work In Restricted Working Space, Add	40.49	
23 21 13 23-2111 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses	173.60	106.87
For Work In Restricted Working Space, Add	48.08	
23 21 13 23-2112 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	237.88	142.56
For Work In Restricted Working Space, Add	64.10	
23 21 13 23-2113 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses	357.17	183.79
For Work In Restricted Working Space, Add	82.67	
23 21 13 23-2114 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses	530.97	227.89
For Work In Restricted Working Space, Add	102.51	
23 21 13 23-2115 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses	1,251.83	340.92
For Work In Restricted Working Space, Add	153.35	
23 21 13 23-2116 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2050)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2117 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	22.31 6.62	14.67
23 21 13 23-2118 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	27.87 8.21	18.26
23 21 13 23-2119 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	39.39 11.61	25.85
23 21 13 23-2120 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	44.36 13.09	29.12
23 21 13 23-2121 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	56.65 16.63	37.03
23 21 13 23-2122 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	83.98 24.62	54.77
23 21 13 23-2123 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	110.85 32.39	72.00
23 21 13 23-2124 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	134.74 38.46	85.54
23 21 13 23-2125 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	162.76 43.96	97.75
23 21 13 23-2126 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	264.30 51.28	114.05
23 21 13 23-2127 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	302.22 59.57	132.41
23 21 13 23-2128 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2050)		
23 21 13 23-2129 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	17.13 4.97	11.08
23 21 13 23-2130 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	22.64 6.62	14.67
23 21 13 23-2131 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	28.07 8.21	18.26
23 21 13 23-2132 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	39.80 11.61	25.85
23 21 13 23-2133 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	44.91 13.09	29.12
23 21 13 23-2134 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	57.18 16.63	37.03
23 21 13 23-2135 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	84.56 24.62	54.77
23 21 13 23-2136 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	110.85 32.39	72.00
23 21 13 23-2137 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	134.74 38.46	85.54
23 21 13 23-2138 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2050)		
23 21 13 23-2139 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	17.32 4.97	11.08
23 21 13 23-2140 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	22.83 6.62	14.67
23 21 13 23-2141 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	28.45 8.21	18.26
23 21 13 23-2142 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	40.02 11.61	25.85
23 21 13 23-2143 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	45.40 13.09	29.12
23 21 13 23-2144 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	57.62 16.63	37.03
23 21 13 23-2145 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	85.05 24.62	54.77
23 21 13 23-2146 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	112.37 32.39	72.00
23 21 13 23-2147 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	133.86 38.46	85.54
23 21 13 23-2148 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2050)		
23 21 13 23-2149 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	16.83 4.97	11.08
23 21 13 23-2150 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	22.42 6.62	14.67
23 21 13 23-2151 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	27.76 8.21	18.26
23 21 13 23-2152 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	39.36 11.61	25.85
23 21 13 23-2153 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	44.41 13.09	29.12
23 21 13 23-2154 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	56.49 16.63	37.03
23 21 13 23-2155 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	86.60 24.62	54.77

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2156 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add	114.08 32.39	72.00
23 21 13 23-2157 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add	138.33 38.46	85.54
23 21 13 23-2158 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2050)		
23 21 13 23-2159 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... For Work In Restricted Working Space, Add	24.57 6.77	15.08
23 21 13 23-2160 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2050)		
23 21 13 23-2161 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	16.72 4.97	11.08
23 21 13 23-2162 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	22.28 6.62	14.67
23 21 13 23-2163 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	27.76 8.21	18.26
23 21 13 23-2164 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	39.25 11.61	25.85
23 21 13 23-2165 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	44.25 13.09	29.12
23 21 13 23-2166 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	56.38 16.63	37.03
23 21 13 23-2167 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	84.15 24.62	54.77
23 21 13 23-2168 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	111.24 32.39	72.00
23 21 13 23-2169 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	132.98 38.46	85.54
23 21 13 23-2170 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	161.63 43.96	97.75
23 21 13 23-2171 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	199.17 51.28	114.05
23 21 13 23-2172 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add	312.79 54.97	122.25
23 21 13 23-2173 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2050)		
23 21 13 23-2174 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	28.74 8.21	18.26
23 21 13 23-2175 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	37.74 9.92	22.05
23 21 13 23-2176 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	48.85 13.09	29.12
23 21 13 23-2177 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	68.12 16.63	37.03
23 21 13 23-2178 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	79.40 19.85	44.10
23 21 13 23-2179 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	99.89 24.62	54.77
23 21 13 23-2180 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	140.32 32.39	72.00
23 21 13 23-2181 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	162.50 38.46	85.54
23 21 13 23-2182 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	238.95 51.28	114.05
23 21 13 23-2183 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	311.63 66.14	147.07
23 21 13 23-2184 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	423.75 82.01	182.36
23 21 13 23-2185 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add	587.34 101.83	226.35
23 21 13 23-2186 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2050)		
23 21 13 23-2187 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	16.94 5.02	11.19
23 21 13 23-2188 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	22.34 6.62	14.67
23 21 13 23-2189 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	27.79 8.21	18.26
23 21 13 23-2190 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... For Work In Restricted Working Space, Add	39.71 11.73	26.11
23 21 13 23-2191 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... For Work In Restricted Working Space, Add	44.30 13.09	29.12
23 21 13 23-2192 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	56.24 16.63	37.03
23 21 13 23-2193 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	84.67 24.62	54.77
23 21 13 23-2194 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	110.80 32.39	72.00

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2195 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	134.72 38.46	85.54
23 21 13 23-2196 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	162.10 43.96	97.75
23 21 13 23-2197 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	223.04 51.28	114.05
23 21 13 23-2198 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps For Work In Restricted Working Space, Add	376.01 54.97	122.25
23 21 13 23-2199 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2050)		
23 21 13 23-2200 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges For Work In Restricted Working Space, Add	32.89 8.21	18.26
23 21 13 23-2201 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	41.57 9.92	22.05
23 21 13 23-2202 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	53.10 13.09	29.12
23 21 13 23-2203 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	65.17 16.63	37.03
23 21 13 23-2204 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	76.12 19.85	44.10
23 21 13 23-2205 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	95.28 24.62	54.77
23 21 13 23-2206 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	128.39 32.39	72.00
23 21 13 23-2207 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	150.76 38.46	85.54
23 21 13 23-2208 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	199.50 51.28	114.05
23 21 13 23-2209 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	265.38 66.14	147.07
23 21 13 23-2210 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	374.66 82.01	182.36
23 21 13 23-2211 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges For Work In Restricted Working Space, Add	567.23 101.67	226.05
23 21 13 23-2212 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2049) Note: ASTM D1785 with D2467 fittings.		
23 21 13 23-2213 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2212)		
23 21 13 23-2214 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	4.67 1.32	2.98
23 21 13 23-2215 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	5.84 1.65	3.69
23 21 13 23-2216 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	7.09 1.98	4.41
23 21 13 23-2217 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	8.39 2.31	5.13
23 21 13 23-2218 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	9.62 2.64	5.85
23 21 13 23-2219 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	12.21 3.31	7.39
23 21 13 23-2220 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	13.89 3.64	8.10
23 21 13 23-2221 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	15.57 3.97	8.82
23 21 13 23-2222 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	19.98 4.97	11.08
23 21 13 23-2223 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	28.58 6.62	14.67
23 21 13 23-2224 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	36.23 7.89	17.54
23 21 13 23-2225 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe For Work In Restricted Working Space, Add	58.91 8.50	18.87
23 21 13 23-2226 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2212)		
23 21 13 23-2227 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	17.54 4.97 2.48	11.08
23 21 13 23-2228 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	23.36 6.62 3.31	14.67
23 21 13 23-2229 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	29.45 8.21 4.10	18.26
23 21 13 23-2230 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	41.48 11.61 5.81	25.85
23 21 13 23-2231 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	46.62 13.09 6.55	29.12

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2232 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	59.05 16.63 8.32	37.03
23 21 13 23-2233 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	90.51 24.62 12.31	54.77
23 21 13 23-2234 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	117.47 32.39 16.19	72.00
23 21 13 23-2235 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	142.66 38.46 19.23	85.54
23 21 13 23-2236 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	198.71 43.96 21.98	97.75
23 21 13 23-2237 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	284.38 51.28 25.64	114.05
23 21 13 23-2238 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	414.48 85.99 42.99	191.18
23 21 13 23-2239 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2212)		
23 21 13 23-2240 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	18.45 4.97 2.48	11.08
23 21 13 23-2241 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	24.95 6.62 3.31	14.67
23 21 13 23-2242 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	31.71 8.21 4.10	18.26
23 21 13 23-2243 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	44.27 11.61 5.81	25.85
23 21 13 23-2244 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	50.20 13.09 6.55	29.12
23 21 13 23-2245 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	63.96 16.63 8.32	37.03
23 21 13 23-2246 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	99.97 24.62 12.31	54.77
23 21 13 23-2247 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	129.77 32.39 16.19	72.00
23 21 13 23-2248 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	167.50 38.46 19.23	85.54
23 21 13 23-2249 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	195.98 43.96 21.98	97.75
23 21 13 23-2250 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	278.18 51.28 25.64	114.05
23 21 13 23-2251 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows For Work In Restricted Working Space, Add For Threaded Fittings, Add	407.51 85.99 42.99	191.18
23 21 13 23-2252 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2212)		
23 21 13 23-2253 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	28.81 7.79 3.90	17.33
23 21 13 23-2254 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	36.06 9.92 4.96	22.05
23 21 13 23-2255 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	47.36 13.09 6.55	29.12
23 21 13 23-2256 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	65.72 16.63 8.32	37.03
23 21 13 23-2257 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	76.45 19.85 9.93	44.10
23 21 13 23-2258 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	94.92 24.62 12.31	54.77
23 21 13 23-2259 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees For Work In Restricted Working Space, Add For Threaded Fittings, Add	121.97 32.39 16.19	72.00

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2260 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	145.69 38.46 19.23	85.54
23 21 13 23-2261 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	191.20 51.28 25.64	114.05
23 21 13 23-2262 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	289.79 66.17 33.08	147.07
23 21 13 23-2263 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	434.06 82.05 41.03	182.46
23 21 13 23-2264 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	881.25 122.62 61.31	272.61
23 21 13 23-2265 Schedule 80 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2212)		
23 21 13 23-2266 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	36.91 9.74 4.87	21.64
23 21 13 23-2267 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	46.03 12.41 6.20	27.59
23 21 13 23-2268 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	60.39 16.37 8.18	36.41
23 21 13 23-2269 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	85.42 20.79 10.40	46.25
23 21 13 23-2270 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	98.84 24.82 12.41	55.18
23 21 13 23-2271 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	122.74 30.77 15.38	68.41
23 21 13 23-2272 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	156.91 40.49 20.24	90.05
23 21 13 23-2273 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	187.65 48.08 24.04	106.87
23 21 13 23-2274 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	245.45 64.10 32.05	142.56
23 21 13 23-2275 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	384.10 82.67 41.34	183.79
23 21 13 23-2276 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	593.39 102.51 51.25	227.89
23 21 13 23-2277 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses For Work In Restricted Working Space, Add For Threaded Fittings, Add	1,251.88 153.35 76.68	340.92
23 21 13 23-2278 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2212)		
23 21 13 23-2279 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	22.64 6.62 3.31	14.67
23 21 13 23-2280 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	29.03 8.21 4.10	18.26
23 21 13 23-2281 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	41.35 11.61 5.81	25.85
23 21 13 23-2282 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	47.25 13.09 6.55	29.12
23 21 13 23-2283 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	60.60 16.63 8.32	37.03
23 21 13 23-2284 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	90.98 24.62 12.31	54.77
23 21 13 23-2285 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	122.16 32.39 16.19	72.00
23 21 13 23-2286 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	147.89 38.46 19.23	85.54
23 21 13 23-2287 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	168.35 43.96 21.98	97.75

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2288 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	219.40 51.28 25.64	114.05
23 21 13 23-2289 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	302.23 59.57 29.79	132.41
23 21 13 23-2290 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2212)		
23 21 13 23-2291 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	16.74 4.97 2.48	11.08
23 21 13 23-2292 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	23.14 6.62 3.31	14.67
23 21 13 23-2293 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	29.03 8.21 4.10	18.26
23 21 13 23-2294 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	42.12 11.61 5.81	25.85
23 21 13 23-2295 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	47.94 13.09 6.55	29.12
23 21 13 23-2296 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	60.71 16.63 8.32	37.03
23 21 13 23-2297 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	93.19 24.62 12.31	54.77
23 21 13 23-2298 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	128.58 32.39 16.19	72.00
23 21 13 23-2299 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts For Work In Restricted Working Space, Add For Threaded Fittings, Add	159.91 38.46 19.23	85.54
23 21 13 23-2300 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2212)		
23 21 13 23-2301 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	18.89 4.97 2.48	11.08
23 21 13 23-2302 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	24.65 6.62 3.31	14.67
23 21 13 23-2303 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	31.87 8.21 4.10	18.26
23 21 13 23-2304 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	43.99 11.61 5.81	25.85
23 21 13 23-2305 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	51.25 13.09 6.55	29.12
23 21 13 23-2306 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	65.36 16.63 8.32	37.03
23 21 13 23-2307 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	93.35 24.62 12.31	54.77
23 21 13 23-2308 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	120.50 32.39 16.19	72.00
23 21 13 23-2309 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	150.51 38.46 19.23	85.54
23 21 13 23-2310 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2212)		
23 21 13 23-2311 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	18.26 4.97 2.48	11.08
23 21 13 23-2312 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	24.60 6.62 3.31	14.67
23 21 13 23-2313 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	31.10 8.21 4.10	18.26
23 21 13 23-2314 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters For Work In Restricted Working Space, Add For Threaded Fittings, Add	44.79 11.61 5.81	25.85

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2315 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters For Work In Restricted Working Space, Add For Threaded Fittings, Add	51.11 13.09 6.55	29.12
23 21 13 23-2316 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	68.45 16.63 8.32	37.03
23 21 13 23-2317 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters For Work In Restricted Working Space, Add For Threaded Fittings, Add	102.61 24.62 12.31	54.77
23 21 13 23-2318 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	131.12 32.39 16.19	72.00
23 21 13 23-2319 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	168.02 38.46 19.23	85.54
23 21 13 23-2320 Schedule 80 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2212)		
23 21 13 23-2321 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	18.37 4.97 2.48	11.08
23 21 13 23-2322 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	24.51 6.62 3.31	14.67
23 21 13 23-2323 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	29.89 8.21 4.10	18.26
23 21 13 23-2324 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	42.59 11.61 5.81	25.85
23 21 13 23-2325 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	47.83 13.09 6.55	29.12
23 21 13 23-2326 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	59.91 16.63 8.32	37.03
23 21 13 23-2327 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	93.10 24.62 12.31	54.77
23 21 13 23-2328 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	120.67 32.39 16.19	72.00
23 21 13 23-2329 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	144.14 38.46 19.23	85.54
23 21 13 23-2330 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	180.79 43.96 21.98	97.75
23 21 13 23-2331 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	217.58 51.28 25.64	114.05
23 21 13 23-2332 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... For Work In Restricted Working Space, Add For Threaded Fittings, Add	321.06 54.97 27.48	122.25
23 21 13 23-2333 Schedule 80 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2212)		
23 21 13 23-2334 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	31.43 8.21 4.10	18.26
23 21 13 23-2335 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	37.79 9.92 4.96	22.05
23 21 13 23-2336 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	49.02 13.09 6.55	29.12
23 21 13 23-2337 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	68.89 16.63 8.32	37.03
23 21 13 23-2338 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	83.48 19.85 9.93	44.10
23 21 13 23-2339 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	105.51 24.62 12.31	54.77
23 21 13 23-2340 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	151.64 32.39 16.19	72.00
23 21 13 23-2341 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	184.51 38.46 19.23	85.54
23 21 13 23-2342 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Unions For Work In Restricted Working Space, Add For Threaded Fittings, Add	239.11 51.28 25.64	114.05

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2343	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Unions	311.63	147.07
		For Work In Restricted Working Space, Add	66.14	
		For Threaded Fittings, Add	33.07	
23 21 13 23-2344	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Unions	423.75	182.36
		For Work In Restricted Working Space, Add	82.01	
		For Threaded Fittings, Add	41.00	
23 21 13 23-2345	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Unions	586.81	226.05
		For Work In Restricted Working Space, Add	101.67	
		For Threaded Fittings, Add	50.84	
23 21 13 23-2346 Schedule 80 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2212)				
23 21 13 23-2347	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	19.11	11.08
		For Work In Restricted Working Space, Add	4.97	
		For Threaded Fittings, Add	2.48	
23 21 13 23-2348	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps	24.76	14.67
		For Work In Restricted Working Space, Add	6.62	
		For Threaded Fittings, Add	3.31	
23 21 13 23-2349	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Caps	32.15	18.26
		For Work In Restricted Working Space, Add	8.21	
		For Threaded Fittings, Add	4.10	
23 21 13 23-2350	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps	44.49	25.85
		For Work In Restricted Working Space, Add	11.61	
		For Threaded Fittings, Add	5.81	
23 21 13 23-2351	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	49.43	29.12
		For Work In Restricted Working Space, Add	13.09	
		For Threaded Fittings, Add	6.55	
23 21 13 23-2352	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Caps	64.12	37.03
		For Work In Restricted Working Space, Add	16.63	
		For Threaded Fittings, Add	8.32	
23 21 13 23-2353	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	99.89	54.77
		For Work In Restricted Working Space, Add	24.62	
		For Threaded Fittings, Add	12.31	
23 21 13 23-2354	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Caps	129.77	72.00
		For Work In Restricted Working Space, Add	32.39	
		For Threaded Fittings, Add	16.19	
23 21 13 23-2355	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Caps	163.28	85.54
		For Work In Restricted Working Space, Add	38.46	
		For Threaded Fittings, Add	19.23	
23 21 13 23-2356	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Caps	233.63	97.75
		For Work In Restricted Working Space, Add	43.96	
		For Threaded Fittings, Add	21.98	
23 21 13 23-2357	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Caps	290.61	114.05
		For Work In Restricted Working Space, Add	51.28	
		For Threaded Fittings, Add	25.64	
23 21 13 23-2358	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Caps	403.58	122.25
		For Work In Restricted Working Space, Add	54.97	
		For Threaded Fittings, Add	27.48	
23 21 13 23-2359 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2212)				
23 21 13 23-2360	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	35.26	18.26
		For Work In Restricted Working Space, Add	8.21	
		For Threaded Fittings, Add	4.10	
23 21 13 23-2361	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	41.57	22.05
		For Work In Restricted Working Space, Add	9.92	
		For Threaded Fittings, Add	4.96	
23 21 13 23-2362	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	53.10	29.12
		For Work In Restricted Working Space, Add	13.09	
		For Threaded Fittings, Add	6.55	
23 21 13 23-2363	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	65.17	37.03
		For Work In Restricted Working Space, Add	16.63	
		For Threaded Fittings, Add	8.32	
23 21 13 23-2364	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	76.12	44.10
		For Work In Restricted Working Space, Add	19.85	
		For Threaded Fittings, Add	9.93	
23 21 13 23-2365	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	95.28	54.77
		For Work In Restricted Working Space, Add	24.62	
		For Threaded Fittings, Add	12.31	
23 21 13 23-2366	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	128.39	72.00
		For Work In Restricted Working Space, Add	32.39	
		For Threaded Fittings, Add	16.19	
23 21 13 23-2367	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	150.76	85.54
		For Work In Restricted Working Space, Add	38.46	
		For Threaded Fittings, Add	19.23	
23 21 13 23-2368	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	199.50	114.05
		For Work In Restricted Working Space, Add	51.28	
		For Threaded Fittings, Add	25.64	
23 21 13 23-2369	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	265.38	147.07
		For Work In Restricted Working Space, Add	66.14	
		For Threaded Fittings, Add	33.07	
23 21 13 23-2370	EA	8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges	374.66	182.36
		For Work In Restricted Working Space, Add	82.01	
		For Threaded Fittings, Add	41.00	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2371 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges.....	567.23	226.05
For Work In Restricted Working Space, Add	101.67	
For Threaded Fittings, Add	50.84	
23 21 13 23-2372 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2049)		
Note: In place pipe.		
23 21 13 23-2373 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	5.57	
For Work In Restricted Working Space, Add	1.67	
23 21 13 23-2374 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	6.02	
For Work In Restricted Working Space, Add	1.81	
23 21 13 23-2375 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	6.77	
For Work In Restricted Working Space, Add	2.03	
23 21 13 23-2376 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	7.11	
For Work In Restricted Working Space, Add	2.13	
23 21 13 23-2377 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	7.52	
For Work In Restricted Working Space, Add	2.26	
23 21 13 23-2378 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	8.27	
For Work In Restricted Working Space, Add	2.48	
23 21 13 23-2379 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	8.91	
For Work In Restricted Working Space, Add	2.67	
23 21 13 23-2380 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	10.53	
For Work In Restricted Working Space, Add	3.16	
23 21 13 23-2381 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	14.21	
For Work In Restricted Working Space, Add	4.26	
23 21 13 23-2382 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	20.30	
For Work In Restricted Working Space, Add	6.09	
23 21 13 23-2383 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	27.08	
For Work In Restricted Working Space, Add	8.12	
23 21 13 23-2384 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe.....	33.10	
For Work In Restricted Working Space, Add	9.93	
23 21 13 23-2385 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2386 Small Diameter Tubing (23 21 13 23-2385)		
23 21 13 23-2387 Tubing (23 21 13 23-2386)		
23 21 13 23-2388 LF 1/4" Polyethylene Tubing.....	3.15	
For Work In Restricted Working Space, Add	0.93	
23 21 13 23-2389 LF 5/16" Polyethylene Tubing.....	3.25	
For Work In Restricted Working Space, Add	0.95	
23 21 13 23-2390 LF 3/8" Polyethylene Tubing.....	3.34	
For Work In Restricted Working Space, Add	0.97	
23 21 13 23-2391 LF 1/2" Polyethylene Tubing.....	3.57	
For Work In Restricted Working Space, Add	1.05	
23 21 13 23-2392 Chrome Plated Pipe (23 21 13 23)		
23 21 13 23-2393 Chrome Plated Nipples (23 21 13 23-2392)		
23 21 13 23-2394 Close (23 21 13 23-2393)		
23 21 13 23-2395 EA 1/4" Diameter Chrome Plated Nipple, Close.....	16.94	8.91
23 21 13 23-2396 EA 3/8" Diameter Chrome Plated Nipple, Close.....	17.15	9.70
23 21 13 23-2397 EA 1/2" Diameter Chrome Plated Nipple, Close.....	20.60	11.14
23 21 13 23-2398 EA 3/4" Diameter Chrome Plated Nipple, Close.....	26.59	14.15
23 21 13 23-2399 EA 1" Diameter Chrome Plated Nipple, Close.....	35.33	18.61
23 21 13 23-2400 EA 1-1/4" Diameter Chrome Plated Nipple, Close.....	49.78	25.97
23 21 13 23-2401 EA 1-1/2" Diameter Chrome Plated Nipple, Close.....	59.67	30.42
23 21 13 23-2402 EA 2" Diameter Chrome Plated Nipple, Close.....	75.76	37.89
23 21 13 23-2403 1-1/2" Nipples (23 21 13 23-2393)		
23 21 13 23-2404 EA 1/4" Diameter Chrome Plated Nipple, 1-1/2" Length.....	17.88	9.25
23 21 13 23-2405 EA 3/8" Diameter Chrome Plated Nipple, 1-1/2" Length.....	17.97	10.03
23 21 13 23-2406 EA 1/2" Diameter Chrome Plated Nipple, 1-1/2" Length.....	21.18	11.48
23 21 13 23-2407 EA 3/4" Diameter Chrome Plated Nipple, 1-1/2" Length.....	27.42	14.49
23 21 13 23-2408 2" Nipples (23 21 13 23-2393)		
23 21 13 23-2409 EA 1/4" Diameter Chrome Plated Nipple, 2" Length.....	18.60	9.70
23 21 13 23-2410 EA 3/8" Diameter Chrome Plated Nipple, 2" Length.....	18.61	10.36
23 21 13 23-2411 EA 1/2" Diameter Chrome Plated Nipple, 2" Length.....	22.37	11.92
23 21 13 23-2412 EA 3/4" Diameter Chrome Plated Nipple, 2" Length.....	28.50	14.82
23 21 13 23-2413 EA 1" Diameter Chrome Plated Nipple, 2" Length.....	37.09	19.27
23 21 13 23-2414 EA 1-1/4" Diameter Chrome Plated Nipple, 2" Length.....	52.26	26.74
23 21 13 23-2415 EA 1-1/2" Diameter Chrome Plated Nipple, 2" Length.....	62.45	31.20
23 21 13 23-2416 2-1/2" Nipples (23 21 13 23-2393)		
23 21 13 23-2417 EA 1/4" Diameter Chrome Plated Nipple, 2-1/2" Length.....	19.53	10.03
23 21 13 23-2418 EA 3/8" Diameter Chrome Plated Nipple, 2-1/2" Length.....	19.29	10.81

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2419 EA 1/2" Diameter Chrome Plated Nipple, 2-1/2" Length.....	23.23	12.26
23 21 13 23-2420 EA 3/4" Diameter Chrome Plated Nipple, 2-1/2" Length.....	29.20	15.27
23 21 13 23-2421 EA 1" Diameter Chrome Plated Nipple, 2-1/2" Length.....	38.00	19.73
23 21 13 23-2422 EA 1-1/4" Diameter Chrome Plated Nipple, 2-1/2" Length.....	54.35	27.07
23 21 13 23-2423 EA 1-1/2" Diameter Chrome Plated Nipple, 2-1/2" Length.....	65.14	31.54
23 21 13 23-2424 EA 2" Diameter Chrome Plated Nipple, 2-1/2" Length.....	81.89	39.00
23 21 13 23-2425 3" Nipples (23 21 13 23-2393)		
23 21 13 23-2426 EA 1/4" Diameter Chrome Plated Nipple, 3" Length.....	20.29	10.36
23 21 13 23-2427 EA 3/8" Diameter Chrome Plated Nipple, 3" Length.....	20.21	11.14
23 21 13 23-2428 EA 1/2" Diameter Chrome Plated Nipple, 3" Length.....	22.74	11.92
23 21 13 23-2429 EA 3/4" Diameter Chrome Plated Nipple, 3" Length.....	30.80	15.60
23 21 13 23-2430 EA 1" Diameter Chrome Plated Nipple, 3" Length.....	40.96	20.06
23 21 13 23-2431 EA 1-1/4" Diameter Chrome Plated Nipple, 3" Length.....	56.63	27.53
23 21 13 23-2432 EA 1-1/2" Diameter Chrome Plated Nipple, 3" Length.....	71.07	31.98
23 21 13 23-2433 EA 2" Diameter Chrome Plated Nipple, 3" Length.....	86.59	39.44
23 21 13 23-2434 3-1/2" Nipples (23 21 13 23-2393)		
23 21 13 23-2435 EA 1/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	21.14	10.81
23 21 13 23-2436 EA 3/8" Diameter Chrome Plated Nipple, 3-1/2" Length.....	21.55	11.48
23 21 13 23-2437 EA 1/2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	24.99	13.03
23 21 13 23-2438 EA 3/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	33.05	15.94
23 21 13 23-2439 EA 1" Diameter Chrome Plated Nipple, 3-1/2" Length.....	42.30	20.39
23 21 13 23-2440 EA 1-1/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	60.76	27.86
23 21 13 23-2441 EA 1-1/2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	73.06	32.32
23 21 13 23-2442 EA 2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	90.41	39.79
23 21 13 23-2443 4" Nipples (23 21 13 23-2393)		
23 21 13 23-2444 EA 1/4" Diameter Chrome Plated Nipple, 4" Length.....	21.97	11.14
23 21 13 23-2445 EA 3/8" Diameter Chrome Plated Nipple, 4" Length.....	22.15	11.92
23 21 13 23-2446 EA 1/2" Diameter Chrome Plated Nipple, 4" Length.....	24.81	12.59
23 21 13 23-2447 EA 3/4" Diameter Chrome Plated Nipple, 4" Length.....	34.11	16.38
23 21 13 23-2448 EA 1" Diameter Chrome Plated Nipple, 4" Length.....	43.58	20.84
23 21 13 23-2449 EA 1-1/4" Diameter Chrome Plated Nipple, 4" Length.....	63.99	28.19
23 21 13 23-2450 EA 1-1/2" Diameter Chrome Plated Nipple, 4" Length.....	76.85	32.65
23 21 13 23-2451 EA 2" Diameter Chrome Plated Nipple, 4" Length.....	95.00	40.12
23 21 13 23-2452 4-1/2" Nipples (23 21 13 23-2393)		
23 21 13 23-2453 EA 1/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	22.74	11.48
23 21 13 23-2454 EA 3/8" Diameter Chrome Plated Nipple, 4-1/2" Length.....	23.52	12.26
23 21 13 23-2455 EA 1/2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	27.11	13.71
23 21 13 23-2456 EA 3/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	35.30	16.71
23 21 13 23-2457 EA 1" Diameter Chrome Plated Nipple, 4-1/2" Length.....	47.28	21.17
23 21 13 23-2458 EA 1-1/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	67.10	28.64
23 21 13 23-2459 EA 1-1/2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	78.68	33.09
23 21 13 23-2460 EA 2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	99.25	40.56
23 21 13 23-2461 5" Nipples (23 21 13 23-2393)		
23 21 13 23-2462 EA 1/4" Diameter Chrome Plated Nipple, 5" Length.....	24.65	11.92
23 21 13 23-2463 EA 3/8" Diameter Chrome Plated Nipple, 5" Length.....	24.47	12.59
23 21 13 23-2464 EA 1/2" Diameter Chrome Plated Nipple, 5" Length.....	27.98	14.15
23 21 13 23-2465 EA 3/4" Diameter Chrome Plated Nipple, 5" Length.....	36.44	17.05
23 21 13 23-2466 EA 1" Diameter Chrome Plated Nipple, 5" Length.....	49.64	21.51
23 21 13 23-2467 EA 1-1/4" Diameter Chrome Plated Nipple, 5" Length.....	69.96	28.97
23 21 13 23-2468 EA 1-1/2" Diameter Chrome Plated Nipple, 5" Length.....	82.48	33.43
23 21 13 23-2469 EA 2" Diameter Chrome Plated Nipple, 5" Length.....	102.09	40.89
23 21 13 23-2470 5-1/2" Nipples (23 21 13 23-2393)		
23 21 13 23-2471 EA 1/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	25.45	12.26
23 21 13 23-2472 EA 3/8" Diameter Chrome Plated Nipple, 5-1/2" Length.....	25.28	13.03
23 21 13 23-2473 EA 1/2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	29.88	14.49
23 21 13 23-2474 EA 3/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	37.59	17.50
23 21 13 23-2475 EA 1" Diameter Chrome Plated Nipple, 5-1/2" Length.....	51.02	21.95
23 21 13 23-2476 EA 1-1/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	73.35	29.30
23 21 13 23-2477 EA 1-1/2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	85.54	33.77
23 21 13 23-2478 EA 2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	105.66	41.23
23 21 13 23-2479 6" Nipples (23 21 13 23-2393)		
23 21 13 23-2480 EA 1/4" Diameter Chrome Plated Nipple, 6" Length.....	26.32	12.59
23 21 13 23-2481 EA 3/8" Diameter Chrome Plated Nipple, 6" Length.....	25.89	13.38
23 21 13 23-2482 EA 1/2" Diameter Chrome Plated Nipple, 6" Length.....	30.73	14.82
23 21 13 23-2483 EA 3/4" Diameter Chrome Plated Nipple, 6" Length.....	38.58	17.83
23 21 13 23-2484 EA 1" Diameter Chrome Plated Nipple, 6" Length.....	54.61	22.29

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2485	EA	1-1/4" Diameter Chrome Plated Nipple, 6" Length.....	75.56	29.76
23 21 13 23-2486	EA	1-1/2" Diameter Chrome Plated Nipple, 6" Length.....	90.13	34.21
23 21 13 23-2487	EA	2" Diameter Chrome Plated Nipple, 6" Length.....	108.91	41.68
23 21 13 23-2488		8" Nipples (23 21 13 23-2393)		
23 21 13 23-2489	EA	3/8" Diameter Chrome Plated Nipple, 8" Length.....	29.40	14.15
23 21 13 23-2490	EA	1/2" Diameter Chrome Plated Nipple, 8" Length.....	39.25	15.60
23 21 13 23-2491	EA	3/4" Diameter Chrome Plated Nipple, 8" Length.....	47.41	18.61
23 21 13 23-2492	EA	1" Diameter Chrome Plated Nipple, 8" Length.....	61.68	23.06
23 21 13 23-2493	EA	1-1/4" Diameter Chrome Plated Nipple, 8" Length.....	86.42	30.42
23 21 13 23-2494	EA	1-1/2" Diameter Chrome Plated Nipple, 8" Length.....	104.16	34.88
23 21 13 23-2495	EA	2" Diameter Chrome Plated Nipple, 8" Length.....	127.79	42.35
23 21 13 23-2496		10" Nipples (23 21 13 23-2393)		
23 21 13 23-2497	EA	3/8" Diameter Chrome Plated Nipple, 10" Length.....	32.19	14.15
23 21 13 23-2498	EA	1/2" Diameter Chrome Plated Nipple, 10" Length.....	42.75	15.60
23 21 13 23-2499	EA	3/4" Diameter Chrome Plated Nipple, 10" Length.....	51.47	18.61
23 21 13 23-2500	EA	1" Diameter Chrome Plated Nipple, 10" Length.....	67.82	23.06
23 21 13 23-2501	EA	1-1/4" Diameter Chrome Plated Nipple, 10" Length.....	99.58	30.42
23 21 13 23-2502	EA	1-1/2" Diameter Chrome Plated Nipple, 10" Length.....	114.19	34.88
23 21 13 23-2503	EA	2" Diameter Chrome Plated Nipple, 10" Length.....	143.80	42.35
23 21 13 23-2504		12" Nipples (23 21 13 23-2393)		
23 21 13 23-2505	EA	3/8" Diameter Chrome Plated Nipple, 12" Length.....	35.80	15.60
23 21 13 23-2506	EA	1/2" Diameter Chrome Plated Nipple, 12" Length.....	44.76	16.38
23 21 13 23-2507	EA	3/4" Diameter Chrome Plated Nipple, 12" Length.....	55.88	19.27
23 21 13 23-2508	EA	1" Diameter Chrome Plated Nipple, 12" Length.....	77.60	24.51
23 21 13 23-2509	EA	1-1/4" Diameter Chrome Plated Nipple, 12" Length.....	109.93	31.98
23 21 13 23-2510	EA	2" Diameter Chrome Plated Nipple, 12" Length.....	158.93	43.91
23 21 13 23-2511		18" Nipples (23 21 13 23-2393)		
23 21 13 23-2512	EA	3/8" Diameter Chrome Plated Nipple, 18" Length.....	42.81	16.38
23 21 13 23-2513		24" Nipples (23 21 13 23-2393)		
23 21 13 23-2514	EA	3/8" Diameter Chrome Plated Nipple, 24" Length.....	49.55	17.05
23 21 13 23-2515		30" Nipples (23 21 13 23-2393)		
23 21 13 23-2516	EA	3/8" Diameter Chrome Plated Nipple, 30" Length.....	54.06	17.83
23 21 13 23-2517		36" Nipples (23 21 13 23-2393)		
23 21 13 23-2518	EA	3/8" Diameter Chrome Plated Nipple, 36" Length.....	58.59	18.61
23 21 13 23-2519		Chrome Plated Fittings (23 21 13 23-2392)		
23 21 13 23-2520		Chrome Plated 90 Degree Elbows (23 21 13 23-2519)		
23 21 13 23-2521	EA	1/4" 90 Degree Elbow, Chrome Plated.....	20.28	10.36
23 21 13 23-2522	EA	3/8" 90 Degree Elbow, Chrome Plated.....	21.09	11.14
23 21 13 23-2523	EA	1/2" 90 Degree Elbow, Chrome Plated.....	23.24	11.92
23 21 13 23-2524	EA	3/4" 90 Degree Elbow, Chrome Plated.....	30.00	15.60
23 21 13 23-2525	EA	1" 90 Degree Elbow, Chrome Plated.....	39.87	20.06
23 21 13 23-2526	EA	1-1/4" 90 Degree Elbow, Chrome Plated.....	58.76	27.53
23 21 13 23-2527	EA	1-1/2" 90 Degree Elbow, Chrome Plated.....	69.78	31.98
23 21 13 23-2528	EA	2" 90 Degree Elbow, Chrome Plated.....	92.20	39.44
23 21 13 23-2529		Chrome Plated Street 90 Degree Elbows (23 21 13 23-2519)		
23 21 13 23-2530	EA	1/4" Street 90 Degree Elbow, Chrome Plated.....	22.24	10.36
23 21 13 23-2531	EA	3/8" Street 90 Degree Elbow, Chrome Plated.....	23.24	11.14
23 21 13 23-2532	EA	1/2" Street 90 Degree Elbow, Chrome Plated.....	24.74	11.92
23 21 13 23-2533	EA	3/4" Street 90 Degree Elbow, Chrome Plated.....	32.19	15.60
23 21 13 23-2534	EA	1" Street 90 Degree Elbow, Chrome Plated.....	43.94	20.06
23 21 13 23-2535	EA	1-1/4" Street 90 Degree Elbow, Chrome Plated.....	62.93	27.53
23 21 13 23-2536	EA	1-1/2" Street 90 Degree Elbow, Chrome Plated.....	75.62	31.98
23 21 13 23-2537	EA	2" Street 90 Degree Elbow, Chrome Plated.....	105.96	39.44
23 21 13 23-2538		Chrome Plated 45 Degree Elbows (23 21 13 23-2519)		
23 21 13 23-2539	EA	1/4" 45 Degree Elbow, Chrome Plated.....	20.71	10.36
23 21 13 23-2540	EA	3/8" 45 Degree Elbow, Chrome Plated.....	21.71	11.14
23 21 13 23-2541	EA	1/2" 45 Degree Elbow, Chrome Plated.....	23.69	11.92
23 21 13 23-2542	EA	3/4" 45 Degree Elbow, Chrome Plated.....	31.67	15.60

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2543 EA 1" 45 Degree Elbow, Chrome Plated	41.76	20.06
23 21 13 23-2544 EA 1-1/4" 45 Degree Elbow, Chrome Plated	61.02	27.53
23 21 13 23-2545 EA 1-1/2" 45 Degree Elbow, Chrome Plated	72.80	31.98
23 21 13 23-2546 EA 2" 45 Degree Elbow, Chrome Plated	100.52	39.44
23 21 13 23-2547 Chrome Plated Street 45 Degree Elbows (23 21 13 23-2519)		
23 21 13 23-2548 EA 1/2" Street 45 Degree Elbow, Chrome Plated	26.38	11.92
23 21 13 23-2549 Chrome Plated Couplings (23 21 13 23-2519)		
23 21 13 23-2550 EA 1/4" Coupling, Chrome Plated	20.01	10.36
23 21 13 23-2551 EA 3/8" Coupling, Chrome Plated	21.12	11.14
23 21 13 23-2552 EA 1/2" Coupling, Chrome Plated	23.35	11.92
23 21 13 23-2553 EA 3/4" Coupling, Chrome Plated	30.03	15.60
23 21 13 23-2554 EA 1" Coupling, Chrome Plated	38.94	20.06
23 21 13 23-2555 EA 1-1/4" Coupling, Chrome Plated	55.37	27.53
23 21 13 23-2556 EA 1-1/2" Coupling, Chrome Plated	66.94	31.98
23 21 13 23-2557 EA 2" Coupling, Chrome Plated	88.74	39.44
23 21 13 23-2558 Chrome Plated Unions (23 21 13 23-2519)		
23 21 13 23-2559 EA 1/4" Union, Chrome Plated	28.49	11.92
23 21 13 23-2560 EA 3/8" Union, Chrome Plated	29.61	12.59
23 21 13 23-2561 EA 1/2" Union, Chrome Plated	34.92	14.15
23 21 13 23-2562 EA 3/4" Union, Chrome Plated	44.12	18.61
23 21 13 23-2563 EA 1" Union, Chrome Plated	56.01	23.74
23 21 13 23-2564 EA 1-1/4" Union, Chrome Plated	85.81	31.98
23 21 13 23-2565 EA 1-1/2" Union, Chrome Plated	105.41	37.89
23 21 13 23-2566 EA 2" Union, Chrome Plated	134.98	46.14
23 21 13 23-2567 Chrome Plated Caps (23 21 13 23-2519)		
23 21 13 23-2568 EA 1/4" Cap, Chrome Plated	12.10	5.24
23 21 13 23-2569 EA 3/8" Cap, Chrome Plated	12.65	5.57
23 21 13 23-2570 EA 1/2" Cap, Chrome Plated	14.13	5.91
23 21 13 23-2571 EA 3/4" Cap, Chrome Plated	17.93	7.80
23 21 13 23-2572 EA 1" Cap, Chrome Plated	21.87	10.03
23 21 13 23-2573 EA 1-1/4" Cap, Chrome Plated	31.50	13.71
23 21 13 23-2574 EA 1-1/2" Cap, Chrome Plated	39.88	15.94
23 21 13 23-2575 EA 2" Cap, Chrome Plated	56.41	20.84
23 21 13 23-2576 Chrome Plated Plugs (23 21 13 23-2519)		
23 21 13 23-2577 EA 1/4" Plug, Chrome Plated	10.61	5.24
23 21 13 23-2578 EA 3/8" Plug, Chrome Plated	11.16	5.57
23 21 13 23-2579 EA 1/2" Plug, Chrome Plated	12.56	5.91
23 21 13 23-2580 EA 3/4" Plug, Chrome Plated	16.81	7.80
23 21 13 23-2581 EA 1" Plug, Chrome Plated	21.02	10.03
23 21 13 23-2582 EA 1-1/4" Plug, Chrome Plated	28.55	13.71
23 21 13 23-2583 EA 1-1/2" Plug, Chrome Plated	34.48	15.94
23 21 13 23-2584 EA 2" Plug, Chrome Plated	47.02	20.84
23 21 13 23-2585 Chrome Plated Tees (23 21 13 23-2519)		
23 21 13 23-2586 EA 1/4" Tee, Chrome Plated	29.04	15.60
23 21 13 23-2587 EA 3/8" Tee, Chrome Plated	31.27	17.05
23 21 13 23-2588 EA 1/2" Tee, Chrome Plated	34.50	18.61
23 21 13 23-2589 EA 3/4" Tee, Chrome Plated	42.89	23.06
23 21 13 23-2590 EA 1" Tee, Chrome Plated	58.70	29.76
23 21 13 23-2591 EA 1-1/4" Tee, Chrome Plated	80.84	40.89
23 21 13 23-2592 EA 1-1/2" Tee, Chrome Plated	99.90	47.58
23 21 13 23-2593 EA 2" Tee, Chrome Plated	132.09	58.73
23 21 13 23-2594 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2519)		
23 21 13 23-2595 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	33.50	18.61
23 21 13 23-2596 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	40.18	23.06
23 21 13 23-2597 Chrome Plated Bell Reducers (23 21 13 23-2519)		
23 21 13 23-2598 EA 1/2" x 3/8" Bell Reducer, Chrome Plated	35.31	18.61
23 21 13 23-2599 EA 3/4" x 1/2" Bell Reducer, Chrome Plated	43.30	23.06
23 21 13 23-2600 EA 1" x 1/2" Bell Reducer, Chrome Plated	55.36	29.76
23 21 13 23-2601 Chrome Plated Reducing Tees (23 21 13 23-2519)		
23 21 13 23-2602 EA 3/4" x 1/2" Reducing Tee, Chrome Plated	45.60	23.06

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2603 Chrome Plated Bushings (23 21 13 23-2519)					
23 21 13 23-2604	EA	3/8" x 1/4" Bushing, Chrome Plated.....	10.56		5.24
23 21 13 23-2605	EA	1/2" x 1/4" Bushing, Chrome Plated.....	11.34		5.57
23 21 13 23-2606	EA	1/2" x 3/8" Bushing, Chrome Plated.....	11.90		5.91
23 21 13 23-2607	EA	3/4" x 1/2" Bushing, Chrome Plated.....	15.33		7.80
23 21 13 23-2608	EA	1" x 3/4" Bushing, Chrome Plated.....	21.31		10.03
23 21 13 23-2609	EA	1-1/4" x 1" Bushing, Chrome Plated.....	30.49		13.71
23 21 13 23-2610 Aluminum Tubing Assemblies (23 21 13 23)					
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2611	LF	1/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	8.48		3.90
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2612	LF	3/16" Inside Diameter Aluminum Pipe/Tubing Assembly.....	9.70		4.46
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2613	LF	1/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....	10.84		5.01
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2614	LF	5/16" Inside Diameter Aluminum Pipe/Tubing Assembly.....	11.98		5.57
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2615	LF	3/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	13.21		6.13
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2616	LF	1/2" Inside Diameter Aluminum Pipe/Tubing Assembly.....	14.70		6.68
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2617	LF	5/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	17.05		7.69
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2618	LF	3/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....	19.98		8.72
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2619	LF	7/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	22.69		9.74
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.					
23 21 13 23-2620	LF	1" Inside Diameter Aluminum Pipe/Tubing Assembly.....	25.30		10.25
23 21 16 Hydronic Piping Specialties (23 21)					
23 21 16 00-0001 Vent Valves (23 21 16)					
23 21 16 00-0002	EA	1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A).....	56.85		16.72
23 21 16 00-0003	EA	1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74).....	116.88		17.98
23 21 16 00-0004	EA	1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75).....	112.19		17.98
23 21 16 00-0005	EA	1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H).....	115.47		17.98
23 21 16 00-0006	EA	3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78).....	144.22		17.98
23 21 16 00-0007	EA	1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79).....	110.89		17.98
23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)					
23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)					
23 21 16 00-0010	EA	2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	185.99		27.99
For Flanged Inlet, Add			51.10		
23 21 16 00-0011	EA	3" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	214.41		33.17
For Flanged Inlet, Add			54.86		
23 21 16 00-0012	EA	3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	263.53		38.35
For Flanged Inlet, Add			74.00		
23 21 16 00-0013	EA	4" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	367.16		43.53
For Flanged Inlet, Add			130.21		
23 21 16 00-0014	EA	5" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	418.97		51.82
For Flanged Inlet, Add			143.94		
23 21 16 00-0015	EA	6" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	568.46		65.30
For Flanged Inlet, Add			210.34		
23 21 16 00-0016	EA	8" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	1,168.61		86.03
For Flanged Inlet, Add			559.71		
23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)					
23 21 16 00-0018	EA	2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	304.08		27.99
For Flanged Inlet, Add			131.40		
23 21 16 00-0019	EA	3" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	367.88		33.17
For Flanged Inlet, Add			159.22		
23 21 16 00-0020	EA	3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	503.64		38.35
For Flanged Inlet, Add			237.28		
23 21 16 00-0021	EA	4" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	524.62		43.53
For Flanged Inlet, Add			237.28		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....727.93 For Flanged Inlet, Add 354.03		51.82
23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....779.76 For Flanged Inlet, Add 354.03		65.30
23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....1,239.55 For Flanged Inlet, Add 607.95		86.03
23 21 16 00-0025 Y-Type Strainers (23 21 16)		
23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....51.46 For Galvanized Body, Add 7.90 For Work In Restricted Working Space, Add 10.70		12.48
23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....52.02 For Galvanized Body, Add 7.90 For Work In Restricted Working Space, Add 10.87		12.71
23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....67.90 For Galvanized Body, Add 9.43 For Work In Restricted Working Space, Add 14.72		17.17
23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....83.98 For Galvanized Body, Add 12.74 For Work In Restricted Working Space, Add 17.55		20.51
23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....107.35 For Galvanized Body, Add 17.45 For Work In Restricted Working Space, Add 21.74		25.36
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....120.05 For Galvanized Body, Add 21.01 For Work In Restricted Working Space, Add 23.41		27.31
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....153.86 For Galvanized Body, Add 32.35 For Work In Restricted Working Space, Add 26.75		31.21
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....256.88 For Galvanized Body, Add 72.71 For Work In Restricted Working Space, Add 33.44		39.01
23 21 16 00-0035 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....329.33 For Galvanized Body, Add 95.00 For Work In Restricted Working Space, Add 41.80		48.82
23 21 16 00-0036 Flanged, 125 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....203.29 For Galvanized Body, Add 45.92 For Work In Restricted Working Space, Add 33.44		55.73
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....238.71 For Galvanized Body, Add 49.69 For Work In Restricted Working Space, Add 41.80		69.66
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....459.83 For Galvanized Body, Add 118.45 For Work In Restricted Working Space, Add 66.88		111.46
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....547.49 For Galvanized Body, Add 134.42 For Work In Restricted Working Space, Add 83.60		139.34
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....676.80 For Galvanized Body, Add 150.38 For Work In Restricted Working Space, Add 112.81		188.02
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....812.25 For Galvanized Body, Add 186.77 For Work In Restricted Working Space, Add 131.62		219.04
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....1,262.13 For Galvanized Body, Add 367.84 For Work In Restricted Working Space, Add 157.94		263.23
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....2,297.74 For Galvanized Body, Add 819.84 For Work In Restricted Working Space, Add 197.42		329.04
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....2,645.01 For Galvanized Body, Add 852.45 For Work In Restricted Working Space, Add 282.03		470.05
23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025) Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....49.02 For 300 LB Rating, Add 21.74 For Work In Restricted Working Space, Add 10.87		12.71
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....65.68 For 300 LB Rating, Add 28.27 For Work In Restricted Working Space, Add 14.72		17.17
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....79.45 For 300 LB Rating, Add 35.60 For Work In Restricted Working Space, Add 17.55		20.51
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....98.68 For 300 LB Rating, Add 44.57 For Work In Restricted Working Space, Add 21.74		25.36

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	112.08 57.89 23.41	27.31
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	144.49 94.04 26.75	31.21
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	202.75 155.19 33.44	39.01
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	328.62 321.78 41.80	48.82
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	526.43 610.69 50.16	58.51
23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025) Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	298.23 95.33 41.80	69.66
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	343.57 97.13 54.51	90.84
23 21 16 00-0059 EA 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	408.30 111.22 66.88	111.46
23 21 16 00-0060 EA 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	729.08 270.25 83.60	139.34
23 21 16 00-0061 EA 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	1,121.48 409.66 131.62	219.04
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	1,691.65 699.11 157.94	263.23
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... For 300 LB Rating, Add For Work In Restricted Working Space, Add	4,840.10 2,509.22 197.42	329.04
23 21 16 00-0064 Cast Iron Body, Suction Diffusers (23 21 16) Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	378.28 21.50	43.92
23 21 16 00-0066 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	398.49 23.88	48.71
23 21 16 00-0067 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	405.58 25.09	51.17
23 21 16 00-0068 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	670.41 28.19	57.52
23 21 16 00-0069 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	422.14 29.14	59.52
23 21 16 00-0070 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	474.26 29.14	59.52
23 21 16 00-0071 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	706.96 32.72	66.77
23 21 16 00-0072 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	714.74 34.13	69.66
23 21 16 00-0073 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	875.53 50.18	102.43
23 21 16 00-0074 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	1,014.64 59.72	121.83
23 21 16 00-0075 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	1,260.15 85.54	174.57
23 21 16 00-0076 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	1,518.36 94.01	191.88
23 21 16 00-0077 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	1,654.18 100.73	205.61
23 21 16 00-0078 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	2,641.90 112.81	230.24
23 21 16 00-0079 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	2,977.01 126.88	258.90
23 21 16 00-0080 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... For Work In Restricted Working Space, Add	3,542.30 141.02	287.77
23 21 16 00-0081 Duplex Strainers (23 21 16)		
23 21 16 00-0082 Iron Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0083 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0082) Note: With brass or stainless steel basket.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0084 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	381.70 16.66	27.75
23 21 16 00-0085 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	427.11 19.07	31.77
23 21 16 00-0086 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	572.37 22.39	37.34
23 21 16 00-0087 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	713.30 24.41	40.68
23 21 16 00-0088 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	950.58 29.86	49.60
23 21 16 00-0089 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,197.23 38.11	63.53
23 21 16 00-0090 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0082) Note: With brass or stainless steel basket.		
23 21 16 00-0091 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,286.04 44.37	73.90
23 21 16 00-0092 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,568.00 118.76	197.96
23 21 16 00-0093 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,021.21 152.80	254.70
23 21 16 00-0094 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,880.03 150.54	250.54
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,508.52 225.63	376.04
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,075.58 270.74	451.25
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	13,732.13 307.70	512.83
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,461.22 398.35	663.71
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	18,734.50 483.41	805.67
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	23,728.64 677.03	1,128.13
23 21 16 00-0101 Bronze Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0101) Note: With brass or stainless steel basket.		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	684.07 16.66	27.87
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	760.06 19.07	31.77
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,102.37 22.39	37.34
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,440.35 24.41	40.68
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,857.70 29.86	49.60
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,284.41 38.11	63.53
23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0101) Note: With brass or stainless steel basket.		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,594.05 44.37	74.13
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,909.99 118.76	197.85
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,974.74 152.80	254.70
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,971.70 150.54	250.54
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	12,779.06 225.63	376.04
23 21 16 00-0115 Cast Steel Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115) Note: With brass or stainless steel basket.		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,052.85 19.08	31.77
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,294.71 22.39	37.34
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,532.29 24.41	40.68
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,572.66 29.86	49.60

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 21 16 00-0121	Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115) Note: With brass or stainless steel basket.				
23 21 16 00-0122	EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	2,637.54 44.37		74.13	
23 21 16 00-0123	EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	3,132.78 118.75		197.85	
23 21 16 00-0124	EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	4,120.23 152.83		254.70	
23 21 16 00-0125	EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	5,794.11 150.47		250.54	
23 21 16 00-0126	EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	9,852.39 225.37		376.04	
23 21 16 00-0127	EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	18,774.06 270.44		451.25	
23 21 16 00-0128	Stainless Steel Body, Duplex Strainers (23 21 16 00-0081)				
23 21 16 00-0129	Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0128) Note: With stainless steel basket.				
23 21 16 00-0130	EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	4,360.66 19.08		31.77	
23 21 16 00-0131	EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	5,509.63 22.39		37.34	
23 21 16 00-0132	EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	6,646.35 24.41		40.68	
23 21 16 00-0133	EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	10,643.26 29.86		49.60	
23 21 16 00-0134	Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0128) Note: With stainless steel basket.				
23 21 16 00-0135	EA 2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	11,129.31 44.37		74.13	
23 21 16 00-0136	EA 2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	11,934.26 118.75		197.85	
23 21 16 00-0137	EA 3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	18,652.63 152.83		254.70	
23 21 16 00-0138	EA 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	22,623.53 150.47		250.54	
23 21 16 00-0139	EA 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	39,743.15 225.37		376.04	
23 21 16 00-0140	EA 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer For Work In Restricted Working Space, Add	73,155.91 270.44		451.25	
23 21 16 00-0141	Pressure Regulating Valve (23 21 16)				
23 21 16 00-0142	Screwed Ends, Water Pressure Reducing Valves (23 21 16 00-0141) Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating, iron construction.				
23 21 16 00-0143	EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	117.34 16.71		13.93	
23 21 16 00-0144	EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	140.45 18.57		15.60	
23 21 16 00-0145	EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	175.07 19.67		16.71	
23 21 16 00-0146	EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	276.73 22.29		18.72	
23 21 16 00-0147	EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	368.41 26.75		22.29	
23 21 16 00-0148	EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	533.46 41.03		34.15	
23 21 16 00-0149	EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	583.43 46.16		38.46	
23 21 16 00-0150	EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve For Work In Restricted Working Space, Add	642.23 51.28		111.28	
23 21 16 00-0151	Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0141) Note: Single seated, spring loaded, direct acting diaphragm valve.				
23 21 16 00-0152	Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0151) Note: Single seated, spring loaded, direct acting diaphragm valve.				
23 21 16 00-0153	EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	185.81 22.44		18.73	
23 21 16 00-0154	EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	240.43 31.85		26.53	
23 21 16 00-0155	EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer For Work In Restricted Working Space, Add	304.81 38.89		32.33	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0156 EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	393.64 45.19	39.23
23 21 16 00-0157 EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	509.33 51.44	44.58
23 21 16 00-0158 EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	599.59 62.19	62.19
23 21 16 00-0159 Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer (23 21 16 00-0151) Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160 EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	1,260.86 74.04	72.97
23 21 16 00-0161 EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	1,546.30 84.04	82.92
23 21 16 00-0162 EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	2,127.36 159.46	153.82
23 21 16 00-0163 EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... For Work In Restricted Working Space, Add	4,767.03 183.25	175.93
23 21 16 00-0164 Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0141)		
23 21 16 00-0165 Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0164)		
23 21 16 00-0166 EA 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	828.97 20.40	13.60
23 21 16 00-0167 EA 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	845.48 20.40	13.60
23 21 16 00-0168 EA 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	909.16 25.75	17.17
23 21 16 00-0169 EA 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	1,073.76 32.77	21.84
23 21 16 00-0170 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	1,229.84 37.79	25.19
23 21 16 00-0171 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	1,519.85 44.48	29.65
23 21 16 00-0172 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0164)		
23 21 16 00-0173 EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	1,940.23 74.32	49.55
23 21 16 00-0174 EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	2,361.76 80.85	53.90
23 21 16 00-0175 EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	3,750.80 178.50	118.99
23 21 16 00-0176 EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... For Work In Restricted Working Space, Add	7,690.73 183.25	175.93
23 21 16 00-0177 Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves (23 21 16 00-0141)		
23 21 16 00-0178 EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	127.48	14.49
23 21 16 00-0179 EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	153.37	16.05
23 21 16 00-0180 EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	193.08	17.05
23 21 16 00-0181 EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	310.02	19.39
23 21 16 00-0182 EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	414.30	23.17
23 21 16 00-0183 EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	598.68	35.49
23 21 16 00-0184 EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	648.94	38.66
23 21 16 00-0185 EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	719.73	44.51
23 21 16 00-0186 Screwed Ends, Bronze Body, Water Pressure Reducing Valves (23 21 16 00-0141) Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187 EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	112.31	13.93
23 21 16 00-0188 EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	123.81	15.60
23 21 16 00-0189 EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	147.38	17.27
23 21 16 00-0190 EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	303.14	18.72
23 21 16 00-0191 EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	333.48	22.29
23 21 16 00-0192 EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	522.09	34.15
23 21 16 00-0193 Dual Unit Reducing And Relief Valve (23 21 16)		
23 21 16 00-0194 EA 1/2" Dual Unit Reducing And Relief Valve.....	129.69	34.00
23 21 16 00-0195 Safety Relief Valve (23 21 16) Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0196 Threaded Inlet, Bronze Body Safety Valves (23 21 16 00-0195) Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0197 EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve.....	65.51	13.93
23 21 16 00-0198 EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve.....	81.92	15.33
23 21 16 00-0199 EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve.....	110.61	18.66
23 21 16 00-0200 EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve.....	133.34	19.78
23 21 16 00-0201 EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve.....	181.89	26.47
23 21 16 00-0202 EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve.....	234.42	31.20
23 21 16 00-0203 EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve.....	273.88	39.00
23 21 16 00-0204 Threaded, Bronze Body, Temperature And Pressure Relief Valves (23 21 16)		
23 21 16 00-0205 EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	64.56	28.42
For Cast Iron Body, Add	22.66	
23 21 16 00-0206 EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	80.97	34.10
For Cast Iron Body, Add	31.58	
23 21 16 00-0207 EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	114.52	45.46
For Cast Iron Body, Add	50.29	
23 21 16 00-0208 EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	165.09	48.70
For Cast Iron Body, Add	106.88	
23 21 16 00-0209 EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	252.69	54.60
For Cast Iron Body, Add	204.46	
23 21 16 00-0210 EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	306.32	78.46
For Cast Iron Body, Add	222.64	
23 21 16 00-0211 Horizontal Steel Expansion Tanks (23 21 16)		
Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212 EA 10 Gallon Horizontal Steel Expansion Tank.....	488.39	111.46
23 21 16 00-0213 EA 15 Gallon Horizontal Steel Expansion Tank.....	676.86	139.34
23 21 16 00-0214 EA 30 Gallon Horizontal Steel Expansion Tank.....	875.29	167.20
23 21 16 00-0215 EA 40 Gallon Horizontal Steel Expansion Tank.....	1,009.55	195.07
23 21 16 00-0216 EA 60 Gallon Horizontal Steel Expansion Tank.....	1,121.82	188.02
23 21 16 00-0217 Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)		
Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
23 21 16 00-0218 EA 7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,347.20	83.60
23 21 16 00-0219 EA 10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,409.36	97.53
23 21 16 00-0220 EA 21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,092.78	111.46
23 21 16 00-0221 EA 33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,181.16	125.40
23 21 16 00-0222 EA 44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,949.30	139.34
23 21 16 00-0223 EA 55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,112.32	153.27
23 21 16 00-0224 EA 68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,696.90	167.20
23 21 16 00-0225 EA 77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,956.74	181.13
23 21 16 00-0226 EA 90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,359.78	195.07
23 21 16 00-0227 EA 110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,488.13	222.93
23 21 16 00-0228 EA 132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,623.01	250.80
23 21 16 00-0229 EA 158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,445.23	278.66
23 21 16 00-0230 EA 211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,484.57	334.39
23 21 16 00-0231 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)		
Note: ASME. Precharged with working pressure 125 psi (Armstrong AX)		
23 21 16 00-0232 EA 8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,532.78	83.60
23 21 16 00-0233 EA 11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,584.85	97.53
23 21 16 00-0234 EA 22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,262.22	111.46
23 21 16 00-0235 EA 34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,417.17	125.40
23 21 16 00-0236 EA 44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,068.31	139.34
23 21 16 00-0237 EA 56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,229.31	153.27
23 21 16 00-0238 EA 67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,932.90	167.20
23 21 16 00-0239 EA 77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,251.24	181.13
23 21 16 00-0240 EA 91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,700.67	195.07
23 21 16 00-0241 EA 111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,822.97	222.93
23 21 16 00-0242 EA 132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,927.59	250.80
23 21 16 00-0243 EA 158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	6,874.88	278.66
23 21 16 00-0244 EA 211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,922.28	334.39
23 21 16 00-0245 Diaphragm Type (Residential Style) Steel Expansion Tanks (23 21 16)		
23 21 16 00-0246 EA 2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1).....	61.59	10.25
23 21 16 00-0247 EA 4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1).....	84.23	10.25
23 21 16 00-0248 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks (23 21 16)		
23 21 16 00-0249 EA 15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	964.96	334.51
23 21 16 00-0250 EA 20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	995.07	334.51
23 21 16 00-0251 EA 30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,025.18	334.51
23 21 16 00-0252 EA 40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,103.45	334.51
23 21 16 00-0253 EA 47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,353.07	445.75
23 21 16 00-0254 EA 60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,533.53	445.97
23 21 16 00-0255 EA 80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,569.29	445.97

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0256	EA	87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,605.06	445.97
23 21 16 00-0257	EA	120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,034.68	557.32
23 21 16 00-0258	EA	187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	5,066.75	557.32
23 21 16 00-0259	EA	264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	6,414.09	668.57
23 21 16 00-0260 ASME Construction Compression Tanks (23 21 16)				
Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.				
23 21 16 00-0261	EA	15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	679.71	196.18
		For Galvanized Steel Tanks, Add	191.24	
23 21 16 00-0262	EA	24 Gallon, 13" x 51" ASME Construction Compression Tank.....	694.63	201.75
		For Galvanized Steel Tanks, Add	194.05	
23 21 16 00-0263	EA	30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	749.66	208.44
		For Galvanized Steel Tanks, Add	216.55	
23 21 16 00-0264	EA	40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	812.53	216.25
		For Galvanized Steel Tanks, Add	241.86	
23 21 16 00-0265	EA	60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	930.49	228.50
		For Galvanized Steel Tanks, Add	292.48	
23 21 16 00-0266	EA	80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	967.01	237.42
		For Galvanized Steel Tanks, Add	303.73	
23 21 16 00-0267	EA	100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....	1,172.93	258.60
		For Galvanized Steel Tanks, Add	390.91	
23 21 16 00-0268	EA	120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....	1,275.55	277.55
		For Galvanized Steel Tanks, Add	427.47	
23 21 16 00-0269	EA	144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....	1,564.99	313.22
		For Galvanized Steel Tanks, Add	545.34	
23 21 16 00-0270	EA	180 Gallon, 30" x 60" ASME Construction Compression Tank.....	1,961.12	358.92
		For Galvanized Steel Tanks, Add	708.70	
23 21 16 00-0271	EA	202 Gallon, 30" x 72" ASME Construction Compression Tank.....	2,327.15	397.93
		For Galvanized Steel Tanks, Add	862.32	
23 21 16 00-0272	EA	230 Gallon, 30" x 84" ASME Construction Compression Tank.....	2,543.42	432.48
		For Galvanized Steel Tanks, Add	943.87	
23 21 16 00-0273	EA	280 Gallon, 30" x 96" ASME Construction Compression Tank.....	3,163.71	474.84
		For Galvanized Steel Tanks, Add	1,222.29	
23 21 16 00-0274	EA	306 Gallon, 30" x 108" ASME Construction Compression Tank.....	3,276.15	507.17
		For Galvanized Steel Tanks, Add	1,253.72	
23 21 16 00-0275	EA	340 Gallon, 36" x 84" ASME Construction Compression Tank.....	4,147.30	545.07
		For Galvanized Steel Tanks, Add	1,660.82	
23 21 16 00-0276	EA	550 Gallon, 36" x 96" ASME Construction Compression Tank.....	6,724.18	639.81
		For Galvanized Steel Tanks, Add	2,877.46	
23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)				
23 21 16 00-0278	EA	9" To 24" Diameter Compression Tank Air Fittings.....	111.63	31.21
23 21 16 00-0279	EA	>100 Gallon Compression Tank Air Fittings	302.38	36.78
23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)				
Note: For hot water or two pipe low pressure steam.				
23 21 16 00-0281	EA	1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	55.91	17.98
23 21 16 00-0282	EA	3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	69.24	24.24
23 21 16 00-0283	EA	1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	91.08	29.33
23 21 16 00-0284	EA	1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	130.01	37.16
23 21 16 00-0285	EA	1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	55.91	17.98
23 21 16 00-0286	EA	3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	69.24	24.24
23 21 16 00-0287	EA	1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	91.08	29.33
23 21 16 00-0288	EA	1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	130.01	37.16
23 21 16 00-0289	EA	Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	64.23	13.93
23 21 16 00-0290	EA	Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	94.08	19.50
23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)				
Note: For hot water or two pipe low pressure steam.				
23 21 16 00-0292	EA	1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	88.97	
23 21 16 00-0293	EA	3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	110.53	
23 21 16 00-0294	EA	1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	109.32	
23 21 16 00-0295	EA	3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	125.08	
23 21 16 00-0296	EA	1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	277.55	
23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)				
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.				
23 21 16 00-0298	EA	2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,021.93	237.42
		For 300 PSIG, Add	99.36	
23 21 16 00-0299	EA	2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)	1,251.56	271.98
		For 300 PSIG, Add	125.81	
23 21 16 00-0300	EA	3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	1,864.23	319.91
		For 300 PSIG, Add	206.94	
23 21 16 00-0301	EA	3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F)	1,990.59	338.59
		For 300 PSIG, Add	221.64	
23 21 16 00-0302	EA	4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F)	2,577.05	451.46
		For 300 PSIG, Add	283.95	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F) For 300 PSIG, Add	3,192.42 362.73	511.41
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F) For 300 PSIG, Add	3,773.81 434.46	579.10
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F) For 300 PSIG, Add	5,356.33 645.51	694.73
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F) For 300 PSIG, Add	8,102.33 1,035.88	789.69
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F) For 300 PSIG, Add	10,907.26 1,403.83	1,021.89
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F) For 300 PSIG, Add	22,270.33 3,058.52	1,240.94
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F) For 300 PSIG, Add	27,471.76 3,782.33	1,489.12
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F) For 300 PSIG, Add	35,739.05 4,966.01	1,737.31
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F) For 300 PSIG, Add	41,792.00 5,817.55	1,985.50
23 21 16 00-0312 Vortex Air Separators (23 21 16) Note: Without system strainer.		
23 21 16 00-0313 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N) For 300 PSIG, Add	892.59 79.95	237.42
23 21 16 00-0314 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N) For 300 PSIG, Add	1,110.47 104.65	271.98
23 21 16 00-0315 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N) For 300 PSIG, Add	1,828.96 201.65	319.91
23 21 16 00-0316 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F) For 300 PSIG, Add	1,680.97 175.19	338.59
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F) For 300 PSIG, Add	2,251.75 235.16	451.46
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F) For 300 PSIG, Add	2,851.44 311.59	511.41
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F) For 300 PSIG, Add	3,311.33 365.09	579.10
23 21 16 00-0320 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F) For 300 PSIG, Add	8,672.08 1,142.87	694.73
23 21 16 00-0321 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F) For 300 PSIG, Add	5,989.82 719.00	789.69
23 21 16 00-0322 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F) For 300 PSIG, Add	9,132.29 1,137.58	1,021.89
23 21 16 00-0323 Grooved, With Strainer, Vortex Air Separators (23 21 16)		
23 21 16 00-0324 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G) 23 21 16 00-0325 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G) 23 21 16 00-0326 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G) 23 21 16 00-0327 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G) 23 21 16 00-0328 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G) 23 21 16 00-0329 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G) 23 21 16 00-0330 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G)	1,731.22 2,439.91 3,037.56 3,598.26 5,137.90 8,168.73 12,363.59	270.87 360.93 408.76 463.28 555.94 631.75 817.61
23 21 16 00-0331 Grooved Vortex Air Separators (23 21 16) Note: Without system strainer.		
23 21 16 00-0332 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G) 23 21 16 00-0333 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G) 23 21 16 00-0334 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G) 23 21 16 00-0335 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G) 23 21 16 00-0336 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G) 23 21 16 00-0337 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G) 23 21 16 00-0338 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G)	1,409.84 2,114.61 2,696.58 3,135.78 4,158.07 6,024.86 9,891.22	270.87 360.93 408.76 463.28 555.94 631.75 817.61
23 21 16 00-0339 Removable Head, Air Eliminator And Dirt Separator (23 21 16) Note: Spirovent VDN.		
23 21 16 00-0340 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0341 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0342 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0343 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0344 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0345 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0346 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0347 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN) 23 21 16 00-0348 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	2,721.14 2,953.52 3,923.71 4,541.34 6,584.04 8,431.18 13,053.47 19,146.63 24,747.59	237.42 271.98 319.91 490.45 606.37 686.63 154.94 936.31 1,211.63
23 21 16 00-0349 Swivel Joints (23 21 16)		
23 21 16 00-0350 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) (23 21 16 00-0349) Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0351 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	236.29	29.31

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0352 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	340.07	42.91
23 21 16 00-0353 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	469.69	50.16
23 21 16 00-0354 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	708.19	85.83
23 21 16 00-0355 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	901.72	118.55
23 21 16 00-0356 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,184.06	198.97
23 21 16 00-0357 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	2,163.40	278.66
23 21 16 00-0358 Basket Strainers (23 21 16)		
23 21 16 00-0359 Bronze Body Basket Strainers (23 21 16 00-0358)		
23 21 16 00-0360 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0359)		
23 21 16 00-0361 EA 1/2" Screwed Ends, Bronze Body Basket Strainer.....	148.19	22.30
For Work In Restricted Working Space, Add	13.27	
23 21 16 00-0362 EA 3/4" Screwed Ends, Bronze Body Basket Strainer.....	174.96	26.20
For Work In Restricted Working Space, Add	15.59	
23 21 16 00-0363 EA 1" Screwed Ends, Bronze Body Basket Strainer.....	203.93	31.21
For Work In Restricted Working Space, Add	18.58	
23 21 16 00-0364 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer	249.10	34.55
For Work In Restricted Working Space, Add	20.71	
23 21 16 00-0365 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer	291.99	39.01
For Work In Restricted Working Space, Add	23.39	
23 21 16 00-0366 EA 2" Screwed Ends, Bronze Body Basket Strainer.....	418.82	44.58
For Work In Restricted Working Space, Add	26.78	
23 21 16 00-0367 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer	588.41	59.63
For Work In Restricted Working Space, Add	35.87	
23 21 16 00-0368 EA 3" Screwed Ends, Bronze Body Basket Strainer.....	802.90	63.53
For Work In Restricted Working Space, Add	38.04	
23 21 16 00-0369 Flanged, Bronze Body Basket Strainers (23 21 16 00-0359)		
23 21 16 00-0370 EA 2" Flanged, Bronze Body Basket Strainer.....	759.18	129.86
For Work In Restricted Working Space, Add	77.93	
23 21 16 00-0371 EA 2-1/2" Flanged, Bronze Body Basket Strainer	1,177.13	197.85
For Work In Restricted Working Space, Add	118.72	
23 21 16 00-0372 EA 3" Flanged, Bronze Body Basket Strainer.....	1,392.78	254.70
For Work In Restricted Working Space, Add	152.83	
23 21 16 00-0373 EA 4" Flanged, Bronze Body Basket Strainer.....	2,089.05	297.06
For Work In Restricted Working Space, Add	178.25	
23 21 16 00-0374 EA 6" Flanged, Bronze Body Basket Strainer.....	3,707.87	376.04
For Work In Restricted Working Space, Add	225.63	
23 21 16 00-0375 EA 8" Flanged, Bronze Body Basket Strainer.....	6,389.34	451.25
For Work In Restricted Working Space, Add	270.74	
23 21 16 00-0376 Iron Body Basket Strainers (23 21 16 00-0358)		
23 21 16 00-0377 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0376)		
23 21 16 00-0378 EA 1/2" Screwed Ends, Iron Body Basket Strainer.....	162.21	22.30
For Work In Restricted Working Space, Add	13.27	
23 21 16 00-0379 EA 3/4" Screwed Ends, Iron Body Basket Strainer.....	184.02	26.20
For Work In Restricted Working Space, Add	15.59	
23 21 16 00-0380 EA 1" Screwed Ends, Iron Body Basket Strainer.....	217.78	31.21
For Work In Restricted Working Space, Add	18.58	
23 21 16 00-0381 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer.....	277.94	34.55
For Work In Restricted Working Space, Add	20.71	
23 21 16 00-0382 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer.....	306.33	39.01
For Work In Restricted Working Space, Add	23.39	
23 21 16 00-0383 EA 2" Screwed Ends, Iron Body Basket Strainer.....	362.03	44.58
For Work In Restricted Working Space, Add	26.78	
23 21 16 00-0384 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer.....	509.22	59.63
For Work In Restricted Working Space, Add	35.87	
23 21 16 00-0385 EA 3" Screwed Ends, Iron Body Basket Strainer.....	570.59	63.53
For Work In Restricted Working Space, Add	38.04	
23 21 16 00-0386 Flanged, Iron Body Basket Strainers (23 21 16 00-0376)		
23 21 16 00-0387 EA 2" Flanged, Iron Body Basket Strainer.....	656.11	129.86
For Work In Restricted Working Space, Add	77.93	
23 21 16 00-0388 EA 2-1/2" Flanged, Iron Body Basket Strainer.....	929.94	197.85
For Work In Restricted Working Space, Add	118.72	
23 21 16 00-0389 EA 3" Flanged, Iron Body Basket Strainer.....	1,078.13	254.70
For Work In Restricted Working Space, Add	152.83	
23 21 16 00-0390 EA 4" Flanged, Iron Body Basket Strainer.....	1,450.07	297.06
For Work In Restricted Working Space, Add	178.25	
23 21 16 00-0391 EA 6" Flanged, Iron Body Basket Strainer.....	2,417.94	376.04
For Work In Restricted Working Space, Add	225.63	
23 21 16 00-0392 EA 8" Flanged, Iron Body Basket Strainer.....	3,975.66	451.25
For Work In Restricted Working Space, Add	270.74	
23 21 16 00-0393 EA 10" Flanged, Iron Body Basket Strainer.....	5,649.83	512.83
For Work In Restricted Working Space, Add	307.70	
23 21 16 00-0394 EA 12" Flanged, Iron Body Basket Strainer.....	6,813.10	663.71
For Work In Restricted Working Space, Add	398.19	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0395 EA 14" Flanged, Iron Body Basket Strainer	8,533.23	805.67
For Work In Restricted Working Space, Add	483.41	
23 21 16 00-0396 EA 16" Flanged, Iron Body Basket Strainer	9,494.58	1,128.03
For Work In Restricted Working Space, Add	677.03	
23 21 16 00-0397 Cast Steel Body Basket Strainers (23 21 16 00-0358)		
23 21 16 00-0398 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0397)		
23 21 16 00-0399 EA 1" Screwed Ends, Cast Steel Body Basket Strainer	363.56	31.21
For Work In Restricted Working Space, Add	18.58	
23 21 16 00-0400 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer	471.66	34.55
For Work In Restricted Working Space, Add	20.71	
23 21 16 00-0401 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer	531.67	39.01
For Work In Restricted Working Space, Add	23.38	
23 21 16 00-0402 EA 2" Screwed Ends, Cast Steel Body Basket Strainer	734.71	44.58
For Work In Restricted Working Space, Add	26.78	
23 21 16 00-0403 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer	1,027.02	59.63
For Work In Restricted Working Space, Add	35.86	
23 21 16 00-0404 EA 3" Screwed Ends, Cast Steel Body Basket Strainer	1,315.51	63.53
For Work In Restricted Working Space, Add	38.05	
23 21 16 00-0405 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0397)		
23 21 16 00-0406 EA 2" Flanged, Cast Steel Body Basket Strainer	1,199.19	129.86
For Work In Restricted Working Space, Add	77.93	
23 21 16 00-0407 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer	1,769.73	197.85
For Work In Restricted Working Space, Add	118.72	
23 21 16 00-0408 EA 3" Flanged, Cast Steel Body Basket Strainer	2,011.26	254.70
For Work In Restricted Working Space, Add	152.83	
23 21 16 00-0409 EA 4" Flanged, Cast Steel Body Basket Strainer	2,703.11	297.06
For Work In Restricted Working Space, Add	178.25	
23 21 16 00-0410 EA 6" Flanged, Cast Steel Body Basket Strainer	4,554.57	376.04
For Work In Restricted Working Space, Add	225.63	
23 21 16 00-0411 EA 8" Flanged, Cast Steel Body Basket Strainer	7,133.42	451.25
For Work In Restricted Working Space, Add	270.74	
23 21 16 00-0412 Stainless Steel Body Basket Strainers (23 21 16 00-0358)		
23 21 16 00-0413 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0412)		
23 21 16 00-0414 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer	313.28	31.21
For Work In Restricted Working Space, Add	18.58	
23 21 16 00-0415 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer	441.10	34.55
For Work In Restricted Working Space, Add	20.71	
23 21 16 00-0416 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer	458.70	39.01
For Work In Restricted Working Space, Add	23.38	
23 21 16 00-0417 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer	665.39	44.58
For Work In Restricted Working Space, Add	26.78	
23 21 16 00-0418 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer	937.08	59.63
For Work In Restricted Working Space, Add	35.86	
23 21 16 00-0419 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer	1,302.76	63.53
For Work In Restricted Working Space, Add	38.05	
23 21 16 00-0420 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0412)		
23 21 16 00-0421 EA 2" Flanged, Stainless Steel Body Basket Strainer	1,117.11	129.86
For Work In Restricted Working Space, Add	77.93	
23 21 16 00-0422 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer	1,730.91	197.85
For Work In Restricted Working Space, Add	118.72	
23 21 16 00-0423 EA 3" Flanged, Stainless Steel Body Basket Strainer	2,017.60	254.70
For Work In Restricted Working Space, Add	152.83	
23 21 16 00-0424 EA 4" Flanged, Stainless Steel Body Basket Strainer	3,145.10	297.06
For Work In Restricted Working Space, Add	178.25	
23 21 16 00-0425 EA 6" Flanged, Stainless Steel Body Basket Strainer	4,734.03	376.04
For Work In Restricted Working Space, Add	225.63	
23 21 16 00-0426 EA 8" Flanged, Stainless Steel Body Basket Strainer	7,920.62	451.25
For Work In Restricted Working Space, Add	270.74	
23 21 16 00-0427 Air Vents (23 21 16)		
23 21 16 00-0428 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0427)		
Note: With guided free floating lever.		
23 21 16 00-0429 EA 1/2" NPT, Cast Iron, Automatic Air Vent	204.60	32.33
23 21 16 00-0430 EA 3/4" NPT, Cast Iron, Automatic Air Vent	252.80	42.91
23 21 16 00-0431 EA 1" NPT, Cast Iron, Automatic Air Vent	531.36	44.58
23 21 16 00-0432 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	790.15	68.89
23 21 16 00-0433 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	1,283.18	74.13
23 21 16 00-0434 EA 2" NPT, Cast Iron, Automatic Air Vent	1,484.07	97.76

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0435	Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0427) Note: With guided free floating lever.			
23 21 16 00-0436	EA	1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	1,223.17	37.34
23 21 16 00-0437	EA	3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	1,530.09	42.91
23 21 16 00-0438	EA	1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	1,820.71	44.58
23 21 16 00-0439	EA	1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	2,983.99	69.11
23 21 16 00-0440	EA	1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	3,442.32	74.13
23 21 16 00-0441	EA	2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent.....	5,052.11	97.53
23 21 16 00-0442	Manual Air Vent (23 21 16 00-0427)			
23 21 16 00-0443	EA	Manual Air Vent	74.99	40.24
23 21 16 00-0444	Air Release Valves (23 21 16 00-0427)			
23 21 16 00-0445	Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) (23 21 16 00-0444) Note: Up to 175 psi. Stainless steel float.			
23 21 16 00-0446	EA	1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	150.22	16.72
23 21 16 00-0447	EA	3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	154.68	18.95
23 21 16 00-0448	EA	1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	163.59	23.41
23 21 16 00-0449	Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) (23 21 16 00-0444) Note: Up to 175 psi. Stainless steel float.			
23 21 16 00-0450	EA	1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A).....	592.54	23.41
23 21 16 00-0451	EA	2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	717.19	40.68
23 21 16 00-0452	EA	3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	1,061.99	118.55
23 21 16 00-0453	Cast Iron, Air/Vacuum Valves (23 21 16 00-0444) Note: Up to 150 psi. Stainless steel float.			
23 21 16 00-0454	EA	1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	289.25	16.72
23 21 16 00-0455	EA	1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	358.23	23.41
23 21 16 00-0456	EA	2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	618.94	40.68
23 21 16 00-0457	EA	3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	1,017.50	118.55
23 21 16 00-0458	EA	4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	1,582.03	185.81
23 21 16 00-0459	EA	6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	2,355.43	236.97
23 21 16 00-0460	Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (23 21 16 00-0444) Note: Up to 150 psi. Stainless Steel float.			
23 21 16 00-0461	EA	1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	513.94	23.41
23 21 16 00-0462	EA	2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	791.34	40.68
23 21 16 00-0463	EA	3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C)	1,564.34	142.23
23 21 16 00-0464	EA	4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C)	2,058.43	185.81
23 21 23	Hydronic Pumps (23 21)			
23 21 23 13	In-Line Centrifugal Hydronic Pumps (23 21 23)			
23 21 23 13-0001	Cast Iron Single Stage In-Line Centrifugal Pump (23 21 23 13) Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.			
23 21 23 13-0002	EA	50 GPM Cast Iron Centrifugal Pump, Single Stage With 100' Head And 3 HP.....	7,192.12	297.54
		For Mechanical Seal, Add	503.99	
		For Cast Steel Case, Add	1,133.99	
23 21 23 13-0003	EA	75 GPM Cast Iron Centrifugal Pump, Single Stage With 100' Head And 5 HP.....	7,833.68	360.14
		For Mechanical Seal, Add	540.29	
		For Cast Steel Case, Add	1,215.66	
23 21 23 13-0004	EA	100 GPM Cast Iron Centrifugal Pump, Single Stage With 150' Head And 7-1/2 HP	9,048.37	427.85
		For Mechanical Seal, Add	621.27	
		For Cast Steel Case, Add	1,397.85	
23 21 23 13-0005	EA	125 GPM Cast Iron Centrifugal Pump, Single Stage With 150' Head And 10 HP.....	9,685.29	570.47
		For Mechanical Seal, Add	638.02	
		For Cast Steel Case, Add	1,435.54	
23 21 23 13-0006	EA	150 GPM Cast Iron Centrifugal Pump, Single Stage With 200' Head And 15 HP.....	11,577.89	621.77
		For Mechanical Seal, Add	776.99	
		For Cast Steel Case, Add	1,748.23	
23 21 23 13-0007	EA	200 GPM Cast Iron Centrifugal Pump, Single Stage With 300' Head And 30 HP.....	17,444.09	684.36
		For Mechanical Seal, Add	1,231.36	
		For Cast Steel Case, Add	2,770.57	
23 21 23 13-0008	EA	250 GPM Cast Iron Centrifugal Pump, Single Stage With 300' Head And 40 HP.....	20,469.85	854.68
		For Mechanical Seal, Add	1,432.38	
		For Cast Steel Case, Add	3,222.86	
23 21 23 13-0009	EA	300 GPM Cast Iron Centrifugal Pump, Single Stage With 300' Head And 50 HP.....	17,067.05	976.78
		For Mechanical Seal, Add	1,130.84	
		For Cast Steel Case, Add	2,544.40	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 13-0010 EA 400 GPM Cast Iron Centrifugal Pump, Single Stage With 400' Head And 75 HP..... For Mechanical Seal, Add For Cast Steel Case, Add	36,344.73 2,673.60 6,015.59	974.88
23 21 23 13-0011 EA 600 GPM Cast Iron Centrifugal Pump, Single Stage With 400' Head And 100 HP..... For Mechanical Seal, Add For Cast Steel Case, Add	39,546.92 2,862.92 6,441.57	1,253.16
23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)		
23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)		
Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002 EA 5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T)	3,385.38	325.25
23 21 23 16-0003 EA 7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T)	3,761.44	325.66
23 21 23 16-0004 EA 10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T)	4,923.07	427.85
23 21 23 16-0005 EA 15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T)	5,483.54	526.35
23 21 23 16-0006 EA 15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T)	6,041.40	526.35
23 21 23 16-0007 EA 20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T)	5,966.11	570.47
23 21 23 16-0008 EA 20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T)	6,283.27	570.47
23 21 23 16-0009 EA 25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T)	6,853.68	598.18
23 21 23 16-0010 EA 30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T)	7,744.61	760.28
23 21 23 16-0011 EA 40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T)	8,274.08	854.68
23 21 23 16-0012 EA 60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T)	13,498.16	1,862.40
23 21 23 16-0013 EA 75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T)	18,854.73	2,234.47
23 21 23 16-0014 EA 100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS)	21,781.06	2,793.09
23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)		
Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0016 EA 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 1-1/2 HP	3,005.36	239.06
For 300 LB Flanges, Add	643.56	
23 21 23 16-0017 EA 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 2 HP	3,673.13	256.51
For 300 LB Flanges, Add	822.09	
23 21 23 16-0018 EA 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 3 HP	4,579.28	273.95
For 300 LB Flanges, Add	1,030.82	
23 21 23 16-0019 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 5 HP	5,392.79	325.25
For 300 LB Flanges, Add	1,201.62	
23 21 23 16-0020 EA 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 7.5 HP	5,667.18	325.66
For 300 LB Flanges, Add	1,262.89	
23 21 23 16-0021 EA 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP	6,160.87	427.85
For 300 LB Flanges, Add	1,347.84	
23 21 23 16-0022 EA 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP	6,160.87	427.85
For 300 LB Flanges, Add	1,347.84	
23 21 23 16-0023 EA 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP	6,160.87	427.85
For 300 LB Flanges, Add	1,347.84	
23 21 23 16-0024 EA 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 15 HP	7,507.74	526.35
For 300 LB Flanges, Add	1,640.16	
23 21 23 16-0025 EA 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 15 HP	7,646.36	525.94
For 300 LB Flanges, Add	1,665.27	
23 21 23 16-0026 EA 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 20 HP	8,048.20	570.47
For 300 LB Flanges, Add	1,755.54	
23 21 23 16-0027 EA 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 25 HP	8,814.58	598.18
For 300 LB Flanges, Add	1,926.64	
23 21 23 16-0028 EA 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 30 HP	9,877.67	760.28
For 300 LB Flanges, Add	2,127.41	
23 21 23 16-0029 EA 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 40 HP	11,193.14	854.68
For 300 LB Flanges, Add	2,413.52	
23 21 23 16-0030 EA 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 60 HP	16,706.89	1,862.40
For 300 LB Flanges, Add	3,278.94	
23 21 23 16-0031 EA 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 75 HP	19,907.61	2,234.47
For 300 LB Flanges, Add	3,899.57	
23 21 23 16-0032 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 100 HP	23,764.09	2,793.09
For 300 LB Flanges, Add	4,594.35	
23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)		
Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0034 EA 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 1-1/2" HP	4,537.76	239.06
For 300 LB Flanges, Add	1,026.66	
23 21 23 16-0035 EA 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 2 HP	4,666.54	256.51
For 300 LB Flanges, Add	1,051.20	
23 21 23 16-0036 EA 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 3 HP	4,795.47	273.95
For 300 LB Flanges, Add	1,075.74	
23 21 23 16-0037 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 5 HP	5,195.94	280.11
For 300 LB Flanges, Add	1,172.83	
23 21 23 16-0038 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 7.5 HP	8,374.41	325.25
For 300 LB Flanges, Add	1,947.03	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Hydronic Piping And Pumps

23 21**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0039 EA 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 10 HP..... For 300 LB Flanges, Add	11,127.36 2,615.49	427.85
23 21 23 16-0040 EA 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 15 HP..... For 300 LB Flanges, Add	11,394.95 2,656.36	461.71
23 21 23 16-0041 EA 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 20 HP..... For 300 LB Flanges, Add	12,108.01 2,790.23	513.01
23 21 23 16-0042 EA 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 25 HP..... For 300 LB Flanges, Add	13,353.58 3,119.04	487.91
23 21 23 16-0043 EA 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 40 HP..... For 300 LB Flanges, Add	15,014.49 3,471.59	627.05
23 21 23 16-0044 EA 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 50 HP..... For 300 LB Flanges, Add	18,987.78 4,387.83	745.15
23 21 23 16-0045 EA 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 75 HP..... For 300 LB Flanges, Add	21,455.02 4,914.87	930.69
23 21 23 16-0046 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP..... For 300 LB Flanges, Add	30,436.26 7,070.40	1,117.23
23 21 23 16-0047 EA 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 150 HP..... For 300 LB Flanges, Add	57,386.01 13,747.98	1,240.93
23 21 23 16-0048 EA 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 200 HP..... For 300 LB Flanges, Add	61,163.54 14,521.36	1,596.06
23 21 23 16-0049 Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16) Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050 EA 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 40 HP..... For 300 LB Flanges, Add	15,919.09 3,743.00	526.35
23 21 23 16-0051 EA 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 50 HP..... For 300 LB Flanges, Add	17,244.66 4,054.66	570.47
23 21 23 16-0052 EA 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 75 HP..... For 300 LB Flanges, Add	20,682.11 4,841.87	717.76
23 21 23 16-0053 EA 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 100 HP..... For 300 LB Flanges, Add	40,456.89 9,662.32	986.26
23 21 23 16-0054 EA 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 200 HP..... For 300 LB Flanges, Add	49,623.04 11,803.22	1,315.03
23 21 23 16-0055 Cast Iron Close Coupling Pumps (23 21 23 16)		
23 21 23 16-0056 Foot Mounted Cast Iron Close Coupled Pumps (23 21 23 16-0055)		
23 21 23 16-0057 EA 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....	3,055.85	307.81
23 21 23 16-0058 EA 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM).....	3,284.01	307.81
23 21 23 16-0059 EA 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM).....	3,624.89	324.91
23 21 23 16-0060 EA 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....	3,826.73	324.91
23 21 23 16-0061 EA 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....	4,349.39	341.66
23 21 23 16-0062 EA 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....	5,105.24	391.71
23 21 23 16-0063 EA 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....	6,655.32	482.55
23 21 23 16-0064 EA 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....	7,132.97	522.28
23 21 23 16-0065 EA 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....	8,201.00	564.06
23 21 23 16-0066 Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt (23 21 23 16)		
23 21 23 16-0067 EA 1/3 HP, Centrifugal Pump, Polypropylene Body.....	1,865.83	159.06
23 21 23 16-0068 EA 1/2 HP, Centrifugal Pump, Polypropylene Body.....	1,991.39	168.65
23 21 23 16-0069 EA 3/4 HP, Centrifugal Pump, Polypropylene Body.....	2,338.30	179.58
23 21 23 23 Vertical-Turbine Hydronic Pumps (23 21 23)		
23 21 23 23-0001 Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps (23 21 23 23) Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002 EA 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage, 2 HP..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	8,591.64 732.93 298.06 212.15	760.28
23 21 23 23-0003 EA 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage, 3 HP..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	8,970.69 763.62 312.86 223.15	854.68
23 21 23 23-0004 EA 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage, 15 HP..... For Each Extra Column Assembly <60", Add For Basket Strainer, Galvanized Steel Pipe Sizes 3" To 8", Add For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	10,606.51 901.96 370.82 264.76	745.15

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 23-0005 EA 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage, 25 HP	11,418.27	859.87
For Each Extra Column Assembly <60", Add	968.71	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	401.48	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	287.30	
23 21 23 23-0006 EA 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage, 50 HP	13,902.61	930.69
For Each Extra Column Assembly <60", Add	1,172.06	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	496.25	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	357.23	
23 21 23 23-0007 EA 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage, 100 HP	21,784.48	1,117.23
For Each Extra Column Assembly <60", Add	1,814.58	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	799.56	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	581.71	
23 21 23 23-0008 EA 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage, 150 HP	26,120.41	1,396.55
For Each Extra Column Assembly <60", Add	2,179.41	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	955.04	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	693.83	
23 21 23 23-0009 EA 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage, 200 HP	41,330.44	1,596.06
For Each Extra Column Assembly <60", Add	3,409.04	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	1,550.61	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	1,137.31	
23 21 23 23-0010 EA 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage, 300 HP	54,012.86	1,862.40
For Each Extra Column Assembly <60", Add	4,440.73	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	2,040.81	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	1,500.68	
23 21 23 23-0011 EA 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage, 300 HP	75,321.89	2,234.47
For Each Extra Column Assembly <60", Add	6,169.40	
For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	2,869.23	
For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	2,116.01	

23 21 29 Automatic Condensate Pump Units (23 21)**23 21 29 00-0001 Automatic Shallow Pan Condensate Pump (23 21 29)**

23 21 29 00-0002 EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS)	169.91	33.35
23 21 29 00-0003 EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS)	182.83	33.35
23 21 29 00-0004 EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS)	278.06	38.48

23 21 29 00-0005 Automatic Condensate Pump With Tank (23 21 29)

23 21 29 00-0006 EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL)	97.01	25.66
23 21 29 00-0007 EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20)	102.53	25.66
23 21 29 00-0008 EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS)	165.68	33.35
23 21 29 00-0009 EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS)	180.18	38.48
23 21 29 00-0010 EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS)	318.35	43.61

23 22 Steam And Condensate Piping And Pumps (23 20)**23 22 13 Steam and Condensate Heating Piping (23 22)****23 22 13 00-0001 Ric-Wil System Pipe And Casing (23 22 13)**

Note: Larger pipe size is usually for the condensate return. Perma, Ric-Wil or Thermacol.

23 22 13 00-0002 Steam Pipe (23 22 13 00-0001)

Note: Includes condensate return.

23 22 13 00-0003 LF 1-1/4" And 1-1/2" Ric-Wil Pipe, 10" Case Steam Pipe With Condensate Return	77.85	14.50
23 22 13 00-0004 LF 1-1/4" And 2" Ric-Wil Pipe, 10" Case Steam Pipe With Condensate Return	83.54	16.57
23 22 13 00-0005 LF 1-1/2" And 3" Ric-Wil Pipe, 10" Case Steam Pipe With Condensate Return	95.83	18.65
23 22 13 00-0006 LF 3" And 6" Ric-Wil Pipe, 15" Case Steam Pipe With Condensate Return	147.24	29.01
23 22 13 00-0007 LF 4" And 8" Ric-Wil Pipe, 16-1/2" Case Steam Pipe With Condensate Return	193.57	39.37

23 22 13 00-0008 Steam Or Condensate Pipe (23 22 13 00-0001)

Note: Excludes return.

23 22 13 00-0009 LF 2" Steam Or Condensate Pipe, 6" Case With No Return Line	65.74	9.32
23 22 13 00-0010 LF 2" Steam Or Condensate Pipe, 8" Case With No Return Line	69.97	10.36
23 22 13 00-0011 LF 3" Steam Or Condensate Pipe, 8" Case With No Return Line	81.98	12.43
23 22 13 00-0012 LF 4" Steam Or Condensate Pipe, 10" Case With No Return Line	107.70	18.65
23 22 13 00-0013 LF 6" Steam Or Condensate Pipe, 11-1/2" Case With No Return Line	147.17	27.98

23 22 16 Steam And Condensate Heating Piping Specialties (23 22)**23 22 16 00-0001 Steam Temperature Regulator, Iron Body (23 22 16)****23 22 16 00-0002 Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam**

Temperature Regulator, Iron Body (23 22 16 00-0001)

Note: Up to 150 PSI.

23 22 16 00-0003 EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	510.58	16.05
23 22 16 00-0004 EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	543.63	21.62
23 22 16 00-0005 EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	718.68	26.63
23 22 16 00-0006 EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	799.16	33.66
23 22 16 00-0007 EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	825.91	38.67

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****HVAC Piping And Pumps****23 20****Steam And Condensate Piping And Pumps****23 22****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0008 EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	970.97	42.05
23 22 16 00-0009 EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,268.72	77.03
23 22 16 00-0010 EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,585.88	84.00
23 22 16 00-0011 EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,426.32	196.62
23 22 16 00-0012 EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,901.26	230.77
23 22 16 00-0013 Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0014 EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	746.28	16.05
23 22 16 00-0015 EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	779.69	21.62
23 22 16 00-0016 EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	820.05	26.63
23 22 16 00-0017 EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	983.85	33.66
23 22 16 00-0018 EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,057.82	38.67
23 22 16 00-0019 EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,198.70	42.05
23 22 16 00-0020 EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,854.73	77.03
23 22 16 00-0021 EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,150.39	84.00
23 22 16 00-0022 EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,088.09	196.62
23 22 16 00-0023 EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,866.86	230.77
23 22 16 00-0024 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0025 EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,009.09	16.05
23 22 16 00-0026 EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,031.03	21.62
23 22 16 00-0027 EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,132.49	26.63
23 22 16 00-0028 EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,239.36	33.66
23 22 16 00-0029 EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,289.72	38.67
23 22 16 00-0030 EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,452.83	42.05
23 22 16 00-0031 EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,687.91	77.03
23 22 16 00-0032 EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,996.40	84.00
23 22 16 00-0033 EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,916.44	196.62
23 22 16 00-0034 EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,429.88	230.77
23 22 16 00-0035 Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0036 EA 1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,286.82	16.05
23 22 16 00-0037 EA 3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,307.38	21.62
23 22 16 00-0038 EA 1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,424.11	26.63
23 22 16 00-0039 EA 1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,492.08	33.66
23 22 16 00-0040 EA 1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,554.94	38.67
23 22 16 00-0041 EA 2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,693.06	42.05
23 22 16 00-0042 EA 2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,826.78	77.03
23 22 16 00-0043 EA 3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,143.79	84.00
23 22 16 00-0044 EA 4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,063.83	196.62
23 22 16 00-0045 EA 6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,577.27	230.77
23 22 16 00-0046 High Temperature Safety Relief Valve (23 22 16)		
Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0047 Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0046)		
Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0048 Threaded (23 22 16 00-0047)		
23 22 16 00-0049 EA 3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	223.30	16.71
23 22 16 00-0050 EA 1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	239.38	19.78
23 22 16 00-0051 EA 1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	272.14	25.07
23 22 16 00-0052 EA 1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	328.04	27.86
23 22 16 00-0053 EA 2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	416.49	34.27
23 22 16 00-0054 EA 2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	611.07	39.00
23 22 16 00-0055 EA 3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	667.95	44.85
23 22 16 00-0056 Flanged (23 22 16 00-0047)		
23 22 16 00-0057 EA 1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	1,336.22	27.86
23 22 16 00-0058 EA 2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	1,540.95	33.43
23 22 16 00-0059 EA 2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	1,795.77	56.41
23 22 16 00-0060 EA 2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	2,135.51	61.53
23 22 16 00-0061 EA 3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	2,318.90	66.66
23 22 16 00-0062 EA 3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	2,705.22	76.93
23 22 16 00-0063 EA 4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	4,533.18	123.18
23 22 16 00-0064 EA 6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	8,687.91	128.21
23 22 16 00-0065 Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0046)		
Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.		
23 22 16 00-0066 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam.....	235.89	15.33
23 22 16 00-0067 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam.....	244.14	16.71

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 22 Steam And Condensate Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0068 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	282.85	18.39
23 22 16 00-0069 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	311.06	19.78
23 22 16 00-0070 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	358.42	22.29
23 22 16 00-0071 EA 1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	366.81	25.07
23 22 16 00-0072 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	408.29	26.47
23 22 16 00-0073 EA 1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	442.52	27.86
23 22 16 00-0074 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	596.00	31.20
23 22 16 00-0075 EA 2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	651.77	34.27
23 22 16 00-0076 EA 2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	773.05	39.00
23 22 16 00-0077 Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046) Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	130.97	15.33
23 22 16 00-0079 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	147.42	16.71
23 22 16 00-0080 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Water	192.48	18.39
23 22 16 00-0081 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	210.79	19.78
23 22 16 00-0082 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	289.35	22.29
23 22 16 00-0083 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water	381.47	26.47
23 22 16 00-0084 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Water	538.23	31.20
23 22 16 00-0085 Steam Traps (23 22 16)		
23 22 16 00-0086 Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087 EA 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	228.31	33.44
For Work In Restricted Working Space, Add	20.06	
23 22 16 00-0088 EA 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	231.09	34.83
For Work In Restricted Working Space, Add	20.90	
23 22 16 00-0089 EA 1" 250 PSI Inverted Bucket Cast Iron Steam Trap	334.17	37.11
For Work In Restricted Working Space, Add	22.29	
23 22 16 00-0090 EA 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	534.43	50.66
For Work In Restricted Working Space, Add	30.40	
23 22 16 00-0091 EA 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	786.89	62.43
For Work In Restricted Working Space, Add	37.15	
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap	1,013.11	92.88
For Work In Restricted Working Space, Add	55.73	
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	240.99	34.83
For Work In Restricted Working Space, Add	20.90	
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	311.85	37.15
For Work In Restricted Working Space, Add	22.29	
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	388.75	50.66
For Work In Restricted Working Space, Add	30.40	
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	521.52	61.92
For Work In Restricted Working Space, Add	37.16	
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	940.42	92.85
For Work In Restricted Working Space, Add	55.73	
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	300.65	34.83
For Work In Restricted Working Space, Add	20.90	
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	326.29	37.11
For Work In Restricted Working Space, Add	22.29	
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	428.12	50.66
For Work In Restricted Working Space, Add	30.40	
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	608.14	61.86
For Work In Restricted Working Space, Add	37.16	
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,028.36	92.88
For Work In Restricted Working Space, Add	55.73	
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	383.33	34.83
For Work In Restricted Working Space, Add	20.90	
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	426.04	37.15
For Work In Restricted Working Space, Add	22.29	
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	644.68	50.66
For Work In Restricted Working Space, Add	30.40	
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	667.21	61.86
For Work In Restricted Working Space, Add	37.16	
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,276.40	92.88
For Work In Restricted Working Space, Add	55.73	
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	388.58	34.83
For Work In Restricted Working Space, Add	20.90	
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	426.04	37.15
For Work In Restricted Working Space, Add	22.29	
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap	644.68	50.66
For Work In Restricted Working Space, Add	30.40	
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap	667.21	61.86
For Work In Restricted Working Space, Add	37.16	
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,276.40	92.88
For Work In Restricted Working Space, Add	55.73	
23 22 16 00-0114 Thermostatic Steam Traps (23 22 16 00-0085)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****HVAC Piping And Pumps****23 20****Steam And Condensate Piping And Pumps****23 22****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	127.77 20.06	33.44
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	199.58 20.90	34.83
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	242.61 22.30	37.11
23 22 16 00-0118 Thermodynamic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	254.39	30.10
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	352.99	33.44
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	433.20	34.83
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	574.34	37.11
23 22 16 00-0123 Steam Moisture Separator (23 22 16 00-0085)		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded Spirax Sarco S1.....	306.67	55.73
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded Spirax Sarco S1.....	354.60	75.24
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded	419.01	84.71
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded	504.66	96.98
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged.....	777.35	148.63
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged.....	951.39	178.35
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged.....	1,251.41	222.93
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged.....	1,917.33	297.06
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged.....	3,707.76	393.47
23 22 16 00-0133 Steam/Condensate Meter (23 22 16)		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	3,489.10	61.53
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0135 EA 2" Steam/Condensate Meter.....	3,938.83	72.31
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter.....	4,187.80	89.74
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0137 EA 3" Steam/Condensate Meter.....	4,458.30	117.95
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0138 EA 4" Steam/Condensate Meter.....	4,976.10	138.97
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0139 EA 6" Steam/Condensate Meter.....	9,860.23	856.39
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0140 EA 8" Steam/Condensate Meter.....	10,189.34	907.98
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0141 EA 10" Steam/Condensate Meter.....	10,592.47	948.91
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0142 EA 12" Steam/Condensate Meter.....	11,060.04	1,010.24
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 22 Steam And Condensate Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0143 EA 14" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	11,758.10 1,220.00 567.00 905.00 79.82 64.52	1,097.62
23 22 16 00-0144 EA 16" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	12,137.33 1,220.00 567.00 905.00 79.82 64.52	1,138.55
23 22 23 Steam Condensate Pumps (23 22)		
23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)		
23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13) Note: Cast iron receiver, float switch.		
23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	1,780.09	522.25
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,245.63	536.62
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,352.02	572.52
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,574.25	578.68
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,871.21	629.99
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,130.21	629.99
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,208.90	673.07
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,098.07	703.85
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,157.24	734.64
23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,030.47	558.16
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,598.02	572.52
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,702.45	610.49
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,111.38	659.73
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,208.90	674.10
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,326.81	697.70
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,463.24	734.64
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,156.07	781.83
23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	2,268.60	640.24
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	2,821.14	691.54
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,279.28	683.34
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,306.81	697.70
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,402.98	727.46
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,157.24	734.64
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,241.07	781.83
23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,116.68	693.60
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	3,045.22	707.96

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****HVAC Piping And Pumps****23 20****Steam And Condensate Piping And Pumps****23 22****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	3,468.46	713.09
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,485.80	775.68
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	6,957.14	836.21
23 22 23 13-0035 Duplex Condensate Pumps And Motors (23 22 23 13)		
Note: Cast iron receiver, float switch, alternator assembly.		
23 22 23 13-0036 20 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	2,886.94	700.78
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,067.57	769.52
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,331.80	775.68
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,716.48	845.44
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,075.48	845.44
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,188.00	911.12
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,105.57	951.12
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,264.38	998.32
23 22 23 13-0045 30 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,693.02	755.15
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,877.73	824.93
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,286.48	804.40
23 22 23 13-0049 EA 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,188.00	911.12
23 22 23 13-0050 EA 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,338.31	944.97
23 22 23 13-0051 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,064.38	998.32
23 22 23 13-0052 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,372.12	1,070.15
23 22 23 13-0053 40 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0054 EA 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,030.25	890.59
23 22 23 13-0055 EA 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,434.78	930.61
23 22 23 13-0056 EA 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,350.31	944.97
23 22 23 13-0057 EA 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,510.14	992.17
23 22 23 13-0058 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,265.38	998.32
23 22 23 13-0059 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,396.12	1,070.15
23 22 23 13-0060 50 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0061 EA 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,196.25	890.59
23 22 23 13-0062 EA 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,534.61	978.83
23 22 23 13-0063 EA 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	5,641.86	1,062.97
23 22 23 13-0064 EA 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	9,590.24	1,151.21
23 23 Refrigerant Piping (23 20)		
23 23 13 Refrigerant Piping Valves (23 23)		
23 23 13 00-0001 Ball Valves (23 23 13)		
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)		
23 23 13 00-0003 EA 3/8" Refrigeration Ball Valve, Sweated.....	38.59	11.14
23 23 13 00-0004 EA 1/2" Refrigeration Ball Valve, Sweated.....	40.38	11.14
23 23 13 00-0005 EA 5/8" Refrigeration Ball Valve, Sweated.....	46.87	11.14

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 13 00-0006 EA 7/8" Refrigeration Ball Valve, Sweated	62.94	12.26
23 23 13 00-0007 EA 1-1/8" Refrigeration Ball Valve, Sweated	82.68	13.93
23 23 13 00-0008 EA 1-5/8" Refrigeration Ball Valve, Sweated	128.83	17.16
23 23 13 00-0009 Shut-Off Valves (23 23 13)		
23 23 13 00-0010 Packless (23 23 13 00-0009)		
23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless	38.16	11.59
23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless	45.50	12.71
23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless	83.11	17.39
23 23 13 00-0014 Packed (23 23 13 00-0009)		
23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed	140.97	25.30
23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed	185.01	30.99
23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed	221.94	34.89
23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed	305.25	39.80
23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed	560.57	111.46
23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed	727.33	139.34
23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed	1,019.57	185.81
23 23 13 00-0022 Check Valves (23 23 13)		
23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration	52.17	11.15
23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration	125.94	12.26
23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration	147.53	13.93
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration	195.88	14.83
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration	250.69	17.17
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration	356.35	20.29
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration	500.59	29.77
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration	647.67	39.01
23 23 13 00-0031 Solenoid Valves (23 23 13)		
23 23 13 00-0032 Solenoid Valve, 24 Volt Coil (23 23 13 00-0031)		
23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration	101.94	11.15
23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration	103.86	11.15
23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration	130.87	12.26
23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration	130.87	12.26
23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration	177.58	13.93
23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration	272.80	14.83
23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration	470.75	17.17
23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration	486.33	20.29
23 23 16 Refrigerant Piping Specialties (23 23)		
23 23 16 00-0001 Soft Refrigeration Copper Tubing (23 23 16)		
Note: Based on outside diameter. Nitrogenized.		
23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing	4.74	3.01
23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing	4.79	3.01
23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing	4.84	3.01
23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing	5.06	3.01
23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing	5.20	3.12
23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing	5.79	3.35
23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing	6.05	3.35
23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing	7.05	3.90
23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing	8.11	4.12
23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing	10.19	5.02
23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing	13.39	5.80
23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing	15.22	6.24
23 23 16 00-0014 Type L Drawn, ACR Copper Tubing (23 23 16)		
Note: Nitrogenized.		
23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	5.41	3.12
For Medical Applications "Oxygen Clean", Add	0.51	
23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing	5.75	3.12
For Medical Applications "Oxygen Clean", Add	0.53	
23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	5.97	3.12
For Medical Applications "Oxygen Clean", Add	0.54	
23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing	8.67	4.68
For Medical Applications "Oxygen Clean", Add	0.78	
23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing	9.42	5.02
For Medical Applications "Oxygen Clean", Add	0.85	
23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	10.28	5.02
For Medical Applications "Oxygen Clean", Add	0.89	
23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	12.46	5.80
For Medical Applications "Oxygen Clean", Add	1.06	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Refrigerant Piping

23 23**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	14.75 1.24	6.68
23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	19.95 1.62	8.36
23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	30.01 2.45	12.60
23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	38.20 3.08	15.60
23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	47.16 3.75	18.50
23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	57.76 4.56	22.30
23 23 16 00-0028 Refrigeration Fittings (23 23 16)		
23 23 16 00-0029 Brass Flare Fittings (23 23 16 00-0028)		
23 23 16 00-0030 Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0031 EA 3/8" Brass Flare Union.....	19.63	12.04
23 23 16 00-0032 EA 1/2" Brass Flare Union.....	19.63	12.04
23 23 16 00-0033 EA 5/8" Brass Flare Union.....	20.06	12.04
23 23 16 00-0034 90 Degree Elbow Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union	19.89	12.04
23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union	19.89	12.04
23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union	21.32	12.04
23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)		
23 23 16 00-0039 EA 3/8" Brass Flare Tee.....	32.56	20.06
23 23 16 00-0040 EA 1/2" Brass Flare Tee.....	33.20	20.06
23 23 16 00-0041 EA 5/8" Brass Flare Tee.....	36.68	20.06
23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union	18.46	12.04
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union	18.88	12.04
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union	19.49	12.04
23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union	19.01	12.04
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union	19.59	12.04
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union	19.59	12.04
23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut	18.72	12.04
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut	18.88	12.04
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut	20.74	12.04
23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut.....	18.48	12.04
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....	18.86	12.04
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....	18.94	12.04
23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028) Note: Soldered.		
23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058) Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling.....	18.36	12.04
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling.....	18.29	12.04
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling.....	18.39	12.04
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling.....	19.27	12.60
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling.....	25.89	16.61
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling.....	26.23	17.06
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling	33.11	21.18
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling	45.91	28.98
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling	54.26	34.00
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling	67.16	41.24
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling	106.05	62.65
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling	140.11	82.37
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling	184.41	97.87

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 23 16 00-0073		ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)	
		Note: C x C	
23 23 16 00-0074	EA	1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	19.28 12.04
23 23 16 00-0075	EA	3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	19.35 12.04
23 23 16 00-0076	EA	1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....	19.28 12.04
23 23 16 00-0077	EA	5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	20.46 12.60
23 23 16 00-0078	EA	3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	27.76 16.61
23 23 16 00-0079	EA	7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.31 17.06
23 23 16 00-0080	EA	1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	35.43 21.18
23 23 16 00-0081	EA	1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	47.25 28.98
23 23 16 00-0082	EA	1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	56.93 34.00
23 23 16 00-0083	EA	2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	72.53 41.24
23 23 16 00-0084	EA	2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	115.41 62.65
23 23 16 00-0085	EA	3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	150.59 82.37
23 23 16 00-0086	EA	4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	215.95 97.87
23 23 16 00-0087		ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)	
		Note: C x C	
23 23 16 00-0088	EA	1/4" ACR Wrought Copper Long Radius 90 Degree Elbow.....	20.42 12.04
23 23 16 00-0089	EA	3/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	19.82 12.04
23 23 16 00-0090	EA	1/2" ACR Wrought Copper Long Radius 90 Degree Elbow.....	20.30 12.04
23 23 16 00-0091	EA	5/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	21.01 12.60
23 23 16 00-0092	EA	3/4" ACR Wrought Copper Long Radius 90 Degree Elbow.....	27.09 16.61
23 23 16 00-0093	EA	7/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	28.24 17.06
23 23 16 00-0094	EA	1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	36.06 21.18
23 23 16 00-0095	EA	1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	50.52 28.98
23 23 16 00-0096	EA	1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	60.50 34.00
23 23 16 00-0097	EA	2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	86.71 41.24
23 23 16 00-0098	EA	2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	133.35 62.65
23 23 16 00-0099	EA	3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	175.81 82.37
23 23 16 00-0100	EA	4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	286.73 97.87
23 23 16 00-0101		ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0058)	
		Note: C x C	
23 23 16 00-0102	EA	1/4" ACR Wrought Copper 45 Degree Elbow.....	21.26 12.04
23 23 16 00-0103	EA	3/8" ACR Wrought Copper 45 Degree Elbow.....	20.42 12.04
23 23 16 00-0104	EA	1/2" ACR Wrought Copper 45 Degree Elbow.....	20.07 12.04
23 23 16 00-0105	EA	5/8" ACR Wrought Copper 45 Degree Elbow.....	19.77 12.60
23 23 16 00-0106	EA	3/4" ACR Wrought Copper 45 Degree Elbow.....	28.65 16.61
23 23 16 00-0107	EA	7/8" ACR Wrought Copper 45 Degree Elbow.....	27.01 17.06
23 23 16 00-0108	EA	1-1/8" ACR Wrought Copper 45 Degree Elbow.....	35.42 21.18
23 23 16 00-0109	EA	1-3/8" ACR Wrought Copper 45 Degree Elbow.....	48.43 28.98
23 23 16 00-0110	EA	1-5/8" ACR Wrought Copper 45 Degree Elbow.....	57.00 34.00
23 23 16 00-0111	EA	2-1/8" ACR Wrought Copper 45 Degree Elbow.....	71.75 41.24
23 23 16 00-0112	EA	2-5/8" ACR Wrought Copper 45 Degree Elbow.....	115.15 62.65
23 23 16 00-0113	EA	3-1/8" ACR Wrought Copper 45 Degree Elbow.....	153.22 82.37
23 23 16 00-0114	EA	4-1/8" ACR Wrought Copper 45 Degree Elbow.....	209.94 97.87
23 23 16 00-0115		ACR Wrought Copper Tee (23 23 16 00-0058)	
		Note: C x C x C	
23 23 16 00-0116	EA	1/4" ACR Wrought Copper Tee.....	32.72 20.06
23 23 16 00-0117	EA	3/8" ACR Wrought Copper Tee.....	32.87 20.06
23 23 16 00-0118	EA	1/2" ACR Wrought Copper Tee.....	32.33 20.06
23 23 16 00-0119	EA	5/8" ACR Wrought Copper Tee.....	38.63 25.30
23 23 16 00-0120	EA	3/4" ACR Wrought Copper Tee.....	42.90 25.30
23 23 16 00-0121	EA	7/8" ACR Wrought Copper Tee.....	40.33 25.63
23 23 16 00-0122	EA	1-1/8" ACR Wrought Copper Tee.....	56.87 34.00
23 23 16 00-0123	EA	1-3/8" ACR Wrought Copper Tee.....	69.67 41.24
23 23 16 00-0124	EA	1-5/8" ACR Wrought Copper Tee.....	85.54 48.93
23 23 16 00-0125	EA	2-1/8" ACR Wrought Copper Tee.....	116.81 65.21
23 23 16 00-0126	EA	2-5/8" ACR Wrought Copper Tee.....	251.74 142.34
23 23 16 00-0127	EA	3-1/8" ACR Wrought Copper Tee.....	289.75 156.50
23 23 16 00-0128	EA	4-1/8" ACR Wrought Copper Tee.....	394.09 173.89
23 23 16 00-0129		ACR Wrought Copper Male Adapter (23 23 16 00-0058)	
		Note: C x M	
23 23 16 00-0130	EA	1/4" ACR Wrought Copper Male Adapter.....	22.09 12.04
23 23 16 00-0131	EA	3/8" ACR Wrought Copper Male Adapter.....	23.42 12.04
23 23 16 00-0132	EA	1/2" ACR Wrought Copper Male Adapter.....	21.21 12.04
23 23 16 00-0133		ACR Wrought Copper Female Adapter (23 23 16 00-0058)	
		Note: C x F	
23 23 16 00-0134	EA	1/4" ACR Wrought Copper Female Adapter.....	21.56 12.04
23 23 16 00-0135	EA	3/8" ACR Wrought Copper Female Adapter.....	20.80 12.04
23 23 16 00-0136	EA	1/2" ACR Wrought Copper Female Adapter.....	21.09 12.04

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

Refrigerant Piping

23 23**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0137 ACR Wrought Copper Cap (23 23 16 00-0058) Note: C		
23 23 16 00-0138 EA 1/4" ACR Wrought Copper Cap	12.62	8.02
23 23 16 00-0139 EA 3/8" ACR Wrought Copper Cap	12.38	8.02
23 23 16 00-0140 EA 1/2" ACR Wrought Copper Cap	12.62	8.02
23 23 16 00-0141 ACR Wrought Copper P-Trap (23 23 16 00-0058)		
23 23 16 00-0142 EA 5/8" ACR Wrought Copper P-Trap	51.87	10.26
23 23 16 00-0143 EA 3/4" ACR Wrought Copper P-Trap	65.27	11.28
23 23 16 00-0144 EA 7/8" ACR Wrought Copper P-Trap	64.28	11.28
23 23 16 00-0145 EA 1-1/8" ACR Wrought Copper P-Trap	80.43	12.31
23 23 16 00-0146 EA 1-3/8" ACR Wrought Copper P-Trap	135.45	12.31
23 23 16 00-0147 EA 1-5/8" ACR Wrought Copper P-Trap	178.04	13.34
23 23 16 00-0148 EA 2-1/8" ACR Wrought Copper P-Trap	277.66	14.36
23 23 16 00-0149 Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)		
23 23 16 00-0150 EA 1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	45.28	15.39
23 23 16 00-0151 EA 3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	54.54	18.46
23 23 16 00-0152 EA 1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	65.29	22.57
23 23 16 00-0153 EA 5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	72.81	25.66
23 23 16 00-0154 EA 7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	95.89	32.84
23 23 16 00-0155 EA 1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	113.09	40.02
23 23 16 00-0156 EA 1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	161.54	47.20
23 23 16 00-0157 EA 1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	205.23	64.64
23 23 16 00-0158 EA 2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	253.25	80.03
23 23 16 00-0159 Filter Driers, Solder Connections (23 23 16)		
23 23 16 00-0160 Replaceable Core Type Filter Driers, Solder Connections (23 23 16 00-0159)		
23 23 16 00-0161 EA 5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	317.08	9.23
23 23 16 00-0162 EA 7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	334.85	11.28
23 23 16 00-0163 EA 1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	431.09	11.28
23 23 16 00-0164 EA 1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	445.59	12.31
23 23 16 00-0165 EA 1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	509.34	13.34
23 23 16 00-0166 EA 2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	597.95	14.36
23 23 16 00-0167 EA 2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	703.66	15.39
23 23 16 00-0168 EA 3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	878.77	15.39
23 23 16 00-0169 Sealed In-Line Filter Driers, Solder Connections (23 23 16 00-0159)		
23 23 16 00-0170 EA 1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections	74.12	9.23
23 23 16 00-0171 EA 3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections	94.78	9.23
23 23 16 00-0172 EA 1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections	119.96	10.26
23 23 16 00-0173 EA 1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	136.66	10.26
23 23 16 00-0174 EA 5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections	151.64	10.26
23 23 16 00-0175 EA 5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections	165.84	10.26
23 23 16 00-0176 EA 7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	187.68	11.28
23 23 16 00-0177 EA 7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	243.97	11.28
23 23 16 00-0178 EA 1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	270.89	11.28
23 23 16 00-0179 Bi-Flow Filter Driers, Solder Connections (23 23 16 00-0159)		
23 23 16 00-0180 EA 1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	91.75	9.23
23 23 16 00-0181 EA 3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	107.32	9.23
23 23 16 00-0182 EA 1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	130.23	10.26
23 23 16 00-0183 EA 3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	112.30	9.23
23 23 16 00-0184 EA 1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	140.49	10.26
23 23 16 00-0185 EA 5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	167.60	10.26
23 23 16 00-0186 Refrigerant Compressor Discharge Mufflers (23 23 16)		
23 23 16 00-0187 EA 3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler	88.99	9.23
23 23 16 00-0188 EA 1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler	98.50	9.23
23 23 16 00-0189 EA 5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler	117.86	9.23
23 23 16 00-0190 EA 7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	159.50	11.28
23 23 16 00-0191 EA 1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	209.85	11.28
23 23 16 00-0192 EA 1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	250.26	12.31
23 23 16 00-0193 EA 1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	315.49	13.34
23 23 16 00-0194 EA 2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	519.92	14.36
23 23 16 00-0195 EA 2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	594.48	15.39
23 23 16 00-0196 EA 3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	738.11	15.39
23 23 16 00-0197 Expansion Valves And Vibration Absorbers (23 23 16)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
23 23 16 00-0198	Thermostatic Expansion Valves (23 23 16 00-0197) Note: Outside diameter pipe sizes. Sporlan TP-S.				
23 23 16 00-0199	EA 3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	162.89		9.23	
23 23 16 00-0200	EA 1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	226.06		10.26	
23 23 16 00-0201	EA 5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	362.73		10.26	
23 23 16 00-0202	EA 7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	431.13		11.28	
23 23 16 00-0203	EA 7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	482.44		11.28	
23 23 16 00-0204	Electric Expansion Valves (23 23 16 00-0197) Note: Sporlan SEI or SEH.				
23 23 16 00-0205	EA 1/2 To 11 Ton Electric Expansion Valve	314.41		12.82	
23 23 16 00-0206	EA 25 Ton Electric Expansion Valve	357.16		13.34	
23 23 16 00-0207	EA 50 Ton Electric Expansion Valve	400.08		13.85	
23 23 16 00-0208	EA 100 Ton Electric Expansion Valve	483.19		13.85	
23 23 16 00-0209	EA 175 Ton Electric Expansion Valve	540.02		14.36	
23 23 16 00-0210	Braided Stainless Steel Over Copper Vibration Absorber (23 23 16 00-0197)				
23 23 16 00-0211	EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	43.64		13.34	
23 23 16 00-0212	EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	46.83		15.39	
23 23 16 00-0213	EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	59.73		19.49	
23 23 16 00-0214	EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	66.27		23.60	
23 23 16 00-0215	EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	79.03		28.73	
23 23 16 00-0216	EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	90.61		32.84	
23 23 16 00-0217	EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	129.72		12.31	
23 23 16 00-0218	EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	174.70		13.34	
23 23 16 00-0219	EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	211.97		13.34	
23 23 16 00-0220	EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	276.62		14.36	
23 23 16 00-0221	EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	450.82		15.39	
23 23 16 00-0222	EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	585.06		15.39	
23 23 16 00-0223	Accumulator, Refrigerant Suction Line (23 23 16)				
23 23 16 00-0224	EA 3/4" Accumulator, Refrigeration Suction Line	144.34		46.68	
23 23 16 00-0225	EA 7/8" Accumulator, Refrigeration Suction Line	196.46		64.12	
23 23 16 00-0226	EA 1-1/8" Accumulator, Refrigeration Suction Line	242.39		85.46	
23 23 16 00-0227	EA 1 3/8" Accumulator, Refrigeration Suction Line	325.47		102.60	
23 23 16 00-0228	EA 1-5/8" Accumulator, Refrigeration Suction Line	436.76		128.26	
23 23 16 00-0229	EA 2-1/8" Accumulator, Refrigeration Suction Line	642.60		171.04	
23 23 16 00-0230	Special Chemicals/Component (23 23 16)				
23 23 16 00-0231	GAL Special Chemical, Inhibited Propylene Glycol, 100%	21.87			
23 23 16 00-0232	GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol	7.96			
23 23 16 00-0233	GAL Special Chemical, Inhibited Ethylene Glycol, 100%	15.25			
23 23 16 00-0234	EA Internal Coil/Refrigerant Piping Flush	225.43			
Note: Up to 10 ton AC system.					
23 23 23	Refrigerants (23 23)				
23 23 23 00-0001	Refrigerant (23 23 23)				
23 23 23 00-0002	LB Refrigerant R-113	17.94			
23 23 23 00-0003	LB Refrigerant R-123	16.71			
23 23 23 00-0004	LB Refrigerant R-134A	6.30			
23 23 23 00-0005	LB Refrigerant R-404A	8.14			
23 23 23 00-0006	LB Refrigerant R-407C	7.82			
23 23 23 00-0007	LB Refrigerant R-408A	24.05			
23 23 23 00-0008	LB Refrigerant R-409A	26.36			
23 23 23 00-0009	LB Refrigerant R-410A	6.48			
23 23 23 00-0010	LB Refrigerant R-500	20.57			
23 23 23 00-0011	LB Refrigerant R-502	23.57			
23 23 23 00-0012	LB Refrigerant R-507	7.82			

23 25 HVAC Water Treatment (23 20)**23 25 13 Water Treatment For Closed-Loop Hydronic Systems** (23 25)**23 25 13 00-0001 Polyethylene Chemical Storage Tanks** (23 25 13)

23 25 13 00-0002	EA 15 Gallon Chemical Storage Tank, Polyethylene	225.96		85.72	
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23 25 13 00-0003 Gas Chlorinator (23 25 13)

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Piping And Pumps

23 20

HVAC Water Treatment

23 25**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,114.29	390.02
For Booster Pump, Add	436.77	
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,273.06	445.73
For Booster Pump, Add	499.26	
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,751.02	337.64
For Booster Pump, Add	609.83	
23 25 13 00-0007 Bypass Shot Feeders (23 25 13) Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG (23 25 13 00-0007)		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG	1,019.01	290.36
23 25 13 00-0010 Floor Mount, 175 PSIG (23 25 13 00-0007)		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	1,499.55	437.08
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	1,977.39	578.68
23 25 13 00-0013 Floor Mount, 150 LB ASME Code (23 25 13 00-0007)		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	1,499.55	437.08
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	1,977.39	578.68
23 25 13 00-0016 Floor Mount, 300 LB ASME Code (23 25 13 00-0007)		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	1,866.79	437.08
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	2,358.70	578.68
23 30 HVAC Air Distribution (23)		
23 31 HVAC Ducts And Casings (23 30) Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See CSI section 23 05 29 00-0001 for threaded rod.		
23 31 13 Metal Ducts (23 31)		
23 31 13 13 Rectangular Metal Ducts (23 31 13)		
23 31 13 13-0001 Steel Sheet Metal Duct (23 31 13 13) Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.		
23 31 13 13-0002 Galvanized Steel Sheet Metal Ductwork (23 31 13 13-0001) Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc. Pressure class 2" w.g. and less are considered low pressure/seal class C; pressure class 3" w.g. and less are considered medium pressure/seal class B; pressure class 4" w.g. and larger are considered high pressure/seal class A. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. Field fabricated ductwork is fabricated by hand to fit unique designs and installed on site. SMACNA weight for ductwork LB/SF (surface areas) by gauge: 30 gauge - 0.656 LB/SF; 28 gauge - 0.781 LB/SF; 26 gauge - 0.906 LB/SF; 24 gauge - 1.156 LB/SF; 22 gauge - 1.406 LB/SF; 20 gauge - 1.656 LB/SF; 18 gauge - 2.156 LB/SF; 16 gauge - 2.656 LB/SF; Add 10% additional material for lappage. The gauge of sheet metal is determined by the dimensional opening. Use the following to determine the minimum gauge of low pressure rectangular sheet metal ductwork unless otherwise stated by owner or drawings. The largest dimension of duct governs the gauge: up to 12" - 26 gauge, 13" to 30" - 24 gauge, 31" to 54" - 22 gauge, 55" to 84" - 20 gauge, 85" and larger - 18 gauge. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer.		
23 31 13 13-0003 LB Sheet Metal Ductwork, Low Pressure, Field Fabricated, Galvanized, Field Assemble And Install	10.58	2.89
For Flat Oval, Add	0.17	
For Up To 200, Add	3.51	
For >200 To 500, Add	2.18	
For >500 To 1,000, Add	1.56	
For >1,000 To 2,000, Add	0.88	
For >2,000 To 5,000, Add	0.41	
For Work In Restricted Working Space, Add	2.84	
23 31 13 13-0004 LB Sheet Metal Ductwork, Medium Pressure, Field Fabricated, Galvanized, Field Assemble And Install	12.07	3.37
For Flat Oval, Add	0.18	
For Up To 200, Add	3.98	
For >200 To 500, Add	2.47	
For >500 To 1,000, Add	1.77	
For >1,000 To 2,000, Add	1.00	
For >2,000 To 5,000, Add	0.47	
For Work In Restricted Working Space, Add	3.27	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0005 LB Sheet Metal Ductwork, High Pressure, Field Fabricated, Galvanized, Field Assemble And Install.....	14.50	3.85
For Flat Oval, Add	0.19	
For Up To 200, Add	4.73	
For >200 To 500, Add	2.93	
For >500 To 1,000, Add	2.12	
For >1,000 To 2,000, Add	1.20	
For >2,000 To 5,000, Add	0.57	
For Work In Restricted Working Space, Add	3.97	
23 31 13 13-0006 LB Sheet Metal Ductwork, Low Pressure, Shop Fabricated, Galvanized, Field Assemble And Install.....	6.55	2.89
For Polyvinyl Chloride (PVC) Coated, Add	0.35	
For Flat Oval, Add	0.26	
For Up To 200, Add	2.48	
For >200 To 500, Add	1.61	
For >500 To 1,000, Add	1.04	
For >1,000 To 2,000, Add	0.58	
For >2,000 To 5,000, Add	0.24	
For Work In Restricted Working Space, Add	1.45	
23 31 13 13-0007 LB Sheet Metal Ductwork, Medium Pressure, Shop Fabricated, Galvanized, Field Assemble And Install.....	7.57	3.37
For Polyvinyl Chloride (PVC) Coated, Add	0.43	
For Flat Oval, Add	0.32	
For Up To 200, Add	2.91	
For >200 To 500, Add	1.90	
For >500 To 1,000, Add	1.21	
For >1,000 To 2,000, Add	0.67	
For >2,000 To 5,000, Add	0.28	
For Work In Restricted Working Space, Add	1.63	
23 31 13 13-0008 LB Sheet Metal Ductwork, High Pressure, Shop Fabricated, Galvanized, Field Assemble And Install.....	9.19	3.85
For Polyvinyl Chloride (PVC) Coated, Add	0.52	
For Flat Oval, Add	0.39	
For Up To 200, Add	3.54	
For >200 To 500, Add	2.31	
For >500 To 1,000, Add	1.47	
For >1,000 To 2,000, Add	0.81	
For >2,000 To 5,000, Add	0.34	
For Work In Restricted Working Space, Add	1.97	
23 31 13 13-0009 Galvanized Steel Sheet Metal Ductwork By LF (23 31 13 13-0001)		
Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer.		
23 31 13 13-0010 30 Gauge Galvanized Steel Duct (23 31 13 13-0009)		
23 31 13 13-0011 LF 4" x 4", 30 Gauge Galvanized Steel Duct	6.31	2.79
For Flat Oval, Add	0.25	
For Work In Restricted Working Space, Add	1.39	
23 31 13 13-0012 LF 4" x 6", 30 Gauge Galvanized Steel Duct	7.88	3.48
For Flat Oval, Add	0.31	
For Work In Restricted Working Space, Add	1.74	
23 31 13 13-0013 LF 4" x 8", 30 Gauge Galvanized Steel Duct	9.46	4.18
For Flat Oval, Add	0.38	
For Work In Restricted Working Space, Add	2.09	
23 31 13 13-0014 LF 4" x 10", 30 Gauge Galvanized Steel Duct	11.03	4.87
For Flat Oval, Add	0.44	
For Work In Restricted Working Space, Add	2.44	
23 31 13 13-0015 LF 4" x 12", 30 Gauge Galvanized Steel Duct	12.62	5.56
For Flat Oval, Add	0.50	
For Work In Restricted Working Space, Add	2.78	
23 31 13 13-0016 LF 4" x 14", 30 Gauge Galvanized Steel Duct	14.17	6.26
For Flat Oval, Add	0.56	
For Work In Restricted Working Space, Add	3.13	
23 31 13 13-0017 LF 4" x 16", 30 Gauge Galvanized Steel Duct	15.75	6.96
For Flat Oval, Add	0.62	
For Work In Restricted Working Space, Add	3.48	
23 31 13 13-0018 LF 6" x 6", 30 Gauge Galvanized Steel Duct	9.46	4.18
For Flat Oval, Add	0.38	
For Work In Restricted Working Space, Add	2.09	
23 31 13 13-0019 LF 6" x 8", 30 Gauge Galvanized Steel Duct	11.03	4.87
For Flat Oval, Add	0.44	
For Work In Restricted Working Space, Add	2.44	
23 31 13 13-0020 LF 6" x 10", 30 Gauge Galvanized Steel Duct	12.62	5.56
For Flat Oval, Add	0.50	
For Work In Restricted Working Space, Add	2.78	
23 31 13 13-0021 LF 6" x 12", 30 Gauge Galvanized Steel Duct	14.17	6.26
For Flat Oval, Add	0.56	
For Work In Restricted Working Space, Add	3.13	
23 31 13 13-0022 LF 6" x 14", 30 Gauge Galvanized Steel Duct	15.75	6.96
For Flat Oval, Add	0.62	
For Work In Restricted Working Space, Add	3.48	
23 31 13 13-0023 LF 6" x 16", 30 Gauge Galvanized Steel Duct	17.34	7.66
For Flat Oval, Add	0.69	
For Work In Restricted Working Space, Add	3.83	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0024	LF	8" x 8", 30 Gauge Galvanized Steel Duct	12.62	5.56
		For Flat Oval, Add	0.50	
		For Work In Restricted Working Space, Add	2.78	
23 31 13 13-0025	LF	8" x 10", 30 Gauge Galvanized Steel Duct	14.17	6.26
		For Flat Oval, Add	0.56	
		For Work In Restricted Working Space, Add	3.13	
23 31 13 13-0026	LF	8" x 12", 30 Gauge Galvanized Steel Duct	15.75	6.96
		For Flat Oval, Add	0.62	
		For Work In Restricted Working Space, Add	3.48	
23 31 13 13-0027	LF	8" x 14", 30 Gauge Galvanized Steel Duct	17.34	7.66
		For Flat Oval, Add	0.69	
		For Work In Restricted Working Space, Add	3.83	
23 31 13 13-0028	LF	8" x 16", 30 Gauge Galvanized Steel Duct	18.90	8.35
		For Flat Oval, Add	0.75	
		For Work In Restricted Working Space, Add	4.18	
23 31 13 13-0029	LF	8" x 18", 30 Gauge Galvanized Steel Duct	20.48	9.05
		For Flat Oval, Add	0.81	
		For Work In Restricted Working Space, Add	4.52	
23 31 13 13-0030	LF	8" x 20", 30 Gauge Galvanized Steel Duct	22.06	9.74
		For Flat Oval, Add	0.87	
		For Work In Restricted Working Space, Add	4.87	
23 31 13 13-0031	LF	8" x 22", 30 Gauge Galvanized Steel Duct	23.65	10.43
		For Flat Oval, Add	0.94	
		For Work In Restricted Working Space, Add	5.22	
23 31 13 13-0032	LF	8" x 24", 30 Gauge Galvanized Steel Duct	25.20	11.13
		For Flat Oval, Add	1.00	
		For Work In Restricted Working Space, Add	5.57	
23 31 13 13-0033	LF	10" x 10", 30 Gauge Galvanized Steel Duct	15.75	6.96
		For Flat Oval, Add	0.62	
		For Work In Restricted Working Space, Add	3.48	
23 31 13 13-0034	LF	10" x 12", 30 Gauge Galvanized Steel Duct	17.34	7.66
		For Flat Oval, Add	0.69	
		For Work In Restricted Working Space, Add	3.83	
23 31 13 13-0035	LF	10" x 14", 30 Gauge Galvanized Steel Duct	18.90	8.35
		For Flat Oval, Add	0.75	
		For Work In Restricted Working Space, Add	4.18	
23 31 13 13-0036	LF	10" x 16", 30 Gauge Galvanized Steel Duct	20.48	9.05
		For Flat Oval, Add	0.81	
		For Work In Restricted Working Space, Add	4.52	
23 31 13 13-0037	LF	10" x 18", 30 Gauge Galvanized Steel Duct	22.06	9.74
		For Flat Oval, Add	0.87	
		For Work In Restricted Working Space, Add	4.87	
23 31 13 13-0038	LF	10" x 20", 30 Gauge Galvanized Steel Duct	23.65	10.43
		For Flat Oval, Add	0.94	
		For Work In Restricted Working Space, Add	5.22	
23 31 13 13-0039	LF	10" x 22", 30 Gauge Galvanized Steel Duct	25.20	11.13
		For Flat Oval, Add	1.00	
		For Work In Restricted Working Space, Add	5.57	
23 31 13 13-0040	LF	10" x 24", 30 Gauge Galvanized Steel Duct	26.79	11.83
		For Flat Oval, Add	1.06	
		For Work In Restricted Working Space, Add	5.91	
23 31 13 13-0041	LF	12" x 12", 30 Gauge Galvanized Steel Duct	18.90	8.35
		For Flat Oval, Add	0.75	
		For Work In Restricted Working Space, Add	4.18	
23 31 13 13-0042	LF	12" x 14", 30 Gauge Galvanized Steel Duct	20.48	9.05
		For Flat Oval, Add	0.81	
		For Work In Restricted Working Space, Add	4.52	
23 31 13 13-0043	LF	12" x 16", 30 Gauge Galvanized Steel Duct	22.06	9.74
		For Flat Oval, Add	0.87	
		For Work In Restricted Working Space, Add	4.87	
23 31 13 13-0044	LF	12" x 18", 30 Gauge Galvanized Steel Duct	23.65	10.43
		For Flat Oval, Add	0.94	
		For Work In Restricted Working Space, Add	5.22	
23 31 13 13-0045	LF	12" x 20", 30 Gauge Galvanized Steel Duct	25.20	11.13
		For Flat Oval, Add	1.00	
		For Work In Restricted Working Space, Add	5.57	
23 31 13 13-0046	LF	12" x 22", 30 Gauge Galvanized Steel Duct	26.79	11.83
		For Flat Oval, Add	1.06	
		For Work In Restricted Working Space, Add	5.91	
23 31 13 13-0047	LF	12" x 24", 30 Gauge Galvanized Steel Duct	28.37	12.53
		For Flat Oval, Add	1.12	
		For Work In Restricted Working Space, Add	6.26	
23 31 13 13-0048	LF	14" x 14", 30 Gauge Galvanized Steel Duct	22.06	9.74
		For Flat Oval, Add	0.87	
		For Work In Restricted Working Space, Add	4.87	
23 31 13 13-0049	LF	14" x 16", 30 Gauge Galvanized Steel Duct	23.65	10.43
		For Flat Oval, Add	0.94	
		For Work In Restricted Working Space, Add	5.22	
23 31 13 13-0050	LF	14" x 18", 30 Gauge Galvanized Steel Duct	25.20	11.13
		For Flat Oval, Add	1.00	
		For Work In Restricted Working Space, Add	5.57	
23 31 13 13-0051	LF	14" x 20", 30 Gauge Galvanized Steel Duct	26.79	11.83
		For Flat Oval, Add	1.06	
		For Work In Restricted Working Space, Add	5.91	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0052	LF	14" x 22", 30 Gauge Galvanized Steel Duct	28.37	12.53
		For Flat Oval, Add	1.12	
		For Work In Restricted Working Space, Add	6.26	
23 31 13 13-0053	LF	14" x 24", 30 Gauge Galvanized Steel Duct	29.95	13.22
		For Flat Oval, Add	1.19	
		For Work In Restricted Working Space, Add	6.61	
23 31 13 13-0054	LF	16" x 16", 30 Gauge Galvanized Steel Duct	25.20	11.13
		For Flat Oval, Add	1.00	
		For Work In Restricted Working Space, Add	5.57	
23 31 13 13-0055	LF	16" x 18", 30 Gauge Galvanized Steel Duct	26.79	11.83
		For Flat Oval, Add	1.06	
		For Work In Restricted Working Space, Add	5.91	
23 31 13 13-0056	LF	16" x 20", 30 Gauge Galvanized Steel Duct	28.37	12.53
		For Flat Oval, Add	1.12	
		For Work In Restricted Working Space, Add	6.26	
23 31 13 13-0057	LF	16" x 22", 30 Gauge Galvanized Steel Duct	29.95	13.22
		For Flat Oval, Add	1.19	
		For Work In Restricted Working Space, Add	6.61	
23 31 13 13-0058	LF	16" x 24", 30 Gauge Galvanized Steel Duct	31.51	13.92
		For Flat Oval, Add	1.25	
		For Work In Restricted Working Space, Add	6.96	
23 31 13 13-0059	LF	18" x 18", 30 Gauge Galvanized Steel Duct	28.37	12.53
		For Flat Oval, Add	1.12	
		For Work In Restricted Working Space, Add	6.26	
23 31 13 13-0060	LF	18" x 20", 30 Gauge Galvanized Steel Duct	29.95	13.22
		For Flat Oval, Add	1.19	
		For Work In Restricted Working Space, Add	6.61	
23 31 13 13-0061	LF	18" x 22", 30 Gauge Galvanized Steel Duct	31.51	13.92
		For Flat Oval, Add	1.25	
		For Work In Restricted Working Space, Add	6.96	
23 31 13 13-0062	LF	18" x 24", 30 Gauge Galvanized Steel Duct	33.08	14.61
		For Flat Oval, Add	1.31	
		For Work In Restricted Working Space, Add	7.31	
23 31 13 13-0063	LF	20" x 20", 30 Gauge Galvanized Steel Duct	31.51	13.92
		For Flat Oval, Add	1.25	
		For Work In Restricted Working Space, Add	6.96	
23 31 13 13-0064	LF	20" x 22", 30 Gauge Galvanized Steel Duct	33.08	14.61
		For Flat Oval, Add	1.31	
		For Work In Restricted Working Space, Add	7.31	
23 31 13 13-0065	LF	20" x 24", 30 Gauge Galvanized Steel Duct	34.67	15.30
		For Flat Oval, Add	1.37	
		For Work In Restricted Working Space, Add	7.66	
23 31 13 13-0066	LF	22" x 22", 30 Gauge Galvanized Steel Duct	34.67	15.30
		For Flat Oval, Add	1.37	
		For Work In Restricted Working Space, Add	7.66	
23 31 13 13-0067	LF	22" x 24", 30 Gauge Galvanized Steel Duct	36.23	16.00
		For Flat Oval, Add	1.43	
		For Work In Restricted Working Space, Add	8.00	
23 31 13 13-0068	LF	24" x 24", 30 Gauge Galvanized Steel Duct	37.82	16.70
		For Flat Oval, Add	1.50	
		For Work In Restricted Working Space, Add	8.35	
23 31 13 13-0069		28 Gauge Galvanized Steel Duct (23 31 13 13-0009)		
23 31 13 13-0070	LF	4" x 4", 28 Gauge Galvanized Steel Duct	7.49	3.31
		For Flat Oval, Add	0.30	
		For Work In Restricted Working Space, Add	1.66	
23 31 13 13-0071	LF	4" x 6", 28 Gauge Galvanized Steel Duct	9.38	4.15
		For Flat Oval, Add	0.37	
		For Work In Restricted Working Space, Add	2.07	
23 31 13 13-0072	LF	4" x 8", 28 Gauge Galvanized Steel Duct	11.25	4.97
		For Flat Oval, Add	0.45	
		For Work In Restricted Working Space, Add	2.48	
23 31 13 13-0073	LF	4" x 10", 28 Gauge Galvanized Steel Duct	13.12	5.80
		For Flat Oval, Add	0.52	
		For Work In Restricted Working Space, Add	2.90	
23 31 13 13-0074	LF	4" x 12", 28 Gauge Galvanized Steel Duct	15.02	6.63
		For Flat Oval, Add	0.60	
		For Work In Restricted Working Space, Add	3.32	
23 31 13 13-0075	LF	4" x 14", 28 Gauge Galvanized Steel Duct	16.89	7.46
		For Flat Oval, Add	0.67	
		For Work In Restricted Working Space, Add	3.73	
23 31 13 13-0076	LF	4" x 16", 28 Gauge Galvanized Steel Duct	18.74	8.28
		For Flat Oval, Add	0.74	
		For Work In Restricted Working Space, Add	4.14	
23 31 13 13-0077	LF	6" x 6", 28 Gauge Galvanized Steel Duct	11.25	4.97
		For Flat Oval, Add	0.45	
		For Work In Restricted Working Space, Add	2.48	
23 31 13 13-0078	LF	6" x 8", 28 Gauge Galvanized Steel Duct	13.12	5.80
		For Flat Oval, Add	0.52	
		For Work In Restricted Working Space, Add	2.90	
23 31 13 13-0079	LF	6" x 10", 28 Gauge Galvanized Steel Duct	15.02	6.63
		For Flat Oval, Add	0.60	
		For Work In Restricted Working Space, Add	3.32	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0080	LF	6" x 12", 28 Gauge Galvanized Steel Duct	16.89	7.46	
		For Flat Oval, Add	0.67		
		For Work In Restricted Working Space, Add	3.73		
23 31 13 13-0081	LF	6" x 14", 28 Gauge Galvanized Steel Duct	18.74	8.28	
		For Flat Oval, Add	0.74		
		For Work In Restricted Working Space, Add	4.14		
23 31 13 13-0082	LF	6" x 16", 28 Gauge Galvanized Steel Duct	20.63	9.12	
		For Flat Oval, Add	0.82		
		For Work In Restricted Working Space, Add	4.55		
23 31 13 13-0083	LF	8" x 8", 28 Gauge Galvanized Steel Duct	15.02	6.63	
		For Flat Oval, Add	0.60		
		For Work In Restricted Working Space, Add	3.32		
23 31 13 13-0084	LF	8" x 10", 28 Gauge Galvanized Steel Duct	16.89	7.46	
		For Flat Oval, Add	0.67		
		For Work In Restricted Working Space, Add	3.73		
23 31 13 13-0085	LF	8" x 12", 28 Gauge Galvanized Steel Duct	18.74	8.28	
		For Flat Oval, Add	0.74		
		For Work In Restricted Working Space, Add	4.14		
23 31 13 13-0086	LF	8" x 14", 28 Gauge Galvanized Steel Duct	20.63	9.12	
		For Flat Oval, Add	0.82		
		For Work In Restricted Working Space, Add	4.55		
23 31 13 13-0087	LF	8" x 16", 28 Gauge Galvanized Steel Duct	22.51	9.94	
		For Flat Oval, Add	0.89		
		For Work In Restricted Working Space, Add	4.97		
23 31 13 13-0088	LF	8" x 18", 28 Gauge Galvanized Steel Duct	24.38	10.77	
		For Flat Oval, Add	0.96		
		For Work In Restricted Working Space, Add	5.39		
23 31 13 13-0089	LF	8" x 20", 28 Gauge Galvanized Steel Duct	26.27	11.60	
		For Flat Oval, Add	1.04		
		For Work In Restricted Working Space, Add	5.80		
23 31 13 13-0090	LF	8" x 22", 28 Gauge Galvanized Steel Duct	28.14	12.43	
		For Flat Oval, Add	1.11		
		For Work In Restricted Working Space, Add	6.21		
23 31 13 13-0091	LF	8" x 24", 28 Gauge Galvanized Steel Duct	30.02	13.25	
		For Flat Oval, Add	1.19		
		For Work In Restricted Working Space, Add	6.63		
23 31 13 13-0092	LF	10" x 10", 28 Gauge Galvanized Steel Duct	18.74	8.28	
		For Flat Oval, Add	0.74		
		For Work In Restricted Working Space, Add	4.14		
23 31 13 13-0093	LF	10" x 12", 28 Gauge Galvanized Steel Duct	20.63	9.12	
		For Flat Oval, Add	0.82		
		For Work In Restricted Working Space, Add	4.55		
23 31 13 13-0094	LF	10" x 14", 28 Gauge Galvanized Steel Duct	22.51	9.94	
		For Flat Oval, Add	0.89		
		For Work In Restricted Working Space, Add	4.97		
23 31 13 13-0095	LF	10" x 16", 28 Gauge Galvanized Steel Duct	24.38	10.77	
		For Flat Oval, Add	0.96		
		For Work In Restricted Working Space, Add	5.39		
23 31 13 13-0096	LF	10" x 18", 28 Gauge Galvanized Steel Duct	26.27	11.60	
		For Flat Oval, Add	1.04		
		For Work In Restricted Working Space, Add	5.80		
23 31 13 13-0097	LF	10" x 20", 28 Gauge Galvanized Steel Duct	28.14	12.43	
		For Flat Oval, Add	1.11		
		For Work In Restricted Working Space, Add	6.21		
23 31 13 13-0098	LF	10" x 22", 28 Gauge Galvanized Steel Duct	30.02	13.25	
		For Flat Oval, Add	1.19		
		For Work In Restricted Working Space, Add	6.63		
23 31 13 13-0099	LF	10" x 24", 28 Gauge Galvanized Steel Duct	31.89	14.09	
		For Flat Oval, Add	1.26		
		For Work In Restricted Working Space, Add	7.04		
23 31 13 13-0100	LF	12" x 12", 28 Gauge Galvanized Steel Duct	22.51	9.94	
		For Flat Oval, Add	0.89		
		For Work In Restricted Working Space, Add	4.97		
23 31 13 13-0101	LF	12" x 14", 28 Gauge Galvanized Steel Duct	24.38	10.77	
		For Flat Oval, Add	0.96		
		For Work In Restricted Working Space, Add	5.39		
23 31 13 13-0102	LF	12" x 16", 28 Gauge Galvanized Steel Duct	26.27	11.60	
		For Flat Oval, Add	1.04		
		For Work In Restricted Working Space, Add	5.80		
23 31 13 13-0103	LF	12" x 18", 28 Gauge Galvanized Steel Duct	28.14	12.43	
		For Flat Oval, Add	1.11		
		For Work In Restricted Working Space, Add	6.21		
23 31 13 13-0104	LF	12" x 20", 28 Gauge Galvanized Steel Duct	30.02	13.25	
		For Flat Oval, Add	1.19		
		For Work In Restricted Working Space, Add	6.63		
23 31 13 13-0105	LF	12" x 22", 28 Gauge Galvanized Steel Duct	31.89	14.09	
		For Flat Oval, Add	1.26		
		For Work In Restricted Working Space, Add	7.04		
23 31 13 13-0106	LF	12" x 24", 28 Gauge Galvanized Steel Duct	33.76	14.91	
		For Flat Oval, Add	1.34		
		For Work In Restricted Working Space, Add	7.46		
23 31 13 13-0107	LF	14" x 14", 28 Gauge Galvanized Steel Duct	26.27	11.60	
		For Flat Oval, Add	1.04		
		For Work In Restricted Working Space, Add	5.80		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0108	LF	14" x 16", 28 Gauge Galvanized Steel Duct	28.14	12.43
		For Flat Oval, Add	1.11	
		For Work In Restricted Working Space, Add	6.21	
23 31 13 13-0109	LF	14" x 18", 28 Gauge Galvanized Steel Duct	30.02	13.25
		For Flat Oval, Add	1.19	
		For Work In Restricted Working Space, Add	6.63	
23 31 13 13-0110	LF	14" x 20", 28 Gauge Galvanized Steel Duct	31.89	14.09
		For Flat Oval, Add	1.26	
		For Work In Restricted Working Space, Add	7.04	
23 31 13 13-0111	LF	14" x 22", 28 Gauge Galvanized Steel Duct	33.76	14.91
		For Flat Oval, Add	1.34	
		For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0112	LF	14" x 24", 28 Gauge Galvanized Steel Duct	35.65	15.74
		For Flat Oval, Add	1.41	
		For Work In Restricted Working Space, Add	7.87	
23 31 13 13-0113	LF	16" x 16", 28 Gauge Galvanized Steel Duct	30.02	13.25
		For Flat Oval, Add	1.19	
		For Work In Restricted Working Space, Add	6.63	
23 31 13 13-0114	LF	16" x 18", 28 Gauge Galvanized Steel Duct	31.89	14.09
		For Flat Oval, Add	1.26	
		For Work In Restricted Working Space, Add	7.04	
23 31 13 13-0115	LF	16" x 20", 28 Gauge Galvanized Steel Duct	33.76	14.91
		For Flat Oval, Add	1.34	
		For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0116	LF	16" x 22", 28 Gauge Galvanized Steel Duct	35.65	15.74
		For Flat Oval, Add	1.41	
		For Work In Restricted Working Space, Add	7.87	
23 31 13 13-0117	LF	16" x 24", 28 Gauge Galvanized Steel Duct	37.52	16.57
		For Flat Oval, Add	1.49	
		For Work In Restricted Working Space, Add	8.28	
23 31 13 13-0118	LF	18" x 18", 28 Gauge Galvanized Steel Duct	33.76	14.91
		For Flat Oval, Add	1.34	
		For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0119	LF	18" x 20", 28 Gauge Galvanized Steel Duct	35.65	15.74
		For Flat Oval, Add	1.41	
		For Work In Restricted Working Space, Add	7.87	
23 31 13 13-0120	LF	18" x 22", 28 Gauge Galvanized Steel Duct	37.52	16.57
		For Flat Oval, Add	1.49	
		For Work In Restricted Working Space, Add	8.28	
23 31 13 13-0121	LF	18" x 24", 28 Gauge Galvanized Steel Duct	39.39	17.40
		For Flat Oval, Add	1.56	
		For Work In Restricted Working Space, Add	8.70	
23 31 13 13-0122	LF	20" x 20", 28 Gauge Galvanized Steel Duct	37.52	16.57
		For Flat Oval, Add	1.49	
		For Work In Restricted Working Space, Add	8.28	
23 31 13 13-0123	LF	20" x 22", 28 Gauge Galvanized Steel Duct	39.39	17.40
		For Flat Oval, Add	1.56	
		For Work In Restricted Working Space, Add	8.70	
23 31 13 13-0124	LF	20" x 24", 28 Gauge Galvanized Steel Duct	41.28	18.22
		For Flat Oval, Add	1.64	
		For Work In Restricted Working Space, Add	9.11	
23 31 13 13-0125	LF	22" x 22", 28 Gauge Galvanized Steel Duct	41.28	18.22
		For Flat Oval, Add	1.64	
		For Work In Restricted Working Space, Add	9.11	
23 31 13 13-0126	LF	22" x 24", 28 Gauge Galvanized Steel Duct	43.15	19.06
		For Flat Oval, Add	1.71	
		For Work In Restricted Working Space, Add	9.53	
23 31 13 13-0127	LF	24" x 24", 28 Gauge Galvanized Steel Duct	45.01	19.88
		For Flat Oval, Add	1.78	
		For Work In Restricted Working Space, Add	9.94	
23 31 13 13-0128		26 Gauge Galvanized Steel Duct (23 31 13 13-0009)		
23 31 13 13-0129	LF	4" x 4", 26 Gauge Galvanized Steel Duct	8.70	3.84
		For Flat Oval, Add	0.35	
		For Work In Restricted Working Space, Add	1.92	
23 31 13 13-0130	LF	4" x 6", 26 Gauge Galvanized Steel Duct	10.88	4.80
		For Flat Oval, Add	0.43	
		For Work In Restricted Working Space, Add	2.40	
23 31 13 13-0131	LF	4" x 8", 26 Gauge Galvanized Steel Duct	13.06	5.77
		For Flat Oval, Add	0.52	
		For Work In Restricted Working Space, Add	2.88	
23 31 13 13-0132	LF	4" x 10", 26 Gauge Galvanized Steel Duct	15.23	6.73
		For Flat Oval, Add	0.60	
		For Work In Restricted Working Space, Add	3.36	
23 31 13 13-0133	LF	4" x 12", 26 Gauge Galvanized Steel Duct	17.42	7.69
		For Flat Oval, Add	0.69	
		For Work In Restricted Working Space, Add	3.85	
23 31 13 13-0134	LF	4" x 14", 26 Gauge Galvanized Steel Duct	19.59	8.65
		For Flat Oval, Add	0.78	
		For Work In Restricted Working Space, Add	4.33	
23 31 13 13-0135	LF	4" x 16", 26 Gauge Galvanized Steel Duct	21.76	9.61
		For Flat Oval, Add	0.86	
		For Work In Restricted Working Space, Add	4.81	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0136 LF 6" x 6", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	13.06 0.52 2.88	5.77
23 31 13 13-0137 LF 6" x 8", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	15.23 0.60 3.36	6.73
23 31 13 13-0138 LF 6" x 10", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	17.42 0.69 3.85	7.69
23 31 13 13-0139 LF 6" x 12", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	19.59 0.78 4.33	8.65
23 31 13 13-0140 LF 6" x 14", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	21.76 0.86 4.81	9.61
23 31 13 13-0141 LF 6" x 16", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	23.95 0.95 5.29	10.57
23 31 13 13-0142 LF 8" x 8", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	17.42 0.69 3.85	7.69
23 31 13 13-0143 LF 8" x 10", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	19.59 0.78 4.33	8.65
23 31 13 13-0144 LF 8" x 12", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	21.76 0.86 4.81	9.61
23 31 13 13-0145 LF 8" x 14", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	23.95 0.95 5.29	10.57
23 31 13 13-0146 LF 8" x 16", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	26.12 1.04 5.77	11.53
23 31 13 13-0147 LF 8" x 18", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	28.29 1.12 6.25	12.50
23 31 13 13-0148 LF 8" x 20", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	30.46 1.21 6.73	13.45
23 31 13 13-0149 LF 8" x 22", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	32.66 1.29 7.21	14.42
23 31 13 13-0150 LF 8" x 24", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	34.83 1.38 7.69	15.37
23 31 13 13-0151 LF 10" x 10", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	21.76 0.86 4.81	9.61
23 31 13 13-0152 LF 10" x 12", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	23.94 0.95 5.29	10.56
23 31 13 13-0153 LF 10" x 14", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	26.12 1.04 5.77	11.53
23 31 13 13-0154 LF 10" x 16", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	28.29 1.12 6.25	12.50
23 31 13 13-0155 LF 10" x 18", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	30.46 1.21 6.73	13.45
23 31 13 13-0156 LF 10" x 20", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	32.66 1.29 7.21	14.42
23 31 13 13-0157 LF 10" x 22", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	34.83 1.38 7.69	15.37
23 31 13 13-0158 LF 10" x 24", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	36.99 1.46 8.17	16.34
23 31 13 13-0159 LF 12" x 12", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	26.11 1.03 5.77	11.53
23 31 13 13-0160 LF 12" x 14", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	28.29 1.12 6.25	12.50
23 31 13 13-0161 LF 12" x 16", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	30.46 1.21 6.73	13.45
23 31 13 13-0162 LF 12" x 18", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	32.66 1.29 7.21	14.42
23 31 13 13-0163 LF 12" x 20", 26 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	34.83 1.38 7.69	15.37

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0164 LF 12" x 22", 26 Gauge Galvanized Steel Duct	36.99	16.34
For Flat Oval, Add	1.46	
For Work In Restricted Working Space, Add	8.17	
23 31 13 13-0165 LF 12" x 24", 26 Gauge Galvanized Steel Duct	39.16	17.30
For Flat Oval, Add	1.55	
For Work In Restricted Working Space, Add	8.65	
23 31 13 13-0166 LF 14" x 14", 26 Gauge Galvanized Steel Duct	30.46	13.45
For Flat Oval, Add	1.21	
For Work In Restricted Working Space, Add	6.73	
23 31 13 13-0167 LF 14" x 16", 26 Gauge Galvanized Steel Duct	32.66	14.42
For Flat Oval, Add	1.29	
For Work In Restricted Working Space, Add	7.21	
23 31 13 13-0168 LF 14" x 18", 26 Gauge Galvanized Steel Duct	34.83	15.37
For Flat Oval, Add	1.38	
For Work In Restricted Working Space, Add	7.69	
23 31 13 13-0169 LF 14" x 20", 26 Gauge Galvanized Steel Duct	36.99	16.34
For Flat Oval, Add	1.46	
For Work In Restricted Working Space, Add	8.17	
23 31 13 13-0170 LF 14" x 22", 26 Gauge Galvanized Steel Duct	39.16	17.30
For Flat Oval, Add	1.55	
For Work In Restricted Working Space, Add	8.65	
23 31 13 13-0171 LF 14" x 24", 26 Gauge Galvanized Steel Duct	41.35	18.26
For Flat Oval, Add	1.64	
For Work In Restricted Working Space, Add	9.13	
23 31 13 13-0172 LF 16" x 16", 26 Gauge Galvanized Steel Duct	34.83	15.37
For Flat Oval, Add	1.38	
For Work In Restricted Working Space, Add	7.69	
23 31 13 13-0173 LF 16" x 18", 26 Gauge Galvanized Steel Duct	36.99	16.34
For Flat Oval, Add	1.46	
For Work In Restricted Working Space, Add	8.17	
23 31 13 13-0174 LF 16" x 20", 26 Gauge Galvanized Steel Duct	39.16	17.30
For Flat Oval, Add	1.55	
For Work In Restricted Working Space, Add	8.65	
23 31 13 13-0175 LF 16" x 22", 26 Gauge Galvanized Steel Duct	41.35	18.26
For Flat Oval, Add	1.64	
For Work In Restricted Working Space, Add	9.13	
23 31 13 13-0176 LF 16" x 24", 26 Gauge Galvanized Steel Duct	43.52	19.22
For Flat Oval, Add	1.72	
For Work In Restricted Working Space, Add	9.61	
23 31 13 13-0177 LF 18" x 18", 26 Gauge Galvanized Steel Duct	39.16	17.30
For Flat Oval, Add	1.55	
For Work In Restricted Working Space, Add	8.65	
23 31 13 13-0178 LF 18" x 20", 26 Gauge Galvanized Steel Duct	41.35	18.26
For Flat Oval, Add	1.64	
For Work In Restricted Working Space, Add	9.13	
23 31 13 13-0179 LF 18" x 22", 26 Gauge Galvanized Steel Duct	43.52	19.22
For Flat Oval, Add	1.72	
For Work In Restricted Working Space, Add	9.61	
23 31 13 13-0180 LF 18" x 24", 26 Gauge Galvanized Steel Duct	45.70	20.18
For Flat Oval, Add	1.81	
For Work In Restricted Working Space, Add	10.09	
23 31 13 13-0181 LF 20" x 20", 26 Gauge Galvanized Steel Duct	43.52	19.22
For Flat Oval, Add	1.72	
For Work In Restricted Working Space, Add	9.61	
23 31 13 13-0182 LF 20" x 22", 26 Gauge Galvanized Steel Duct	45.70	20.18
For Flat Oval, Add	1.81	
For Work In Restricted Working Space, Add	10.09	
23 31 13 13-0183 LF 20" x 24", 26 Gauge Galvanized Steel Duct	47.87	21.14
For Flat Oval, Add	1.89	
For Work In Restricted Working Space, Add	10.57	
23 31 13 13-0184 LF 22" x 22", 26 Gauge Galvanized Steel Duct	47.87	21.14
For Flat Oval, Add	1.89	
For Work In Restricted Working Space, Add	10.57	
23 31 13 13-0185 LF 22" x 24", 26 Gauge Galvanized Steel Duct	50.06	22.11
For Flat Oval, Add	1.98	
For Work In Restricted Working Space, Add	11.05	
23 31 13 13-0186 LF 24" x 24", 26 Gauge Galvanized Steel Duct	52.23	23.06
For Flat Oval, Add	2.07	
For Work In Restricted Working Space, Add	11.53	
23 31 13 13-0187 24 Gauge Galvanized Steel Duct (23 31 13 13-0009)		
23 31 13 13-0188 LF 4" x 4", 24 Gauge Galvanized Steel Duct	11.11	4.91
For Flat Oval, Add	0.44	
For Work In Restricted Working Space, Add	2.45	
23 31 13 13-0189 LF 4" x 6", 24 Gauge Galvanized Steel Duct	13.88	6.13
For Flat Oval, Add	0.55	
For Work In Restricted Working Space, Add	3.07	
23 31 13 13-0190 LF 4" x 8", 24 Gauge Galvanized Steel Duct	16.67	7.36
For Flat Oval, Add	0.66	
For Work In Restricted Working Space, Add	3.68	
23 31 13 13-0191 LF 4" x 10", 24 Gauge Galvanized Steel Duct	19.44	8.58
For Flat Oval, Add	0.77	
For Work In Restricted Working Space, Add	4.29	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts And Casings		23 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0192 LF 4" x 12", 24 Gauge Galvanized Steel Duct	22.20	9.81
For Flat Oval, Add	0.88	
For Work In Restricted Working Space, Add	4.90	
23 31 13 13-0193 LF 4" x 14", 24 Gauge Galvanized Steel Duct	24.98	11.03
For Flat Oval, Add	0.99	
For Work In Restricted Working Space, Add	5.51	
23 31 13 13-0194 LF 4" x 16", 24 Gauge Galvanized Steel Duct	27.77	12.27
For Flat Oval, Add	1.10	
For Work In Restricted Working Space, Add	6.13	
23 31 13 13-0195 LF 6" x 6", 24 Gauge Galvanized Steel Duct	16.67	7.36
For Flat Oval, Add	0.66	
For Work In Restricted Working Space, Add	3.68	
23 31 13 13-0196 LF 6" x 8", 24 Gauge Galvanized Steel Duct	19.44	8.58
For Flat Oval, Add	0.77	
For Work In Restricted Working Space, Add	4.29	
23 31 13 13-0197 LF 6" x 10", 24 Gauge Galvanized Steel Duct	22.20	9.81
For Flat Oval, Add	0.88	
For Work In Restricted Working Space, Add	4.90	
23 31 13 13-0198 LF 6" x 12", 24 Gauge Galvanized Steel Duct	24.98	11.03
For Flat Oval, Add	0.99	
For Work In Restricted Working Space, Add	5.51	
23 31 13 13-0199 LF 6" x 14", 24 Gauge Galvanized Steel Duct	27.77	12.27
For Flat Oval, Add	1.10	
For Work In Restricted Working Space, Add	6.13	
23 31 13 13-0200 LF 6" x 16", 24 Gauge Galvanized Steel Duct	30.54	13.49
For Flat Oval, Add	1.21	
For Work In Restricted Working Space, Add	6.74	
23 31 13 13-0201 LF 8" x 8", 24 Gauge Galvanized Steel Duct	22.20	9.81
For Flat Oval, Add	0.88	
For Work In Restricted Working Space, Add	4.90	
23 31 13 13-0202 LF 8" x 10", 24 Gauge Galvanized Steel Duct	24.98	11.03
For Flat Oval, Add	0.99	
For Work In Restricted Working Space, Add	5.51	
23 31 13 13-0203 LF 8" x 12", 24 Gauge Galvanized Steel Duct	27.77	12.27
For Flat Oval, Add	1.10	
For Work In Restricted Working Space, Add	6.13	
23 31 13 13-0204 LF 8" x 14", 24 Gauge Galvanized Steel Duct	30.54	13.49
For Flat Oval, Add	1.21	
For Work In Restricted Working Space, Add	6.74	
23 31 13 13-0205 LF 8" x 16", 24 Gauge Galvanized Steel Duct	33.32	14.71
For Flat Oval, Add	1.32	
For Work In Restricted Working Space, Add	7.36	
23 31 13 13-0206 LF 8" x 18", 24 Gauge Galvanized Steel Duct	36.09	15.94
For Flat Oval, Add	1.43	
For Work In Restricted Working Space, Add	7.97	
23 31 13 13-0207 LF 8" x 20", 24 Gauge Galvanized Steel Duct	38.87	17.17
For Flat Oval, Add	1.54	
For Work In Restricted Working Space, Add	8.58	
23 31 13 13-0208 LF 8" x 22", 24 Gauge Galvanized Steel Duct	41.65	18.38
For Flat Oval, Add	1.65	
For Work In Restricted Working Space, Add	9.20	
23 31 13 13-0209 LF 8" x 24", 24 Gauge Galvanized Steel Duct	44.43	19.62
For Flat Oval, Add	1.76	
For Work In Restricted Working Space, Add	9.81	
23 31 13 13-0210 LF 10" x 10", 24 Gauge Galvanized Steel Duct	27.77	12.27
For Flat Oval, Add	1.10	
For Work In Restricted Working Space, Add	6.13	
23 31 13 13-0211 LF 10" x 12", 24 Gauge Galvanized Steel Duct	30.54	13.49
For Flat Oval, Add	1.21	
For Work In Restricted Working Space, Add	6.74	
23 31 13 13-0212 LF 10" x 14", 24 Gauge Galvanized Steel Duct	33.32	14.71
For Flat Oval, Add	1.32	
For Work In Restricted Working Space, Add	7.36	
23 31 13 13-0213 LF 10" x 16", 24 Gauge Galvanized Steel Duct	36.09	15.94
For Flat Oval, Add	1.43	
For Work In Restricted Working Space, Add	7.97	
23 31 13 13-0214 LF 10" x 18", 24 Gauge Galvanized Steel Duct	38.87	17.17
For Flat Oval, Add	1.54	
For Work In Restricted Working Space, Add	8.58	
23 31 13 13-0215 LF 10" x 20", 24 Gauge Galvanized Steel Duct	41.65	18.38
For Flat Oval, Add	1.65	
For Work In Restricted Working Space, Add	9.20	
23 31 13 13-0216 LF 10" x 22", 24 Gauge Galvanized Steel Duct	44.43	19.62
For Flat Oval, Add	1.76	
For Work In Restricted Working Space, Add	9.81	
23 31 13 13-0217 LF 10" x 24", 24 Gauge Galvanized Steel Duct	47.20	20.85
For Flat Oval, Add	1.87	
For Work In Restricted Working Space, Add	10.42	
23 31 13 13-0218 LF 10" x 26", 24 Gauge Galvanized Steel Duct	49.98	22.08
For Flat Oval, Add	1.98	
For Work In Restricted Working Space, Add	11.04	
23 31 13 13-0219 LF 10" x 28", 24 Gauge Galvanized Steel Duct	52.76	23.29
For Flat Oval, Add	2.09	
For Work In Restricted Working Space, Add	11.65	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0220	LF	10" x 30", 24 Gauge Galvanized Steel Duct	55.53	24.52
		For Flat Oval, Add	2.20	
		For Work In Restricted Working Space, Add	12.26	
23 31 13 13-0221	LF	12" x 12", 24 Gauge Galvanized Steel Duct	33.32	14.71
		For Flat Oval, Add	1.32	
		For Work In Restricted Working Space, Add	7.36	
23 31 13 13-0222	LF	12" x 14", 24 Gauge Galvanized Steel Duct	36.09	15.94
		For Flat Oval, Add	1.43	
		For Work In Restricted Working Space, Add	7.97	
23 31 13 13-0223	LF	12" x 16", 24 Gauge Galvanized Steel Duct	38.87	17.17
		For Flat Oval, Add	1.54	
		For Work In Restricted Working Space, Add	8.58	
23 31 13 13-0224	LF	12" x 18", 24 Gauge Galvanized Steel Duct	41.65	18.38
		For Flat Oval, Add	1.65	
		For Work In Restricted Working Space, Add	9.20	
23 31 13 13-0225	LF	12" x 20", 24 Gauge Galvanized Steel Duct	44.43	19.62
		For Flat Oval, Add	1.76	
		For Work In Restricted Working Space, Add	9.81	
23 31 13 13-0226	LF	12" x 22", 24 Gauge Galvanized Steel Duct	47.20	20.85
		For Flat Oval, Add	1.87	
		For Work In Restricted Working Space, Add	10.42	
23 31 13 13-0227	LF	12" x 24", 24 Gauge Galvanized Steel Duct	49.98	22.08
		For Flat Oval, Add	1.98	
		For Work In Restricted Working Space, Add	11.04	
23 31 13 13-0228	LF	12" x 26", 24 Gauge Galvanized Steel Duct	52.76	23.29
		For Flat Oval, Add	2.09	
		For Work In Restricted Working Space, Add	11.65	
23 31 13 13-0229	LF	12" x 28", 24 Gauge Galvanized Steel Duct	55.53	24.52
		For Flat Oval, Add	2.20	
		For Work In Restricted Working Space, Add	12.26	
23 31 13 13-0230	LF	12" x 30", 24 Gauge Galvanized Steel Duct	58.30	25.75
		For Flat Oval, Add	2.31	
		For Work In Restricted Working Space, Add	12.87	
23 31 13 13-0231	LF	14" x 14", 24 Gauge Galvanized Steel Duct	38.87	17.17
		For Flat Oval, Add	1.54	
		For Work In Restricted Working Space, Add	8.58	
23 31 13 13-0232	LF	14" x 16", 24 Gauge Galvanized Steel Duct	41.65	18.38
		For Flat Oval, Add	1.65	
		For Work In Restricted Working Space, Add	9.20	
23 31 13 13-0233	LF	14" x 18", 24 Gauge Galvanized Steel Duct	44.43	19.62
		For Flat Oval, Add	1.76	
		For Work In Restricted Working Space, Add	9.81	
23 31 13 13-0234	LF	14" x 20", 24 Gauge Galvanized Steel Duct	47.20	20.85
		For Flat Oval, Add	1.87	
		For Work In Restricted Working Space, Add	10.42	
23 31 13 13-0235	LF	14" x 22", 24 Gauge Galvanized Steel Duct	49.98	22.08
		For Flat Oval, Add	1.98	
		For Work In Restricted Working Space, Add	11.04	
23 31 13 13-0236	LF	14" x 24", 24 Gauge Galvanized Steel Duct	52.76	23.29
		For Flat Oval, Add	2.09	
		For Work In Restricted Working Space, Add	11.65	
23 31 13 13-0237	LF	14" x 26", 24 Gauge Galvanized Steel Duct	55.53	24.52
		For Flat Oval, Add	2.20	
		For Work In Restricted Working Space, Add	12.26	
23 31 13 13-0238	LF	14" x 28", 24 Gauge Galvanized Steel Duct	58.30	25.75
		For Flat Oval, Add	2.31	
		For Work In Restricted Working Space, Add	12.87	
23 31 13 13-0239	LF	14" x 30", 24 Gauge Galvanized Steel Duct	61.10	26.98
		For Flat Oval, Add	2.42	
		For Work In Restricted Working Space, Add	13.49	
23 31 13 13-0240	LF	16" x 16", 24 Gauge Galvanized Steel Duct	44.43	19.62
		For Flat Oval, Add	1.76	
		For Work In Restricted Working Space, Add	9.81	
23 31 13 13-0241	LF	16" x 18", 24 Gauge Galvanized Steel Duct	47.20	20.85
		For Flat Oval, Add	1.87	
		For Work In Restricted Working Space, Add	10.42	
23 31 13 13-0242	LF	16" x 20", 24 Gauge Galvanized Steel Duct	49.98	22.08
		For Flat Oval, Add	1.98	
		For Work In Restricted Working Space, Add	11.04	
23 31 13 13-0243	LF	16" x 22", 24 Gauge Galvanized Steel Duct	52.76	23.29
		For Flat Oval, Add	2.09	
		For Work In Restricted Working Space, Add	11.65	
23 31 13 13-0244	LF	16" x 24", 24 Gauge Galvanized Steel Duct	55.53	24.52
		For Flat Oval, Add	2.20	
		For Work In Restricted Working Space, Add	12.26	
23 31 13 13-0245	LF	16" x 26", 24 Gauge Galvanized Steel Duct	58.30	25.75
		For Flat Oval, Add	2.31	
		For Work In Restricted Working Space, Add	12.87	
23 31 13 13-0246	LF	16" x 28", 24 Gauge Galvanized Steel Duct	61.10	26.98
		For Flat Oval, Add	2.42	
		For Work In Restricted Working Space, Add	13.49	
23 31 13 13-0247	LF	16" x 30", 24 Gauge Galvanized Steel Duct	63.86	28.20
		For Flat Oval, Add	2.53	
		For Work In Restricted Working Space, Add	14.10	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0248 LF 18" x 18", 24 Gauge Galvanized Steel Duct	49.98	22.08
For Flat Oval, Add	1.98	
For Work In Restricted Working Space, Add	11.04	
23 31 13 13-0249 LF 18" x 20", 24 Gauge Galvanized Steel Duct	52.76	23.29
For Flat Oval, Add	2.09	
For Work In Restricted Working Space, Add	11.65	
23 31 13 13-0250 LF 18" x 22", 24 Gauge Galvanized Steel Duct	55.53	24.52
For Flat Oval, Add	2.20	
For Work In Restricted Working Space, Add	12.26	
23 31 13 13-0251 LF 18" x 24", 24 Gauge Galvanized Steel Duct	58.30	25.75
For Flat Oval, Add	2.31	
For Work In Restricted Working Space, Add	12.87	
23 31 13 13-0252 LF 18" x 26", 24 Gauge Galvanized Steel Duct	61.10	26.98
For Flat Oval, Add	2.42	
For Work In Restricted Working Space, Add	13.49	
23 31 13 13-0253 LF 18" x 28", 24 Gauge Galvanized Steel Duct	63.86	28.20
For Flat Oval, Add	2.53	
For Work In Restricted Working Space, Add	14.10	
23 31 13 13-0254 LF 18" x 30", 24 Gauge Galvanized Steel Duct	66.63	29.43
For Flat Oval, Add	2.64	
For Work In Restricted Working Space, Add	14.71	
23 31 13 13-0255 LF 20" x 20", 24 Gauge Galvanized Steel Duct	55.53	24.52
For Flat Oval, Add	2.20	
For Work In Restricted Working Space, Add	12.26	
23 31 13 13-0256 LF 20" x 22", 24 Gauge Galvanized Steel Duct	58.30	25.75
For Flat Oval, Add	2.31	
For Work In Restricted Working Space, Add	12.87	
23 31 13 13-0257 LF 20" x 24", 24 Gauge Galvanized Steel Duct	61.10	26.98
For Flat Oval, Add	2.42	
For Work In Restricted Working Space, Add	13.49	
23 31 13 13-0258 LF 20" x 26", 24 Gauge Galvanized Steel Duct	63.86	28.20
For Flat Oval, Add	2.53	
For Work In Restricted Working Space, Add	14.10	
23 31 13 13-0259 LF 20" x 28", 24 Gauge Galvanized Steel Duct	66.63	29.43
For Flat Oval, Add	2.64	
For Work In Restricted Working Space, Add	14.71	
23 31 13 13-0260 LF 20" x 30", 24 Gauge Galvanized Steel Duct	69.41	30.65
For Flat Oval, Add	2.75	
For Work In Restricted Working Space, Add	15.32	
23 31 13 13-0261 LF 22" x 22", 24 Gauge Galvanized Steel Duct	61.10	26.98
For Flat Oval, Add	2.42	
For Work In Restricted Working Space, Add	13.49	
23 31 13 13-0262 LF 22" x 24", 24 Gauge Galvanized Steel Duct	63.86	28.20
For Flat Oval, Add	2.53	
For Work In Restricted Working Space, Add	14.10	
23 31 13 13-0263 LF 22" x 26", 24 Gauge Galvanized Steel Duct	66.63	29.43
For Flat Oval, Add	2.64	
For Work In Restricted Working Space, Add	14.71	
23 31 13 13-0264 LF 22" x 28", 24 Gauge Galvanized Steel Duct	69.41	30.65
For Flat Oval, Add	2.75	
For Work In Restricted Working Space, Add	15.32	
23 31 13 13-0265 LF 22" x 30", 24 Gauge Galvanized Steel Duct	72.19	31.88
For Flat Oval, Add	2.86	
For Work In Restricted Working Space, Add	15.94	
23 31 13 13-0266 LF 24" x 24", 24 Gauge Galvanized Steel Duct	66.63	29.43
For Flat Oval, Add	2.64	
For Work In Restricted Working Space, Add	14.71	
23 31 13 13-0267 LF 24" x 26", 24 Gauge Galvanized Steel Duct	69.41	30.65
For Flat Oval, Add	2.75	
For Work In Restricted Working Space, Add	15.32	
23 31 13 13-0268 LF 24" x 28", 24 Gauge Galvanized Steel Duct	72.19	31.88
For Flat Oval, Add	2.86	
For Work In Restricted Working Space, Add	15.94	
23 31 13 13-0269 LF 24" x 30", 24 Gauge Galvanized Steel Duct	74.96	33.10
For Flat Oval, Add	2.97	
For Work In Restricted Working Space, Add	16.55	
23 31 13 13-0270 LF 26" x 26", 24 Gauge Galvanized Steel Duct	72.19	31.88
For Flat Oval, Add	2.86	
For Work In Restricted Working Space, Add	15.94	
23 31 13 13-0271 LF 26" x 28", 24 Gauge Galvanized Steel Duct	74.96	33.10
For Flat Oval, Add	2.97	
For Work In Restricted Working Space, Add	16.55	
23 31 13 13-0272 LF 26" x 30", 24 Gauge Galvanized Steel Duct	77.74	34.33
For Flat Oval, Add	3.08	
For Work In Restricted Working Space, Add	17.17	
23 31 13 13-0273 LF 28" x 28", 24 Gauge Galvanized Steel Duct	77.74	34.33
For Flat Oval, Add	3.08	
For Work In Restricted Working Space, Add	17.17	
23 31 13 13-0274 LF 28" x 30", 24 Gauge Galvanized Steel Duct	80.52	35.56
For Flat Oval, Add	3.19	
For Work In Restricted Working Space, Add	17.78	
23 31 13 13-0275 LF 30" x 30", 24 Gauge Galvanized Steel Duct	83.30	36.79
For Flat Oval, Add	3.30	
For Work In Restricted Working Space, Add	18.39	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0276 22 Gauge Galvanized Steel Duct (23 31 13 13-0009)		
23 31 13 13-0277 LF 4" x 4", 22 Gauge Galvanized Steel Duct	13.51	5.97
For Flat Oval, Add	0.54	
For Work In Restricted Working Space, Add	2.98	
23 31 13 13-0278 LF 4" x 6", 22 Gauge Galvanized Steel Duct	16.89	7.46
For Flat Oval, Add	0.67	
For Work In Restricted Working Space, Add	3.73	
23 31 13 13-0279 LF 4" x 8", 22 Gauge Galvanized Steel Duct	20.26	8.95
For Flat Oval, Add	0.80	
For Work In Restricted Working Space, Add	4.47	
23 31 13 13-0280 LF 4" x 10", 22 Gauge Galvanized Steel Duct	23.64	10.44
For Flat Oval, Add	0.94	
For Work In Restricted Working Space, Add	5.22	
23 31 13 13-0281 LF 4" x 12", 22 Gauge Galvanized Steel Duct	27.01	11.92
For Flat Oval, Add	1.07	
For Work In Restricted Working Space, Add	5.96	
23 31 13 13-0282 LF 4" x 14", 22 Gauge Galvanized Steel Duct	30.39	13.42
For Flat Oval, Add	1.20	
For Work In Restricted Working Space, Add	6.71	
23 31 13 13-0283 LF 4" x 16", 22 Gauge Galvanized Steel Duct	33.77	14.91
For Flat Oval, Add	1.34	
For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0284 LF 6" x 6", 22 Gauge Galvanized Steel Duct	20.26	8.95
For Flat Oval, Add	0.80	
For Work In Restricted Working Space, Add	4.47	
23 31 13 13-0285 LF 6" x 8", 22 Gauge Galvanized Steel Duct	23.64	10.44
For Flat Oval, Add	0.94	
For Work In Restricted Working Space, Add	5.22	
23 31 13 13-0286 LF 6" x 10", 22 Gauge Galvanized Steel Duct	27.01	11.92
For Flat Oval, Add	1.07	
For Work In Restricted Working Space, Add	5.96	
23 31 13 13-0287 LF 6" x 12", 22 Gauge Galvanized Steel Duct	30.39	13.42
For Flat Oval, Add	1.20	
For Work In Restricted Working Space, Add	6.71	
23 31 13 13-0288 LF 6" x 14", 22 Gauge Galvanized Steel Duct	33.77	14.91
For Flat Oval, Add	1.34	
For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0289 LF 6" x 16", 22 Gauge Galvanized Steel Duct	37.15	16.40
For Flat Oval, Add	1.47	
For Work In Restricted Working Space, Add	8.20	
23 31 13 13-0290 LF 8" x 8", 22 Gauge Galvanized Steel Duct	27.01	11.92
For Flat Oval, Add	1.07	
For Work In Restricted Working Space, Add	5.96	
23 31 13 13-0291 LF 8" x 10", 22 Gauge Galvanized Steel Duct	30.39	13.42
For Flat Oval, Add	1.20	
For Work In Restricted Working Space, Add	6.71	
23 31 13 13-0292 LF 8" x 12", 22 Gauge Galvanized Steel Duct	33.77	14.91
For Flat Oval, Add	1.34	
For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0293 LF 8" x 14", 22 Gauge Galvanized Steel Duct	37.15	16.40
For Flat Oval, Add	1.47	
For Work In Restricted Working Space, Add	8.20	
23 31 13 13-0294 LF 8" x 16", 22 Gauge Galvanized Steel Duct	40.52	17.90
For Flat Oval, Add	1.61	
For Work In Restricted Working Space, Add	8.95	
23 31 13 13-0295 LF 8" x 18", 22 Gauge Galvanized Steel Duct	43.90	19.39
For Flat Oval, Add	1.74	
For Work In Restricted Working Space, Add	9.69	
23 31 13 13-0296 LF 8" x 20", 22 Gauge Galvanized Steel Duct	47.27	20.88
For Flat Oval, Add	1.87	
For Work In Restricted Working Space, Add	10.44	
23 31 13 13-0297 LF 8" x 22", 22 Gauge Galvanized Steel Duct	50.66	22.37
For Flat Oval, Add	2.01	
For Work In Restricted Working Space, Add	11.19	
23 31 13 13-0298 LF 8" x 24", 22 Gauge Galvanized Steel Duct	54.02	23.87
For Flat Oval, Add	2.14	
For Work In Restricted Working Space, Add	11.93	
23 31 13 13-0299 LF 10" x 10", 22 Gauge Galvanized Steel Duct	33.77	14.91
For Flat Oval, Add	1.34	
For Work In Restricted Working Space, Add	7.46	
23 31 13 13-0300 LF 10" x 12", 22 Gauge Galvanized Steel Duct	37.15	16.40
For Flat Oval, Add	1.47	
For Work In Restricted Working Space, Add	8.20	
23 31 13 13-0301 LF 10" x 14", 22 Gauge Galvanized Steel Duct	40.52	17.90
For Flat Oval, Add	1.61	
For Work In Restricted Working Space, Add	8.95	
23 31 13 13-0302 LF 10" x 16", 22 Gauge Galvanized Steel Duct	43.90	19.39
For Flat Oval, Add	1.74	
For Work In Restricted Working Space, Add	9.69	
23 31 13 13-0303 LF 10" x 18", 22 Gauge Galvanized Steel Duct	47.27	20.88
For Flat Oval, Add	1.87	
For Work In Restricted Working Space, Add	10.44	
23 31 13 13-0304 LF 10" x 20", 22 Gauge Galvanized Steel Duct	50.66	22.37
For Flat Oval, Add	2.01	
For Work In Restricted Working Space, Add	11.19	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts And Casings			23 31

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0305 LF 10" x 22", 22 Gauge Galvanized Steel Duct	54.02	23.87
For Flat Oval, Add	2.14	
For Work In Restricted Working Space, Add	11.93	
23 31 13 13-0306 LF 10" x 24", 22 Gauge Galvanized Steel Duct	57.41	25.35
For Flat Oval, Add	2.27	
For Work In Restricted Working Space, Add	12.68	
23 31 13 13-0307 LF 10" x 26", 22 Gauge Galvanized Steel Duct	60.79	26.85
For Flat Oval, Add	2.41	
For Work In Restricted Working Space, Add	13.42	
23 31 13 13-0308 LF 10" x 28", 22 Gauge Galvanized Steel Duct	64.17	28.33
For Flat Oval, Add	2.54	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0309 LF 10" x 30", 22 Gauge Galvanized Steel Duct	67.54	29.82
For Flat Oval, Add	2.67	
For Work In Restricted Working Space, Add	14.91	
23 31 13 13-0310 LF 10" x 32", 22 Gauge Galvanized Steel Duct	70.91	31.32
For Flat Oval, Add	2.81	
For Work In Restricted Working Space, Add	15.66	
23 31 13 13-0311 LF 12" x 12", 22 Gauge Galvanized Steel Duct	40.52	17.90
For Flat Oval, Add	1.61	
For Work In Restricted Working Space, Add	8.95	
23 31 13 13-0312 LF 12" x 14", 22 Gauge Galvanized Steel Duct	43.90	19.39
For Flat Oval, Add	1.74	
For Work In Restricted Working Space, Add	9.69	
23 31 13 13-0313 LF 12" x 16", 22 Gauge Galvanized Steel Duct	47.27	20.88
For Flat Oval, Add	1.87	
For Work In Restricted Working Space, Add	10.44	
23 31 13 13-0314 LF 12" x 18", 22 Gauge Galvanized Steel Duct	50.66	22.37
For Flat Oval, Add	2.01	
For Work In Restricted Working Space, Add	11.19	
23 31 13 13-0315 LF 12" x 20", 22 Gauge Galvanized Steel Duct	54.02	23.87
For Flat Oval, Add	2.14	
For Work In Restricted Working Space, Add	11.93	
23 31 13 13-0316 LF 12" x 22", 22 Gauge Galvanized Steel Duct	57.41	25.35
For Flat Oval, Add	2.27	
For Work In Restricted Working Space, Add	12.68	
23 31 13 13-0317 LF 12" x 24", 22 Gauge Galvanized Steel Duct	60.79	26.85
For Flat Oval, Add	2.41	
For Work In Restricted Working Space, Add	13.42	
23 31 13 13-0318 LF 12" x 26", 22 Gauge Galvanized Steel Duct	64.17	28.33
For Flat Oval, Add	2.54	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0319 LF 12" x 28", 22 Gauge Galvanized Steel Duct	67.54	29.82
For Flat Oval, Add	2.67	
For Work In Restricted Working Space, Add	14.91	
23 31 13 13-0320 LF 12" x 30", 22 Gauge Galvanized Steel Duct	70.91	31.32
For Flat Oval, Add	2.81	
For Work In Restricted Working Space, Add	15.66	
23 31 13 13-0321 LF 12" x 32", 22 Gauge Galvanized Steel Duct	74.29	32.81
For Flat Oval, Add	2.94	
For Work In Restricted Working Space, Add	16.40	
23 31 13 13-0322 LF 12" x 34", 22 Gauge Galvanized Steel Duct	77.68	34.30
For Flat Oval, Add	3.08	
For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0323 LF 12" x 36", 22 Gauge Galvanized Steel Duct	81.05	35.79
For Flat Oval, Add	3.21	
For Work In Restricted Working Space, Add	17.90	
23 31 13 13-0324 LF 14" x 14", 22 Gauge Galvanized Steel Duct	47.27	20.88
For Flat Oval, Add	1.87	
For Work In Restricted Working Space, Add	10.44	
23 31 13 13-0325 LF 14" x 16", 22 Gauge Galvanized Steel Duct	50.66	22.37
For Flat Oval, Add	2.01	
For Work In Restricted Working Space, Add	11.19	
23 31 13 13-0326 LF 14" x 18", 22 Gauge Galvanized Steel Duct	54.02	23.87
For Flat Oval, Add	2.14	
For Work In Restricted Working Space, Add	11.93	
23 31 13 13-0327 LF 14" x 20", 22 Gauge Galvanized Steel Duct	57.41	25.35
For Flat Oval, Add	2.27	
For Work In Restricted Working Space, Add	12.68	
23 31 13 13-0328 LF 14" x 22", 22 Gauge Galvanized Steel Duct	60.79	26.85
For Flat Oval, Add	2.41	
For Work In Restricted Working Space, Add	13.42	
23 31 13 13-0329 LF 14" x 24", 22 Gauge Galvanized Steel Duct	64.17	28.33
For Flat Oval, Add	2.54	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0330 LF 14" x 26", 22 Gauge Galvanized Steel Duct	67.54	29.82
For Flat Oval, Add	2.67	
For Work In Restricted Working Space, Add	14.91	
23 31 13 13-0331 LF 14" x 28", 22 Gauge Galvanized Steel Duct	70.91	31.32
For Flat Oval, Add	2.81	
For Work In Restricted Working Space, Add	15.66	
23 31 13 13-0332 LF 14" x 30", 22 Gauge Galvanized Steel Duct	74.29	32.81
For Flat Oval, Add	2.94	
For Work In Restricted Working Space, Add	16.40	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0333	LF	14" x 32", 22 Gauge Galvanized Steel Duct	77.68	34.30
		For Flat Oval, Add	3.08	
		For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0334	LF	14" x 34", 22 Gauge Galvanized Steel Duct	81.05	35.79
		For Flat Oval, Add	3.21	
		For Work In Restricted Working Space, Add	17.90	
23 31 13 13-0335	LF	14" x 36", 22 Gauge Galvanized Steel Duct	84.42	37.29
		For Flat Oval, Add	3.34	
		For Work In Restricted Working Space, Add	18.64	
23 31 13 13-0336	LF	16" x 16", 22 Gauge Galvanized Steel Duct	54.02	23.87
		For Flat Oval, Add	2.14	
		For Work In Restricted Working Space, Add	11.93	
23 31 13 13-0337	LF	16" x 18", 22 Gauge Galvanized Steel Duct	57.41	25.35
		For Flat Oval, Add	2.27	
		For Work In Restricted Working Space, Add	12.68	
23 31 13 13-0338	LF	16" x 20", 22 Gauge Galvanized Steel Duct	60.79	26.85
		For Flat Oval, Add	2.41	
		For Work In Restricted Working Space, Add	13.42	
23 31 13 13-0339	LF	16" x 22", 22 Gauge Galvanized Steel Duct	64.17	28.33
		For Flat Oval, Add	2.54	
		For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0340	LF	16" x 24", 22 Gauge Galvanized Steel Duct	67.54	29.82
		For Flat Oval, Add	2.67	
		For Work In Restricted Working Space, Add	14.91	
23 31 13 13-0341	LF	16" x 26", 22 Gauge Galvanized Steel Duct	70.91	31.32
		For Flat Oval, Add	2.81	
		For Work In Restricted Working Space, Add	15.66	
23 31 13 13-0342	LF	16" x 28", 22 Gauge Galvanized Steel Duct	74.29	32.81
		For Flat Oval, Add	2.94	
		For Work In Restricted Working Space, Add	16.40	
23 31 13 13-0343	LF	16" x 30", 22 Gauge Galvanized Steel Duct	77.68	34.30
		For Flat Oval, Add	3.08	
		For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0344	LF	16" x 32", 22 Gauge Galvanized Steel Duct	81.05	35.79
		For Flat Oval, Add	3.21	
		For Work In Restricted Working Space, Add	17.90	
23 31 13 13-0345	LF	16" x 34", 22 Gauge Galvanized Steel Duct	84.42	37.29
		For Flat Oval, Add	3.34	
		For Work In Restricted Working Space, Add	18.64	
23 31 13 13-0346	LF	16" x 36", 22 Gauge Galvanized Steel Duct	87.80	38.77
		For Flat Oval, Add	3.48	
		For Work In Restricted Working Space, Add	19.39	
23 31 13 13-0347	LF	16" x 38", 22 Gauge Galvanized Steel Duct	91.18	40.27
		For Flat Oval, Add	3.61	
		For Work In Restricted Working Space, Add	20.13	
23 31 13 13-0348	LF	16" x 40", 22 Gauge Galvanized Steel Duct	94.55	41.75
		For Flat Oval, Add	3.74	
		For Work In Restricted Working Space, Add	20.88	
23 31 13 13-0349	LF	16" x 42", 22 Gauge Galvanized Steel Duct	97.92	43.25
		For Flat Oval, Add	3.88	
		For Work In Restricted Working Space, Add	21.62	
23 31 13 13-0350	LF	16" x 44", 22 Gauge Galvanized Steel Duct	101.31	44.74
		For Flat Oval, Add	4.01	
		For Work In Restricted Working Space, Add	22.37	
23 31 13 13-0351	LF	18" x 18", 22 Gauge Galvanized Steel Duct	60.79	26.85
		For Flat Oval, Add	2.41	
		For Work In Restricted Working Space, Add	13.42	
23 31 13 13-0352	LF	18" x 20", 22 Gauge Galvanized Steel Duct	64.17	28.33
		For Flat Oval, Add	2.54	
		For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0353	LF	18" x 22", 22 Gauge Galvanized Steel Duct	67.54	29.82
		For Flat Oval, Add	2.67	
		For Work In Restricted Working Space, Add	14.91	
23 31 13 13-0354	LF	18" x 24", 22 Gauge Galvanized Steel Duct	70.91	31.32
		For Flat Oval, Add	2.81	
		For Work In Restricted Working Space, Add	15.66	
23 31 13 13-0355	LF	18" x 26", 22 Gauge Galvanized Steel Duct	74.29	32.81
		For Flat Oval, Add	2.94	
		For Work In Restricted Working Space, Add	16.40	
23 31 13 13-0356	LF	18" x 28", 22 Gauge Galvanized Steel Duct	77.68	34.30
		For Flat Oval, Add	3.08	
		For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0357	LF	18" x 30", 22 Gauge Galvanized Steel Duct	81.05	35.79
		For Flat Oval, Add	3.21	
		For Work In Restricted Working Space, Add	17.90	
23 31 13 13-0358	LF	18" x 32", 22 Gauge Galvanized Steel Duct	84.42	37.29
		For Flat Oval, Add	3.34	
		For Work In Restricted Working Space, Add	18.64	
23 31 13 13-0359	LF	18" x 34", 22 Gauge Galvanized Steel Duct	87.80	38.77
		For Flat Oval, Add	3.48	
		For Work In Restricted Working Space, Add	19.39	
23 31 13 13-0360	LF	18" x 36", 22 Gauge Galvanized Steel Duct	91.18	40.27
		For Flat Oval, Add	3.61	
		For Work In Restricted Working Space, Add	20.13	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts And Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0361	LF	18" x 38", 22 Gauge Galvanized Steel Duct	94.55	41.75
			For Flat Oval, Add	3.74	
			For Work In Restricted Working Space, Add	20.88	
23 31 13	13-0362	LF	18" x 40", 22 Gauge Galvanized Steel Duct	97.92	43.25
			For Flat Oval, Add	3.88	
			For Work In Restricted Working Space, Add	21.62	
23 31 13	13-0363	LF	18" x 42", 22 Gauge Galvanized Steel Duct	101.31	44.74
			For Flat Oval, Add	4.01	
			For Work In Restricted Working Space, Add	22.37	
23 31 13	13-0364	LF	18" x 44", 22 Gauge Galvanized Steel Duct	104.69	46.22
			For Flat Oval, Add	4.15	
			For Work In Restricted Working Space, Add	23.12	
23 31 13	13-0365	LF	18" x 46", 22 Gauge Galvanized Steel Duct	108.07	47.72
			For Flat Oval, Add	4.28	
			For Work In Restricted Working Space, Add	23.86	
23 31 13	13-0366	LF	20" x 20", 22 Gauge Galvanized Steel Duct	67.54	29.82
			For Flat Oval, Add	2.67	
			For Work In Restricted Working Space, Add	14.91	
23 31 13	13-0367	LF	20" x 22", 22 Gauge Galvanized Steel Duct	70.91	31.32
			For Flat Oval, Add	2.81	
			For Work In Restricted Working Space, Add	15.66	
23 31 13	13-0368	LF	20" x 24", 22 Gauge Galvanized Steel Duct	74.29	32.81
			For Flat Oval, Add	2.94	
			For Work In Restricted Working Space, Add	16.40	
23 31 13	13-0369	LF	20" x 26", 22 Gauge Galvanized Steel Duct	77.68	34.30
			For Flat Oval, Add	3.08	
			For Work In Restricted Working Space, Add	17.15	
23 31 13	13-0370	LF	20" x 28", 22 Gauge Galvanized Steel Duct	81.05	35.79
			For Flat Oval, Add	3.21	
			For Work In Restricted Working Space, Add	17.90	
23 31 13	13-0371	LF	20" x 30", 22 Gauge Galvanized Steel Duct	84.42	37.29
			For Flat Oval, Add	3.34	
			For Work In Restricted Working Space, Add	18.64	
23 31 13	13-0372	LF	20" x 32", 22 Gauge Galvanized Steel Duct	87.80	38.77
			For Flat Oval, Add	3.48	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0373	LF	20" x 34", 22 Gauge Galvanized Steel Duct	91.18	40.27
			For Flat Oval, Add	3.61	
			For Work In Restricted Working Space, Add	20.13	
23 31 13	13-0374	LF	20" x 36", 22 Gauge Galvanized Steel Duct	94.55	41.75
			For Flat Oval, Add	3.74	
			For Work In Restricted Working Space, Add	20.88	
23 31 13	13-0375	LF	20" x 38", 22 Gauge Galvanized Steel Duct	97.92	43.25
			For Flat Oval, Add	3.88	
			For Work In Restricted Working Space, Add	21.62	
23 31 13	13-0376	LF	20" x 40", 22 Gauge Galvanized Steel Duct	101.31	44.74
			For Flat Oval, Add	4.01	
			For Work In Restricted Working Space, Add	22.37	
23 31 13	13-0377	LF	20" x 42", 22 Gauge Galvanized Steel Duct	104.69	46.22
			For Flat Oval, Add	4.15	
			For Work In Restricted Working Space, Add	23.12	
23 31 13	13-0378	LF	20" x 44", 22 Gauge Galvanized Steel Duct	108.07	47.72
			For Flat Oval, Add	4.28	
			For Work In Restricted Working Space, Add	23.86	
23 31 13	13-0379	LF	20" x 46", 22 Gauge Galvanized Steel Duct	111.43	49.21
			For Flat Oval, Add	4.41	
			For Work In Restricted Working Space, Add	24.60	
23 31 13	13-0380	LF	20" x 48", 22 Gauge Galvanized Steel Duct	114.81	50.70
			For Flat Oval, Add	4.55	
			For Work In Restricted Working Space, Add	25.35	
23 31 13	13-0381	LF	22" x 22", 22 Gauge Galvanized Steel Duct	74.29	32.81
			For Flat Oval, Add	2.94	
			For Work In Restricted Working Space, Add	16.40	
23 31 13	13-0382	LF	22" x 24", 22 Gauge Galvanized Steel Duct	77.68	34.30
			For Flat Oval, Add	3.08	
			For Work In Restricted Working Space, Add	17.15	
23 31 13	13-0383	LF	22" x 26", 22 Gauge Galvanized Steel Duct	81.05	35.79
			For Flat Oval, Add	3.21	
			For Work In Restricted Working Space, Add	17.90	
23 31 13	13-0384	LF	22" x 28", 22 Gauge Galvanized Steel Duct	84.42	37.29
			For Flat Oval, Add	3.34	
			For Work In Restricted Working Space, Add	18.64	
23 31 13	13-0385	LF	22" x 30", 22 Gauge Galvanized Steel Duct	87.80	38.77
			For Flat Oval, Add	3.48	
			For Work In Restricted Working Space, Add	19.39	
23 31 13	13-0386	LF	22" x 32", 22 Gauge Galvanized Steel Duct	91.18	40.27
			For Flat Oval, Add	3.61	
			For Work In Restricted Working Space, Add	20.13	
23 31 13	13-0387	LF	22" x 34", 22 Gauge Galvanized Steel Duct	94.55	41.75
			For Flat Oval, Add	3.74	
			For Work In Restricted Working Space, Add	20.88	
23 31 13	13-0388	LF	22" x 36", 22 Gauge Galvanized Steel Duct	97.92	43.25
			For Flat Oval, Add	3.88	
			For Work In Restricted Working Space, Add	21.62	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0389 LF 22" x 38", 22 Gauge Galvanized Steel Duct	101.31	44.74
For Flat Oval, Add	4.01	
For Work In Restricted Working Space, Add	22.37	
23 31 13 13-0390 LF 22" x 40", 22 Gauge Galvanized Steel Duct	104.69	46.22
For Flat Oval, Add	4.15	
For Work In Restricted Working Space, Add	23.12	
23 31 13 13-0391 LF 22" x 42", 22 Gauge Galvanized Steel Duct	108.07	47.72
For Flat Oval, Add	4.28	
For Work In Restricted Working Space, Add	23.86	
23 31 13 13-0392 LF 22" x 44", 22 Gauge Galvanized Steel Duct	111.43	49.21
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.60	
23 31 13 13-0393 LF 22" x 46", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0394 LF 22" x 48", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	
23 31 13 13-0395 LF 24" x 24", 22 Gauge Galvanized Steel Duct	81.05	35.79
For Flat Oval, Add	3.21	
For Work In Restricted Working Space, Add	17.90	
23 31 13 13-0396 LF 24" x 26", 22 Gauge Galvanized Steel Duct	84.42	37.29
For Flat Oval, Add	3.34	
For Work In Restricted Working Space, Add	18.64	
23 31 13 13-0397 LF 24" x 28", 22 Gauge Galvanized Steel Duct	87.80	38.77
For Flat Oval, Add	3.48	
For Work In Restricted Working Space, Add	19.39	
23 31 13 13-0398 LF 24" x 30", 22 Gauge Galvanized Steel Duct	91.18	40.27
For Flat Oval, Add	3.61	
For Work In Restricted Working Space, Add	20.13	
23 31 13 13-0399 LF 24" x 32", 22 Gauge Galvanized Steel Duct	94.55	41.75
For Flat Oval, Add	3.74	
For Work In Restricted Working Space, Add	20.88	
23 31 13 13-0400 LF 24" x 34", 22 Gauge Galvanized Steel Duct	97.92	43.25
For Flat Oval, Add	3.88	
For Work In Restricted Working Space, Add	21.62	
23 31 13 13-0401 LF 24" x 36", 22 Gauge Galvanized Steel Duct	101.31	44.74
For Flat Oval, Add	4.01	
For Work In Restricted Working Space, Add	22.37	
23 31 13 13-0402 LF 24" x 38", 22 Gauge Galvanized Steel Duct	104.69	46.22
For Flat Oval, Add	4.15	
For Work In Restricted Working Space, Add	23.12	
23 31 13 13-0403 LF 24" x 40", 22 Gauge Galvanized Steel Duct	108.07	47.72
For Flat Oval, Add	4.28	
For Work In Restricted Working Space, Add	23.86	
23 31 13 13-0404 LF 24" x 42", 22 Gauge Galvanized Steel Duct	111.43	49.21
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.60	
23 31 13 13-0405 LF 24" x 44", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0406 LF 24" x 46", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	
23 31 13 13-0407 LF 24" x 48", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0408 LF 26" x 26", 22 Gauge Galvanized Steel Duct	87.80	38.77
For Flat Oval, Add	3.48	
For Work In Restricted Working Space, Add	19.39	
23 31 13 13-0409 LF 26" x 28", 22 Gauge Galvanized Steel Duct	91.18	40.27
For Flat Oval, Add	3.61	
For Work In Restricted Working Space, Add	20.13	
23 31 13 13-0410 LF 26" x 30", 22 Gauge Galvanized Steel Duct	94.55	41.75
For Flat Oval, Add	3.74	
For Work In Restricted Working Space, Add	20.88	
23 31 13 13-0411 LF 26" x 32", 22 Gauge Galvanized Steel Duct	97.92	43.25
For Flat Oval, Add	3.88	
For Work In Restricted Working Space, Add	21.62	
23 31 13 13-0412 LF 26" x 34", 22 Gauge Galvanized Steel Duct	101.31	44.74
For Flat Oval, Add	4.01	
For Work In Restricted Working Space, Add	22.37	
23 31 13 13-0413 LF 26" x 36", 22 Gauge Galvanized Steel Duct	104.69	46.22
For Flat Oval, Add	4.15	
For Work In Restricted Working Space, Add	23.12	
23 31 13 13-0414 LF 26" x 38", 22 Gauge Galvanized Steel Duct	108.07	47.72
For Flat Oval, Add	4.28	
For Work In Restricted Working Space, Add	23.86	
23 31 13 13-0415 LF 26" x 40", 22 Gauge Galvanized Steel Duct	111.43	49.21
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.60	
23 31 13 13-0416 LF 26" x 42", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts And Casings		23 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0417 LF 26" x 44", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	
23 31 13 13-0418 LF 26" x 46", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0419 LF 26" x 48", 22 Gauge Galvanized Steel Duct	124.95	55.17
For Flat Oval, Add	4.95	
For Work In Restricted Working Space, Add	27.59	
23 31 13 13-0420 LF 28" x 28", 22 Gauge Galvanized Steel Duct	94.55	41.75
For Flat Oval, Add	3.74	
For Work In Restricted Working Space, Add	20.88	
23 31 13 13-0421 LF 28" x 30", 22 Gauge Galvanized Steel Duct	97.92	43.25
For Flat Oval, Add	3.88	
For Work In Restricted Working Space, Add	21.62	
23 31 13 13-0422 LF 28" x 32", 22 Gauge Galvanized Steel Duct	101.31	44.74
For Flat Oval, Add	4.01	
For Work In Restricted Working Space, Add	22.37	
23 31 13 13-0423 LF 28" x 34", 22 Gauge Galvanized Steel Duct	104.69	46.22
For Flat Oval, Add	4.15	
For Work In Restricted Working Space, Add	23.12	
23 31 13 13-0424 LF 28" x 36", 22 Gauge Galvanized Steel Duct	108.07	47.72
For Flat Oval, Add	4.28	
For Work In Restricted Working Space, Add	23.86	
23 31 13 13-0425 LF 28" x 38", 22 Gauge Galvanized Steel Duct	111.43	49.21
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.60	
23 31 13 13-0426 LF 28" x 40", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0427 LF 28" x 42", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	
23 31 13 13-0428 LF 28" x 44", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0429 LF 28" x 46", 22 Gauge Galvanized Steel Duct	124.95	55.17
For Flat Oval, Add	4.95	
For Work In Restricted Working Space, Add	27.59	
23 31 13 13-0430 LF 28" x 48", 22 Gauge Galvanized Steel Duct	128.32	56.67
For Flat Oval, Add	5.08	
For Work In Restricted Working Space, Add	28.33	
23 31 13 13-0431 LF 30" x 30", 22 Gauge Galvanized Steel Duct	101.31	44.74
For Flat Oval, Add	4.01	
For Work In Restricted Working Space, Add	22.37	
23 31 13 13-0432 LF 30" x 32", 22 Gauge Galvanized Steel Duct	104.69	46.22
For Flat Oval, Add	4.15	
For Work In Restricted Working Space, Add	23.12	
23 31 13 13-0433 LF 30" x 34", 22 Gauge Galvanized Steel Duct	108.07	47.72
For Flat Oval, Add	4.28	
For Work In Restricted Working Space, Add	23.86	
23 31 13 13-0434 LF 30" x 36", 22 Gauge Galvanized Steel Duct	111.43	49.21
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.60	
23 31 13 13-0435 LF 30" x 38", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0436 LF 30" x 40", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	
23 31 13 13-0437 LF 30" x 42", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0438 LF 30" x 44", 22 Gauge Galvanized Steel Duct	124.95	55.17
For Flat Oval, Add	4.95	
For Work In Restricted Working Space, Add	27.59	
23 31 13 13-0439 LF 30" x 46", 22 Gauge Galvanized Steel Duct	128.32	56.67
For Flat Oval, Add	5.08	
For Work In Restricted Working Space, Add	28.33	
23 31 13 13-0440 LF 30" x 48", 22 Gauge Galvanized Steel Duct	131.71	58.16
For Flat Oval, Add	5.22	
For Work In Restricted Working Space, Add	29.08	
23 31 13 13-0441 LF 32" x 32", 22 Gauge Galvanized Steel Duct	108.07	47.72
For Flat Oval, Add	4.28	
For Work In Restricted Working Space, Add	23.86	
23 31 13 13-0442 LF 32" x 34", 22 Gauge Galvanized Steel Duct	111.43	49.21
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.60	
23 31 13 13-0443 LF 32" x 36", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0444 LF 32" x 38", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0445 LF 32" x 40", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0446 LF 32" x 42", 22 Gauge Galvanized Steel Duct	124.95	55.17
For Flat Oval, Add	4.95	
For Work In Restricted Working Space, Add	27.59	
23 31 13 13-0447 LF 32" x 44", 22 Gauge Galvanized Steel Duct	128.32	56.67
For Flat Oval, Add	5.08	
For Work In Restricted Working Space, Add	28.33	
23 31 13 13-0448 LF 32" x 46", 22 Gauge Galvanized Steel Duct	131.71	58.16
For Flat Oval, Add	5.22	
For Work In Restricted Working Space, Add	29.08	
23 31 13 13-0449 LF 32" x 48", 22 Gauge Galvanized Steel Duct	135.08	59.65
For Flat Oval, Add	5.35	
For Work In Restricted Working Space, Add	29.83	
23 31 13 13-0450 LF 34" x 34", 22 Gauge Galvanized Steel Duct	114.81	50.70
For Flat Oval, Add	4.55	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0451 LF 34" x 36", 22 Gauge Galvanized Steel Duct	118.20	52.19
For Flat Oval, Add	4.68	
For Work In Restricted Working Space, Add	26.10	
23 31 13 13-0452 LF 34" x 38", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0453 LF 34" x 40", 22 Gauge Galvanized Steel Duct	124.95	55.17
For Flat Oval, Add	4.95	
For Work In Restricted Working Space, Add	27.59	
23 31 13 13-0454 LF 34" x 42", 22 Gauge Galvanized Steel Duct	128.32	56.67
For Flat Oval, Add	5.08	
For Work In Restricted Working Space, Add	28.33	
23 31 13 13-0455 LF 34" x 44", 22 Gauge Galvanized Steel Duct	131.71	58.16
For Flat Oval, Add	5.22	
For Work In Restricted Working Space, Add	29.08	
23 31 13 13-0456 LF 34" x 46", 22 Gauge Galvanized Steel Duct	135.08	59.65
For Flat Oval, Add	5.35	
For Work In Restricted Working Space, Add	29.83	
23 31 13 13-0457 LF 34" x 48", 22 Gauge Galvanized Steel Duct	138.45	61.15
For Flat Oval, Add	5.48	
For Work In Restricted Working Space, Add	30.57	
23 31 13 13-0458 LF 36" x 36", 22 Gauge Galvanized Steel Duct	121.58	53.69
For Flat Oval, Add	4.82	
For Work In Restricted Working Space, Add	26.84	
23 31 13 13-0459 LF 36" x 38", 22 Gauge Galvanized Steel Duct	124.95	55.17
For Flat Oval, Add	4.95	
For Work In Restricted Working Space, Add	27.59	
23 31 13 13-0460 LF 36" x 40", 22 Gauge Galvanized Steel Duct	128.32	56.67
For Flat Oval, Add	5.08	
For Work In Restricted Working Space, Add	28.33	
23 31 13 13-0461 LF 36" x 42", 22 Gauge Galvanized Steel Duct	131.71	58.16
For Flat Oval, Add	5.22	
For Work In Restricted Working Space, Add	29.08	
23 31 13 13-0462 LF 36" x 44", 22 Gauge Galvanized Steel Duct	135.08	59.65
For Flat Oval, Add	5.35	
For Work In Restricted Working Space, Add	29.83	
23 31 13 13-0463 LF 36" x 46", 22 Gauge Galvanized Steel Duct	138.45	61.15
For Flat Oval, Add	5.48	
For Work In Restricted Working Space, Add	30.57	
23 31 13 13-0464 LF 36" x 48", 22 Gauge Galvanized Steel Duct	141.82	62.64
For Flat Oval, Add	5.62	
For Work In Restricted Working Space, Add	31.31	
23 31 13 13-0465 LF 38" x 38", 22 Gauge Galvanized Steel Duct	128.32	56.67
For Flat Oval, Add	5.08	
For Work In Restricted Working Space, Add	28.33	
23 31 13 13-0466 LF 38" x 40", 22 Gauge Galvanized Steel Duct	131.71	58.16
For Flat Oval, Add	5.22	
For Work In Restricted Working Space, Add	29.08	
23 31 13 13-0467 LF 38" x 42", 22 Gauge Galvanized Steel Duct	135.08	59.65
For Flat Oval, Add	5.35	
For Work In Restricted Working Space, Add	29.83	
23 31 13 13-0468 LF 38" x 44", 22 Gauge Galvanized Steel Duct	138.45	61.15
For Flat Oval, Add	5.48	
For Work In Restricted Working Space, Add	30.57	
23 31 13 13-0469 LF 38" x 46", 22 Gauge Galvanized Steel Duct	141.82	62.64
For Flat Oval, Add	5.62	
For Work In Restricted Working Space, Add	31.31	
23 31 13 13-0470 LF 38" x 48", 22 Gauge Galvanized Steel Duct	145.22	64.12
For Flat Oval, Add	5.75	
For Work In Restricted Working Space, Add	32.06	
23 31 13 13-0471 LF 38" x 50", 22 Gauge Galvanized Steel Duct	148.59	65.61
For Flat Oval, Add	5.88	
For Work In Restricted Working Space, Add	32.81	
23 31 13 13-0472 LF 40" x 40", 22 Gauge Galvanized Steel Duct	135.08	59.65
For Flat Oval, Add	5.35	
For Work In Restricted Working Space, Add	29.83	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0473 LF 40" x 42", 22 Gauge Galvanized Steel Duct	138.45	61.15
For Flat Oval, Add	5.48	
For Work In Restricted Working Space, Add	30.57	
23 31 13 13-0474 LF 40" x 44", 22 Gauge Galvanized Steel Duct	141.82	62.64
For Flat Oval, Add	5.62	
For Work In Restricted Working Space, Add	31.31	
23 31 13 13-0475 LF 40" x 46", 22 Gauge Galvanized Steel Duct	145.22	64.12
For Flat Oval, Add	5.75	
For Work In Restricted Working Space, Add	32.06	
23 31 13 13-0476 LF 40" x 48", 22 Gauge Galvanized Steel Duct	148.59	65.61
For Flat Oval, Add	5.88	
For Work In Restricted Working Space, Add	32.81	
23 31 13 13-0477 LF 40" x 50", 22 Gauge Galvanized Steel Duct	151.97	67.11
For Flat Oval, Add	6.02	
For Work In Restricted Working Space, Add	33.56	
23 31 13 13-0478 LF 40" x 52", 22 Gauge Galvanized Steel Duct	155.33	68.59
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0479 LF 40" x 54", 22 Gauge Galvanized Steel Duct	158.72	70.09
For Flat Oval, Add	6.29	
For Work In Restricted Working Space, Add	35.05	
23 31 13 13-0480 LF 42" x 42", 22 Gauge Galvanized Steel Duct	141.82	62.64
For Flat Oval, Add	5.62	
For Work In Restricted Working Space, Add	31.31	
23 31 13 13-0481 LF 42" x 44", 22 Gauge Galvanized Steel Duct	145.22	64.12
For Flat Oval, Add	5.75	
For Work In Restricted Working Space, Add	32.06	
23 31 13 13-0482 LF 42" x 46", 22 Gauge Galvanized Steel Duct	148.59	65.61
For Flat Oval, Add	5.88	
For Work In Restricted Working Space, Add	32.81	
23 31 13 13-0483 LF 42" x 48", 22 Gauge Galvanized Steel Duct	151.97	67.11
For Flat Oval, Add	6.02	
For Work In Restricted Working Space, Add	33.56	
23 31 13 13-0484 LF 42" x 50", 22 Gauge Galvanized Steel Duct	155.33	68.59
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0485 LF 42" x 52", 22 Gauge Galvanized Steel Duct	158.72	70.09
For Flat Oval, Add	6.29	
For Work In Restricted Working Space, Add	35.05	
23 31 13 13-0486 LF 42" x 54", 22 Gauge Galvanized Steel Duct	162.09	71.58
For Flat Oval, Add	6.42	
For Work In Restricted Working Space, Add	35.79	
23 31 13 13-0487 LF 44" x 44", 22 Gauge Galvanized Steel Duct	148.59	65.61
For Flat Oval, Add	5.88	
For Work In Restricted Working Space, Add	32.81	
23 31 13 13-0488 LF 44" x 46", 22 Gauge Galvanized Steel Duct	151.97	67.11
For Flat Oval, Add	6.02	
For Work In Restricted Working Space, Add	33.56	
23 31 13 13-0489 LF 44" x 48", 22 Gauge Galvanized Steel Duct	155.33	68.59
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0490 LF 44" x 50", 22 Gauge Galvanized Steel Duct	158.72	70.09
For Flat Oval, Add	6.29	
For Work In Restricted Working Space, Add	35.05	
23 31 13 13-0491 LF 44" x 52", 22 Gauge Galvanized Steel Duct	162.09	71.58
For Flat Oval, Add	6.42	
For Work In Restricted Working Space, Add	35.79	
23 31 13 13-0492 LF 44" x 54", 22 Gauge Galvanized Steel Duct	165.48	73.07
For Flat Oval, Add	6.55	
For Work In Restricted Working Space, Add	36.54	
23 31 13 13-0493 LF 46" x 46", 22 Gauge Galvanized Steel Duct	155.33	68.59
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0494 LF 46" x 48", 22 Gauge Galvanized Steel Duct	158.72	70.09
For Flat Oval, Add	6.29	
For Work In Restricted Working Space, Add	35.05	
23 31 13 13-0495 LF 46" x 50", 22 Gauge Galvanized Steel Duct	162.09	71.58
For Flat Oval, Add	6.42	
For Work In Restricted Working Space, Add	35.79	
23 31 13 13-0496 LF 46" x 52", 22 Gauge Galvanized Steel Duct	165.48	73.07
For Flat Oval, Add	6.55	
For Work In Restricted Working Space, Add	36.54	
23 31 13 13-0497 LF 46" x 54", 22 Gauge Galvanized Steel Duct	168.84	74.56
For Flat Oval, Add	6.69	
For Work In Restricted Working Space, Add	37.28	
23 31 13 13-0498 LF 48" x 48", 22 Gauge Galvanized Steel Duct	162.09	71.58
For Flat Oval, Add	6.42	
For Work In Restricted Working Space, Add	35.79	
23 31 13 13-0499 LF 48" x 50", 22 Gauge Galvanized Steel Duct	165.48	73.07
For Flat Oval, Add	6.55	
For Work In Restricted Working Space, Add	36.54	
23 31 13 13-0500 LF 48" x 52", 22 Gauge Galvanized Steel Duct	168.84	74.56
For Flat Oval, Add	6.69	
For Work In Restricted Working Space, Add	37.28	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0501 LF 48" x 54", 22 Gauge Galvanized Steel Duct .....172.23		76.06
For Flat Oval, Add	6.82	
For Work In Restricted Working Space, Add	38.03	
23 31 13 13-0502 LF 50" x 50", 22 Gauge Galvanized Steel Duct .....168.84		74.56
For Flat Oval, Add	6.69	
For Work In Restricted Working Space, Add	37.28	
23 31 13 13-0503 LF 50" x 52", 22 Gauge Galvanized Steel Duct .....172.23		76.06
For Flat Oval, Add	6.82	
For Work In Restricted Working Space, Add	38.03	
23 31 13 13-0504 LF 50" x 54", 22 Gauge Galvanized Steel Duct .....175.61		77.55
For Flat Oval, Add	6.95	
For Work In Restricted Working Space, Add	38.78	
23 31 13 13-0505 LF 52" x 52", 22 Gauge Galvanized Steel Duct .....175.61		77.55
For Flat Oval, Add	6.95	
For Work In Restricted Working Space, Add	38.78	
23 31 13 13-0506 LF 52" x 54", 22 Gauge Galvanized Steel Duct .....178.98		79.04
For Flat Oval, Add	7.09	
For Work In Restricted Working Space, Add	39.52	
23 31 13 13-0507 LF 54" x 54", 22 Gauge Galvanized Steel Duct .....182.36		80.54
For Flat Oval, Add	7.22	
For Work In Restricted Working Space, Add	40.27	
23 31 13 13-0508 20 Gauge Galvanized Steel Duct (23 31 13 13-0009)		
23 31 13 13-0509 LF 4" x 4", 20 Gauge Galvanized Steel Duct .....15.90		7.02
For Flat Oval, Add	0.63	
For Work In Restricted Working Space, Add	3.51	
23 31 13 13-0510 LF 4" x 6", 20 Gauge Galvanized Steel Duct .....19.89		8.78
For Flat Oval, Add	0.79	
For Work In Restricted Working Space, Add	4.39	
23 31 13 13-0511 LF 4" x 8", 20 Gauge Galvanized Steel Duct .....23.88		10.53
For Flat Oval, Add	0.95	
For Work In Restricted Working Space, Add	5.27	
23 31 13 13-0512 LF 4" x 10", 20 Gauge Galvanized Steel Duct .....27.84		12.30
For Flat Oval, Add	1.10	
For Work In Restricted Working Space, Add	6.15	
23 31 13 13-0513 LF 4" x 12", 20 Gauge Galvanized Steel Duct .....31.82		14.05
For Flat Oval, Add	1.26	
For Work In Restricted Working Space, Add	7.03	
23 31 13 13-0514 LF 4" x 14", 20 Gauge Galvanized Steel Duct .....35.80		15.81
For Flat Oval, Add	1.42	
For Work In Restricted Working Space, Add	7.90	
23 31 13 13-0515 LF 4" x 16", 20 Gauge Galvanized Steel Duct .....39.77		17.57
For Flat Oval, Add	1.58	
For Work In Restricted Working Space, Add	8.78	
23 31 13 13-0516 LF 6" x 6", 20 Gauge Galvanized Steel Duct .....23.88		10.53
For Flat Oval, Add	0.95	
For Work In Restricted Working Space, Add	5.27	
23 31 13 13-0517 LF 6" x 8", 20 Gauge Galvanized Steel Duct .....27.84		12.30
For Flat Oval, Add	1.10	
For Work In Restricted Working Space, Add	6.15	
23 31 13 13-0518 LF 6" x 10", 20 Gauge Galvanized Steel Duct .....31.82		14.05
For Flat Oval, Add	1.26	
For Work In Restricted Working Space, Add	7.03	
23 31 13 13-0519 LF 6" x 12", 20 Gauge Galvanized Steel Duct .....35.80		15.81
For Flat Oval, Add	1.42	
For Work In Restricted Working Space, Add	7.90	
23 31 13 13-0520 LF 6" x 14", 20 Gauge Galvanized Steel Duct .....39.77		17.57
For Flat Oval, Add	1.58	
For Work In Restricted Working Space, Add	8.78	
23 31 13 13-0521 LF 6" x 16", 20 Gauge Galvanized Steel Duct .....43.75		19.32
For Flat Oval, Add	1.73	
For Work In Restricted Working Space, Add	9.66	
23 31 13 13-0522 LF 8" x 8", 20 Gauge Galvanized Steel Duct .....31.82		14.05
For Flat Oval, Add	1.26	
For Work In Restricted Working Space, Add	7.03	
23 31 13 13-0523 LF 8" x 10", 20 Gauge Galvanized Steel Duct .....35.80		15.81
For Flat Oval, Add	1.42	
For Work In Restricted Working Space, Add	7.90	
23 31 13 13-0524 LF 8" x 12", 20 Gauge Galvanized Steel Duct .....39.77		17.57
For Flat Oval, Add	1.58	
For Work In Restricted Working Space, Add	8.78	
23 31 13 13-0525 LF 8" x 14", 20 Gauge Galvanized Steel Duct .....43.75		19.32
For Flat Oval, Add	1.73	
For Work In Restricted Working Space, Add	9.66	
23 31 13 13-0526 LF 8" x 16", 20 Gauge Galvanized Steel Duct .....47.72		21.08
For Flat Oval, Add	1.89	
For Work In Restricted Working Space, Add	10.54	
23 31 13 13-0527 LF 8" x 18", 20 Gauge Galvanized Steel Duct .....51.70		22.83
For Flat Oval, Add	2.05	
For Work In Restricted Working Space, Add	11.42	
23 31 13 13-0528 LF 8" x 20", 20 Gauge Galvanized Steel Duct .....55.69		24.59
For Flat Oval, Add	2.21	
For Work In Restricted Working Space, Add	12.29	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts And Casings			23 31

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0529 LF 8" x 22", 20 Gauge Galvanized Steel Duct	59.66	26.34
For Flat Oval, Add	2.36	
For Work In Restricted Working Space, Add	13.17	
23 31 13 13-0530 LF 8" x 24", 20 Gauge Galvanized Steel Duct	63.64	28.10
For Flat Oval, Add	2.52	
For Work In Restricted Working Space, Add	14.05	
23 31 13 13-0531 LF 10" x 10", 20 Gauge Galvanized Steel Duct	39.77	17.57
For Flat Oval, Add	1.58	
For Work In Restricted Working Space, Add	8.78	
23 31 13 13-0532 LF 10" x 12", 20 Gauge Galvanized Steel Duct	43.75	19.32
For Flat Oval, Add	1.73	
For Work In Restricted Working Space, Add	9.66	
23 31 13 13-0533 LF 10" x 14", 20 Gauge Galvanized Steel Duct	47.72	21.08
For Flat Oval, Add	1.89	
For Work In Restricted Working Space, Add	10.54	
23 31 13 13-0534 LF 10" x 16", 20 Gauge Galvanized Steel Duct	51.70	22.83
For Flat Oval, Add	2.05	
For Work In Restricted Working Space, Add	11.42	
23 31 13 13-0535 LF 10" x 18", 20 Gauge Galvanized Steel Duct	55.69	24.59
For Flat Oval, Add	2.21	
For Work In Restricted Working Space, Add	12.29	
23 31 13 13-0536 LF 10" x 20", 20 Gauge Galvanized Steel Duct	59.66	26.34
For Flat Oval, Add	2.36	
For Work In Restricted Working Space, Add	13.17	
23 31 13 13-0537 LF 10" x 22", 20 Gauge Galvanized Steel Duct	63.64	28.10
For Flat Oval, Add	2.52	
For Work In Restricted Working Space, Add	14.05	
23 31 13 13-0538 LF 10" x 24", 20 Gauge Galvanized Steel Duct	67.63	29.86
For Flat Oval, Add	2.68	
For Work In Restricted Working Space, Add	14.93	
23 31 13 13-0539 LF 10" x 26", 20 Gauge Galvanized Steel Duct	71.59	31.61
For Flat Oval, Add	2.84	
For Work In Restricted Working Space, Add	15.81	
23 31 13 13-0540 LF 10" x 28", 20 Gauge Galvanized Steel Duct	75.58	33.38
For Flat Oval, Add	2.99	
For Work In Restricted Working Space, Add	16.69	
23 31 13 13-0541 LF 10" x 30", 20 Gauge Galvanized Steel Duct	79.54	35.13
For Flat Oval, Add	3.15	
For Work In Restricted Working Space, Add	17.57	
23 31 13 13-0542 LF 10" x 32", 20 Gauge Galvanized Steel Duct	83.53	36.89
For Flat Oval, Add	3.31	
For Work In Restricted Working Space, Add	18.44	
23 31 13 13-0543 LF 12" x 12", 20 Gauge Galvanized Steel Duct	47.72	21.08
For Flat Oval, Add	1.89	
For Work In Restricted Working Space, Add	10.54	
23 31 13 13-0544 LF 12" x 14", 20 Gauge Galvanized Steel Duct	51.70	22.83
For Flat Oval, Add	2.05	
For Work In Restricted Working Space, Add	11.42	
23 31 13 13-0545 LF 12" x 16", 20 Gauge Galvanized Steel Duct	55.69	24.59
For Flat Oval, Add	2.21	
For Work In Restricted Working Space, Add	12.29	
23 31 13 13-0546 LF 12" x 18", 20 Gauge Galvanized Steel Duct	59.66	26.34
For Flat Oval, Add	2.36	
For Work In Restricted Working Space, Add	13.17	
23 31 13 13-0547 LF 12" x 20", 20 Gauge Galvanized Steel Duct	63.64	28.10
For Flat Oval, Add	2.52	
For Work In Restricted Working Space, Add	14.05	
23 31 13 13-0548 LF 12" x 22", 20 Gauge Galvanized Steel Duct	67.63	29.86
For Flat Oval, Add	2.68	
For Work In Restricted Working Space, Add	14.93	
23 31 13 13-0549 LF 12" x 24", 20 Gauge Galvanized Steel Duct	71.59	31.61
For Flat Oval, Add	2.84	
For Work In Restricted Working Space, Add	15.81	
23 31 13 13-0550 LF 12" x 26", 20 Gauge Galvanized Steel Duct	75.58	33.38
For Flat Oval, Add	2.99	
For Work In Restricted Working Space, Add	16.69	
23 31 13 13-0551 LF 12" x 28", 20 Gauge Galvanized Steel Duct	79.54	35.13
For Flat Oval, Add	3.15	
For Work In Restricted Working Space, Add	17.57	
23 31 13 13-0552 LF 12" x 30", 20 Gauge Galvanized Steel Duct	83.53	36.89
For Flat Oval, Add	3.31	
For Work In Restricted Working Space, Add	18.44	
23 31 13 13-0553 LF 12" x 32", 20 Gauge Galvanized Steel Duct	87.52	38.64
For Flat Oval, Add	3.47	
For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0554 LF 12" x 34", 20 Gauge Galvanized Steel Duct	91.48	40.40
For Flat Oval, Add	3.62	
For Work In Restricted Working Space, Add	20.20	
23 31 13 13-0555 LF 12" x 36", 20 Gauge Galvanized Steel Duct	95.46	42.16
For Flat Oval, Add	3.78	
For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0556 LF 14" x 14", 20 Gauge Galvanized Steel Duct	55.69	24.59
For Flat Oval, Add	2.21	
For Work In Restricted Working Space, Add	12.29	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0557	LF	14" x 16", 20 Gauge Galvanized Steel Duct	59.66	26.34
		For Flat Oval, Add	2.36	
		For Work In Restricted Working Space, Add	13.17	
23 31 13 13-0558	LF	14" x 18", 20 Gauge Galvanized Steel Duct	63.64	28.10
		For Flat Oval, Add	2.52	
		For Work In Restricted Working Space, Add	14.05	
23 31 13 13-0559	LF	14" x 20", 20 Gauge Galvanized Steel Duct	67.63	29.86
		For Flat Oval, Add	2.68	
		For Work In Restricted Working Space, Add	14.93	
23 31 13 13-0560	LF	14" x 22", 20 Gauge Galvanized Steel Duct	71.59	31.61
		For Flat Oval, Add	2.84	
		For Work In Restricted Working Space, Add	15.81	
23 31 13 13-0561	LF	14" x 24", 20 Gauge Galvanized Steel Duct	75.58	33.38
		For Flat Oval, Add	2.99	
		For Work In Restricted Working Space, Add	16.69	
23 31 13 13-0562	LF	14" x 26", 20 Gauge Galvanized Steel Duct	79.54	35.13
		For Flat Oval, Add	3.15	
		For Work In Restricted Working Space, Add	17.57	
23 31 13 13-0563	LF	14" x 28", 20 Gauge Galvanized Steel Duct	83.53	36.89
		For Flat Oval, Add	3.31	
		For Work In Restricted Working Space, Add	18.44	
23 31 13 13-0564	LF	14" x 30", 20 Gauge Galvanized Steel Duct	87.52	38.64
		For Flat Oval, Add	3.47	
		For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0565	LF	14" x 32", 20 Gauge Galvanized Steel Duct	91.48	40.40
		For Flat Oval, Add	3.62	
		For Work In Restricted Working Space, Add	20.20	
23 31 13 13-0566	LF	14" x 34", 20 Gauge Galvanized Steel Duct	95.46	42.16
		For Flat Oval, Add	3.78	
		For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0567	LF	14" x 36", 20 Gauge Galvanized Steel Duct	99.42	43.91
		For Flat Oval, Add	3.94	
		For Work In Restricted Working Space, Add	21.95	
23 31 13 13-0568	LF	16" x 16", 20 Gauge Galvanized Steel Duct	63.64	28.10
		For Flat Oval, Add	2.52	
		For Work In Restricted Working Space, Add	14.05	
23 31 13 13-0569	LF	16" x 18", 20 Gauge Galvanized Steel Duct	67.63	29.86
		For Flat Oval, Add	2.68	
		For Work In Restricted Working Space, Add	14.93	
23 31 13 13-0570	LF	16" x 20", 20 Gauge Galvanized Steel Duct	71.59	31.61
		For Flat Oval, Add	2.84	
		For Work In Restricted Working Space, Add	15.81	
23 31 13 13-0571	LF	16" x 22", 20 Gauge Galvanized Steel Duct	75.58	33.38
		For Flat Oval, Add	2.99	
		For Work In Restricted Working Space, Add	16.69	
23 31 13 13-0572	LF	16" x 24", 20 Gauge Galvanized Steel Duct	79.54	35.13
		For Flat Oval, Add	3.15	
		For Work In Restricted Working Space, Add	17.57	
23 31 13 13-0573	LF	16" x 26", 20 Gauge Galvanized Steel Duct	83.53	36.89
		For Flat Oval, Add	3.31	
		For Work In Restricted Working Space, Add	18.44	
23 31 13 13-0574	LF	16" x 28", 20 Gauge Galvanized Steel Duct	87.52	38.64
		For Flat Oval, Add	3.47	
		For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0575	LF	16" x 30", 20 Gauge Galvanized Steel Duct	91.48	40.40
		For Flat Oval, Add	3.62	
		For Work In Restricted Working Space, Add	20.20	
23 31 13 13-0576	LF	16" x 32", 20 Gauge Galvanized Steel Duct	95.46	42.16
		For Flat Oval, Add	3.78	
		For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0577	LF	16" x 34", 20 Gauge Galvanized Steel Duct	99.42	43.91
		For Flat Oval, Add	3.94	
		For Work In Restricted Working Space, Add	21.95	
23 31 13 13-0578	LF	16" x 36", 20 Gauge Galvanized Steel Duct	103.41	45.67
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.83	
23 31 13 13-0579	LF	16" x 38", 20 Gauge Galvanized Steel Duct	107.40	47.42
		For Flat Oval, Add	4.25	
		For Work In Restricted Working Space, Add	23.71	
23 31 13 13-0580	LF	16" x 40", 20 Gauge Galvanized Steel Duct	111.36	49.18
		For Flat Oval, Add	4.41	
		For Work In Restricted Working Space, Add	24.59	
23 31 13 13-0581	LF	16" x 42", 20 Gauge Galvanized Steel Duct	115.34	50.93
		For Flat Oval, Add	4.57	
		For Work In Restricted Working Space, Add	25.47	
23 31 13 13-0582	LF	16" x 44", 20 Gauge Galvanized Steel Duct	119.33	52.69
		For Flat Oval, Add	4.73	
		For Work In Restricted Working Space, Add	26.35	
23 31 13 13-0583	LF	18" x 18", 20 Gauge Galvanized Steel Duct	71.59	31.61
		For Flat Oval, Add	2.84	
		For Work In Restricted Working Space, Add	15.81	
23 31 13 13-0584	LF	18" x 20", 20 Gauge Galvanized Steel Duct	75.58	33.38
		For Flat Oval, Add	2.99	
		For Work In Restricted Working Space, Add	16.69	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0585 LF 18" x 22", 20 Gauge Galvanized Steel Duct	79.54	35.13
For Flat Oval, Add	3.15	
For Work In Restricted Working Space, Add	17.57	
23 31 13 13-0586 LF 18" x 24", 20 Gauge Galvanized Steel Duct	83.53	36.89
For Flat Oval, Add	3.31	
For Work In Restricted Working Space, Add	18.44	
23 31 13 13-0587 LF 18" x 26", 20 Gauge Galvanized Steel Duct	87.52	38.64
For Flat Oval, Add	3.47	
For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0588 LF 18" x 28", 20 Gauge Galvanized Steel Duct	91.48	40.40
For Flat Oval, Add	3.62	
For Work In Restricted Working Space, Add	20.20	
23 31 13 13-0589 LF 18" x 30", 20 Gauge Galvanized Steel Duct	95.46	42.16
For Flat Oval, Add	3.78	
For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0590 LF 18" x 32", 20 Gauge Galvanized Steel Duct	99.42	43.91
For Flat Oval, Add	3.94	
For Work In Restricted Working Space, Add	21.95	
23 31 13 13-0591 LF 18" x 34", 20 Gauge Galvanized Steel Duct	103.41	45.67
For Flat Oval, Add	4.10	
For Work In Restricted Working Space, Add	22.83	
23 31 13 13-0592 LF 18" x 36", 20 Gauge Galvanized Steel Duct	107.40	47.42
For Flat Oval, Add	4.25	
For Work In Restricted Working Space, Add	23.71	
23 31 13 13-0593 LF 18" x 38", 20 Gauge Galvanized Steel Duct	111.36	49.18
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.59	
23 31 13 13-0594 LF 18" x 40", 20 Gauge Galvanized Steel Duct	115.34	50.93
For Flat Oval, Add	4.57	
For Work In Restricted Working Space, Add	25.47	
23 31 13 13-0595 LF 18" x 42", 20 Gauge Galvanized Steel Duct	119.33	52.69
For Flat Oval, Add	4.73	
For Work In Restricted Working Space, Add	26.35	
23 31 13 13-0596 LF 18" x 44", 20 Gauge Galvanized Steel Duct	123.30	54.45
For Flat Oval, Add	4.88	
For Work In Restricted Working Space, Add	27.23	
23 31 13 13-0597 LF 18" x 46", 20 Gauge Galvanized Steel Duct	127.29	56.21
For Flat Oval, Add	5.04	
For Work In Restricted Working Space, Add	28.10	
23 31 13 13-0598 LF 20" x 20", 20 Gauge Galvanized Steel Duct	79.54	35.13
For Flat Oval, Add	3.15	
For Work In Restricted Working Space, Add	17.57	
23 31 13 13-0599 LF 20" x 22", 20 Gauge Galvanized Steel Duct	83.53	36.89
For Flat Oval, Add	3.31	
For Work In Restricted Working Space, Add	18.44	
23 31 13 13-0600 LF 20" x 24", 20 Gauge Galvanized Steel Duct	87.52	38.64
For Flat Oval, Add	3.47	
For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0601 LF 20" x 26", 20 Gauge Galvanized Steel Duct	91.48	40.40
For Flat Oval, Add	3.62	
For Work In Restricted Working Space, Add	20.20	
23 31 13 13-0602 LF 20" x 28", 20 Gauge Galvanized Steel Duct	95.46	42.16
For Flat Oval, Add	3.78	
For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0603 LF 20" x 30", 20 Gauge Galvanized Steel Duct	99.42	43.91
For Flat Oval, Add	3.94	
For Work In Restricted Working Space, Add	21.95	
23 31 13 13-0604 LF 20" x 32", 20 Gauge Galvanized Steel Duct	103.41	45.67
For Flat Oval, Add	4.10	
For Work In Restricted Working Space, Add	22.83	
23 31 13 13-0605 LF 20" x 34", 20 Gauge Galvanized Steel Duct	107.40	47.42
For Flat Oval, Add	4.25	
For Work In Restricted Working Space, Add	23.71	
23 31 13 13-0606 LF 20" x 36", 20 Gauge Galvanized Steel Duct	111.36	49.18
For Flat Oval, Add	4.41	
For Work In Restricted Working Space, Add	24.59	
23 31 13 13-0607 LF 20" x 38", 20 Gauge Galvanized Steel Duct	115.34	50.93
For Flat Oval, Add	4.57	
For Work In Restricted Working Space, Add	25.47	
23 31 13 13-0608 LF 20" x 40", 20 Gauge Galvanized Steel Duct	119.33	52.69
For Flat Oval, Add	4.73	
For Work In Restricted Working Space, Add	26.35	
23 31 13 13-0609 LF 20" x 42", 20 Gauge Galvanized Steel Duct	123.30	54.45
For Flat Oval, Add	4.88	
For Work In Restricted Working Space, Add	27.23	
23 31 13 13-0610 LF 20" x 44", 20 Gauge Galvanized Steel Duct	127.29	56.21
For Flat Oval, Add	5.04	
For Work In Restricted Working Space, Add	28.10	
23 31 13 13-0611 LF 20" x 46", 20 Gauge Galvanized Steel Duct	131.24	57.97
For Flat Oval, Add	5.20	
For Work In Restricted Working Space, Add	28.98	
23 31 13 13-0612 LF 20" x 48", 20 Gauge Galvanized Steel Duct	135.23	59.72
For Flat Oval, Add	5.36	
For Work In Restricted Working Space, Add	29.86	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0613	LF	22" x 22", 20 Gauge Galvanized Steel Duct	87.52	38.64
		For Flat Oval, Add	3.47	
		For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0614	LF	22" x 24", 20 Gauge Galvanized Steel Duct	91.48	40.40
		For Flat Oval, Add	3.62	
		For Work In Restricted Working Space, Add	20.20	
23 31 13 13-0615	LF	22" x 26", 20 Gauge Galvanized Steel Duct	95.46	42.16
		For Flat Oval, Add	3.78	
		For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0616	LF	22" x 28", 20 Gauge Galvanized Steel Duct	99.42	43.91
		For Flat Oval, Add	3.94	
		For Work In Restricted Working Space, Add	21.95	
23 31 13 13-0617	LF	22" x 30", 20 Gauge Galvanized Steel Duct	103.41	45.67
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.83	
23 31 13 13-0618	LF	22" x 32", 20 Gauge Galvanized Steel Duct	107.40	47.42
		For Flat Oval, Add	4.25	
		For Work In Restricted Working Space, Add	23.71	
23 31 13 13-0619	LF	22" x 34", 20 Gauge Galvanized Steel Duct	111.36	49.18
		For Flat Oval, Add	4.41	
		For Work In Restricted Working Space, Add	24.59	
23 31 13 13-0620	LF	22" x 36", 20 Gauge Galvanized Steel Duct	115.34	50.93
		For Flat Oval, Add	4.57	
		For Work In Restricted Working Space, Add	25.47	
23 31 13 13-0621	LF	22" x 38", 20 Gauge Galvanized Steel Duct	119.33	52.69
		For Flat Oval, Add	4.73	
		For Work In Restricted Working Space, Add	26.35	
23 31 13 13-0622	LF	22" x 40", 20 Gauge Galvanized Steel Duct	123.30	54.45
		For Flat Oval, Add	4.88	
		For Work In Restricted Working Space, Add	27.23	
23 31 13 13-0623	LF	22" x 42", 20 Gauge Galvanized Steel Duct	127.29	56.21
		For Flat Oval, Add	5.04	
		For Work In Restricted Working Space, Add	28.10	
23 31 13 13-0624	LF	22" x 44", 20 Gauge Galvanized Steel Duct	131.24	57.97
		For Flat Oval, Add	5.20	
		For Work In Restricted Working Space, Add	28.98	
23 31 13 13-0625	LF	22" x 46", 20 Gauge Galvanized Steel Duct	135.23	59.72
		For Flat Oval, Add	5.36	
		For Work In Restricted Working Space, Add	29.86	
23 31 13 13-0626	LF	22" x 48", 20 Gauge Galvanized Steel Duct	139.22	61.48
		For Flat Oval, Add	5.51	
		For Work In Restricted Working Space, Add	30.74	
23 31 13 13-0627	LF	24" x 24", 20 Gauge Galvanized Steel Duct	95.46	42.16
		For Flat Oval, Add	3.78	
		For Work In Restricted Working Space, Add	21.08	
23 31 13 13-0628	LF	24" x 26", 20 Gauge Galvanized Steel Duct	99.42	43.91
		For Flat Oval, Add	3.94	
		For Work In Restricted Working Space, Add	21.95	
23 31 13 13-0629	LF	24" x 28", 20 Gauge Galvanized Steel Duct	103.41	45.67
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.83	
23 31 13 13-0630	LF	24" x 30", 20 Gauge Galvanized Steel Duct	107.40	47.42
		For Flat Oval, Add	4.25	
		For Work In Restricted Working Space, Add	23.71	
23 31 13 13-0631	LF	24" x 32", 20 Gauge Galvanized Steel Duct	111.36	49.18
		For Flat Oval, Add	4.41	
		For Work In Restricted Working Space, Add	24.59	
23 31 13 13-0632	LF	24" x 34", 20 Gauge Galvanized Steel Duct	115.34	50.93
		For Flat Oval, Add	4.57	
		For Work In Restricted Working Space, Add	25.47	
23 31 13 13-0633	LF	24" x 36", 20 Gauge Galvanized Steel Duct	119.33	52.69
		For Flat Oval, Add	4.73	
		For Work In Restricted Working Space, Add	26.35	
23 31 13 13-0634	LF	24" x 38", 20 Gauge Galvanized Steel Duct	123.30	54.45
		For Flat Oval, Add	4.88	
		For Work In Restricted Working Space, Add	27.23	
23 31 13 13-0635	LF	24" x 40", 20 Gauge Galvanized Steel Duct	127.29	56.21
		For Flat Oval, Add	5.04	
		For Work In Restricted Working Space, Add	28.10	
23 31 13 13-0636	LF	24" x 42", 20 Gauge Galvanized Steel Duct	131.24	57.97
		For Flat Oval, Add	5.20	
		For Work In Restricted Working Space, Add	28.98	
23 31 13 13-0637	LF	24" x 44", 20 Gauge Galvanized Steel Duct	135.23	59.72
		For Flat Oval, Add	5.36	
		For Work In Restricted Working Space, Add	29.86	
23 31 13 13-0638	LF	24" x 46", 20 Gauge Galvanized Steel Duct	139.22	61.48
		For Flat Oval, Add	5.51	
		For Work In Restricted Working Space, Add	30.74	
23 31 13 13-0639	LF	24" x 48", 20 Gauge Galvanized Steel Duct	143.19	63.23
		For Flat Oval, Add	5.67	
		For Work In Restricted Working Space, Add	31.62	
23 31 13 13-0640	LF	26" x 26", 20 Gauge Galvanized Steel Duct	103.41	45.67
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.83	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts And Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0641	LF	26" x 28", 20 Gauge Galvanized Steel Duct	107.40	47.42
			For Flat Oval, Add	4.25	
			For Work In Restricted Working Space, Add	23.71	
23 31 13	13-0642	LF	26" x 30", 20 Gauge Galvanized Steel Duct	111.36	49.18
			For Flat Oval, Add	4.41	
			For Work In Restricted Working Space, Add	24.59	
23 31 13	13-0643	LF	26" x 32", 20 Gauge Galvanized Steel Duct	115.34	50.93
			For Flat Oval, Add	4.57	
			For Work In Restricted Working Space, Add	25.47	
23 31 13	13-0644	LF	26" x 34", 20 Gauge Galvanized Steel Duct	119.33	52.69
			For Flat Oval, Add	4.73	
			For Work In Restricted Working Space, Add	26.35	
23 31 13	13-0645	LF	26" x 36", 20 Gauge Galvanized Steel Duct	123.30	54.45
			For Flat Oval, Add	4.88	
			For Work In Restricted Working Space, Add	27.23	
23 31 13	13-0646	LF	26" x 38", 20 Gauge Galvanized Steel Duct	127.29	56.21
			For Flat Oval, Add	5.04	
			For Work In Restricted Working Space, Add	28.10	
23 31 13	13-0647	LF	26" x 40", 20 Gauge Galvanized Steel Duct	131.24	57.97
			For Flat Oval, Add	5.20	
			For Work In Restricted Working Space, Add	28.98	
23 31 13	13-0648	LF	26" x 42", 20 Gauge Galvanized Steel Duct	135.23	59.72
			For Flat Oval, Add	5.36	
			For Work In Restricted Working Space, Add	29.86	
23 31 13	13-0649	LF	26" x 44", 20 Gauge Galvanized Steel Duct	139.22	61.48
			For Flat Oval, Add	5.51	
			For Work In Restricted Working Space, Add	30.74	
23 31 13	13-0650	LF	26" x 46", 20 Gauge Galvanized Steel Duct	143.19	63.23
			For Flat Oval, Add	5.67	
			For Work In Restricted Working Space, Add	31.62	
23 31 13	13-0651	LF	26" x 48", 20 Gauge Galvanized Steel Duct	147.18	64.99
			For Flat Oval, Add	5.83	
			For Work In Restricted Working Space, Add	32.50	
23 31 13	13-0652	LF	28" x 28", 20 Gauge Galvanized Steel Duct	111.36	49.18
			For Flat Oval, Add	4.41	
			For Work In Restricted Working Space, Add	24.59	
23 31 13	13-0653	LF	28" x 30", 20 Gauge Galvanized Steel Duct	115.34	50.93
			For Flat Oval, Add	4.57	
			For Work In Restricted Working Space, Add	25.47	
23 31 13	13-0654	LF	28" x 32", 20 Gauge Galvanized Steel Duct	119.33	52.69
			For Flat Oval, Add	4.73	
			For Work In Restricted Working Space, Add	26.35	
23 31 13	13-0655	LF	28" x 34", 20 Gauge Galvanized Steel Duct	123.30	54.45
			For Flat Oval, Add	4.88	
			For Work In Restricted Working Space, Add	27.23	
23 31 13	13-0656	LF	28" x 36", 20 Gauge Galvanized Steel Duct	127.29	56.21
			For Flat Oval, Add	5.04	
			For Work In Restricted Working Space, Add	28.10	
23 31 13	13-0657	LF	28" x 38", 20 Gauge Galvanized Steel Duct	131.24	57.97
			For Flat Oval, Add	5.20	
			For Work In Restricted Working Space, Add	28.98	
23 31 13	13-0658	LF	28" x 40", 20 Gauge Galvanized Steel Duct	135.23	59.72
			For Flat Oval, Add	5.36	
			For Work In Restricted Working Space, Add	29.86	
23 31 13	13-0659	LF	28" x 42", 20 Gauge Galvanized Steel Duct	139.22	61.48
			For Flat Oval, Add	5.51	
			For Work In Restricted Working Space, Add	30.74	
23 31 13	13-0660	LF	28" x 44", 20 Gauge Galvanized Steel Duct	143.19	63.23
			For Flat Oval, Add	5.67	
			For Work In Restricted Working Space, Add	31.62	
23 31 13	13-0661	LF	28" x 46", 20 Gauge Galvanized Steel Duct	147.18	64.99
			For Flat Oval, Add	5.83	
			For Work In Restricted Working Space, Add	32.50	
23 31 13	13-0662	LF	28" x 48", 20 Gauge Galvanized Steel Duct	151.13	66.74
			For Flat Oval, Add	5.98	
			For Work In Restricted Working Space, Add	33.37	
23 31 13	13-0663	LF	30" x 30", 20 Gauge Galvanized Steel Duct	119.33	52.69
			For Flat Oval, Add	4.73	
			For Work In Restricted Working Space, Add	26.35	
23 31 13	13-0664	LF	30" x 32", 20 Gauge Galvanized Steel Duct	123.30	54.45
			For Flat Oval, Add	4.88	
			For Work In Restricted Working Space, Add	27.23	
23 31 13	13-0665	LF	30" x 34", 20 Gauge Galvanized Steel Duct	127.29	56.21
			For Flat Oval, Add	5.04	
			For Work In Restricted Working Space, Add	28.10	
23 31 13	13-0666	LF	30" x 36", 20 Gauge Galvanized Steel Duct	131.24	57.97
			For Flat Oval, Add	5.20	
			For Work In Restricted Working Space, Add	28.98	
23 31 13	13-0667	LF	30" x 38", 20 Gauge Galvanized Steel Duct	135.23	59.72
			For Flat Oval, Add	5.36	
			For Work In Restricted Working Space, Add	29.86	
23 31 13	13-0668	LF	30" x 40", 20 Gauge Galvanized Steel Duct	139.22	61.48
			For Flat Oval, Add	5.51	
			For Work In Restricted Working Space, Add	30.74	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0669 LF 30" x 42", 20 Gauge Galvanized Steel Duct	143.19	63.23
For Flat Oval, Add	5.67	
For Work In Restricted Working Space, Add	31.62	
23 31 13 13-0670 LF 30" x 44", 20 Gauge Galvanized Steel Duct	147.18	64.99
For Flat Oval, Add	5.83	
For Work In Restricted Working Space, Add	32.50	
23 31 13 13-0671 LF 30" x 46", 20 Gauge Galvanized Steel Duct	151.13	66.74
For Flat Oval, Add	5.98	
For Work In Restricted Working Space, Add	33.37	
23 31 13 13-0672 LF 30" x 48", 20 Gauge Galvanized Steel Duct	155.12	68.50
For Flat Oval, Add	6.14	
For Work In Restricted Working Space, Add	34.25	
23 31 13 13-0673 LF 32" x 32", 20 Gauge Galvanized Steel Duct	127.29	56.21
For Flat Oval, Add	5.04	
For Work In Restricted Working Space, Add	28.10	
23 31 13 13-0674 LF 32" x 34", 20 Gauge Galvanized Steel Duct	131.24	57.97
For Flat Oval, Add	5.20	
For Work In Restricted Working Space, Add	28.98	
23 31 13 13-0675 LF 32" x 36", 20 Gauge Galvanized Steel Duct	135.23	59.72
For Flat Oval, Add	5.36	
For Work In Restricted Working Space, Add	29.86	
23 31 13 13-0676 LF 32" x 38", 20 Gauge Galvanized Steel Duct	139.22	61.48
For Flat Oval, Add	5.51	
For Work In Restricted Working Space, Add	30.74	
23 31 13 13-0677 LF 32" x 40", 20 Gauge Galvanized Steel Duct	143.19	63.23
For Flat Oval, Add	5.67	
For Work In Restricted Working Space, Add	31.62	
23 31 13 13-0678 LF 32" x 42", 20 Gauge Galvanized Steel Duct	147.18	64.99
For Flat Oval, Add	5.83	
For Work In Restricted Working Space, Add	32.50	
23 31 13 13-0679 LF 32" x 44", 20 Gauge Galvanized Steel Duct	151.13	66.74
For Flat Oval, Add	5.98	
For Work In Restricted Working Space, Add	33.37	
23 31 13 13-0680 LF 32" x 46", 20 Gauge Galvanized Steel Duct	155.12	68.50
For Flat Oval, Add	6.14	
For Work In Restricted Working Space, Add	34.25	
23 31 13 13-0681 LF 32" x 48", 20 Gauge Galvanized Steel Duct	159.11	70.26
For Flat Oval, Add	6.30	
For Work In Restricted Working Space, Add	35.13	
23 31 13 13-0682 LF 34" x 34", 20 Gauge Galvanized Steel Duct	135.23	59.72
For Flat Oval, Add	5.36	
For Work In Restricted Working Space, Add	29.86	
23 31 13 13-0683 LF 34" x 36", 20 Gauge Galvanized Steel Duct	139.22	61.48
For Flat Oval, Add	5.51	
For Work In Restricted Working Space, Add	30.74	
23 31 13 13-0684 LF 34" x 38", 20 Gauge Galvanized Steel Duct	143.19	63.23
For Flat Oval, Add	5.67	
For Work In Restricted Working Space, Add	31.62	
23 31 13 13-0685 LF 34" x 40", 20 Gauge Galvanized Steel Duct	147.18	64.99
For Flat Oval, Add	5.83	
For Work In Restricted Working Space, Add	32.50	
23 31 13 13-0686 LF 34" x 42", 20 Gauge Galvanized Steel Duct	151.13	66.74
For Flat Oval, Add	5.98	
For Work In Restricted Working Space, Add	33.37	
23 31 13 13-0687 LF 34" x 44", 20 Gauge Galvanized Steel Duct	155.12	68.50
For Flat Oval, Add	6.14	
For Work In Restricted Working Space, Add	34.25	
23 31 13 13-0688 LF 34" x 46", 20 Gauge Galvanized Steel Duct	159.11	70.26
For Flat Oval, Add	6.30	
For Work In Restricted Working Space, Add	35.13	
23 31 13 13-0689 LF 34" x 48", 20 Gauge Galvanized Steel Duct	163.07	72.01
For Flat Oval, Add	6.46	
For Work In Restricted Working Space, Add	36.01	
23 31 13 13-0690 LF 36" x 36", 20 Gauge Galvanized Steel Duct	143.19	63.23
For Flat Oval, Add	5.67	
For Work In Restricted Working Space, Add	31.62	
23 31 13 13-0691 LF 36" x 38", 20 Gauge Galvanized Steel Duct	147.18	64.99
For Flat Oval, Add	5.83	
For Work In Restricted Working Space, Add	32.50	
23 31 13 13-0692 LF 36" x 40", 20 Gauge Galvanized Steel Duct	151.13	66.74
For Flat Oval, Add	5.98	
For Work In Restricted Working Space, Add	33.37	
23 31 13 13-0693 LF 36" x 42", 20 Gauge Galvanized Steel Duct	155.12	68.50
For Flat Oval, Add	6.14	
For Work In Restricted Working Space, Add	34.25	
23 31 13 13-0694 LF 36" x 44", 20 Gauge Galvanized Steel Duct	159.11	70.26
For Flat Oval, Add	6.30	
For Work In Restricted Working Space, Add	35.13	
23 31 13 13-0695 LF 36" x 46", 20 Gauge Galvanized Steel Duct	163.07	72.01
For Flat Oval, Add	6.46	
For Work In Restricted Working Space, Add	36.01	
23 31 13 13-0696 LF 36" x 48", 20 Gauge Galvanized Steel Duct	167.05	73.77
For Flat Oval, Add	6.62	
For Work In Restricted Working Space, Add	36.89	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts And Casings			23 31

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0697	LF	38" x 38", 20 Gauge Galvanized Steel Duct	151.13	66.74
			For Flat Oval, Add	5.98	
			For Work In Restricted Working Space, Add	33.37	
23 31 13	13-0698	LF	38" x 40", 20 Gauge Galvanized Steel Duct	155.12	68.50
			For Flat Oval, Add	6.14	
			For Work In Restricted Working Space, Add	34.25	
23 31 13	13-0699	LF	38" x 42", 20 Gauge Galvanized Steel Duct	159.11	70.26
			For Flat Oval, Add	6.30	
			For Work In Restricted Working Space, Add	35.13	
23 31 13	13-0700	LF	38" x 44", 20 Gauge Galvanized Steel Duct	163.07	72.01
			For Flat Oval, Add	6.46	
			For Work In Restricted Working Space, Add	36.01	
23 31 13	13-0701	LF	38" x 46", 20 Gauge Galvanized Steel Duct	167.05	73.77
			For Flat Oval, Add	6.62	
			For Work In Restricted Working Space, Add	36.89	
23 31 13	13-0702	LF	38" x 48", 20 Gauge Galvanized Steel Duct	171.03	75.52
			For Flat Oval, Add	6.77	
			For Work In Restricted Working Space, Add	37.76	
23 31 13	13-0703	LF	38" x 50", 20 Gauge Galvanized Steel Duct	175.00	77.29
			For Flat Oval, Add	6.93	
			For Work In Restricted Working Space, Add	38.64	
23 31 13	13-0704	LF	40" x 40", 20 Gauge Galvanized Steel Duct	159.11	70.26
			For Flat Oval, Add	6.30	
			For Work In Restricted Working Space, Add	35.13	
23 31 13	13-0705	LF	40" x 42", 20 Gauge Galvanized Steel Duct	163.07	72.01
			For Flat Oval, Add	6.46	
			For Work In Restricted Working Space, Add	36.01	
23 31 13	13-0706	LF	40" x 44", 20 Gauge Galvanized Steel Duct	167.05	73.77
			For Flat Oval, Add	6.62	
			For Work In Restricted Working Space, Add	36.89	
23 31 13	13-0707	LF	40" x 46", 20 Gauge Galvanized Steel Duct	171.03	75.52
			For Flat Oval, Add	6.77	
			For Work In Restricted Working Space, Add	37.76	
23 31 13	13-0708	LF	40" x 48", 20 Gauge Galvanized Steel Duct	175.00	77.29
			For Flat Oval, Add	6.93	
			For Work In Restricted Working Space, Add	38.64	
23 31 13	13-0709	LF	40" x 50", 20 Gauge Galvanized Steel Duct	178.99	79.04
			For Flat Oval, Add	7.09	
			For Work In Restricted Working Space, Add	39.52	
23 31 13	13-0710	LF	40" x 52", 20 Gauge Galvanized Steel Duct	182.95	80.80
			For Flat Oval, Add	7.24	
			For Work In Restricted Working Space, Add	40.40	
23 31 13	13-0711	LF	40" x 54", 20 Gauge Galvanized Steel Duct	186.94	82.55
			For Flat Oval, Add	7.40	
			For Work In Restricted Working Space, Add	41.28	
23 31 13	13-0712	LF	40" x 56", 20 Gauge Galvanized Steel Duct	190.92	84.31
			For Flat Oval, Add	7.56	
			For Work In Restricted Working Space, Add	42.15	
23 31 13	13-0713	LF	42" x 42", 20 Gauge Galvanized Steel Duct	167.05	73.77
			For Flat Oval, Add	6.62	
			For Work In Restricted Working Space, Add	36.89	
23 31 13	13-0714	LF	42" x 44", 20 Gauge Galvanized Steel Duct	171.03	75.52
			For Flat Oval, Add	6.77	
			For Work In Restricted Working Space, Add	37.76	
23 31 13	13-0715	LF	42" x 46", 20 Gauge Galvanized Steel Duct	175.00	77.29
			For Flat Oval, Add	6.93	
			For Work In Restricted Working Space, Add	38.64	
23 31 13	13-0716	LF	42" x 48", 20 Gauge Galvanized Steel Duct	178.99	79.04
			For Flat Oval, Add	7.09	
			For Work In Restricted Working Space, Add	39.52	
23 31 13	13-0717	LF	42" x 50", 20 Gauge Galvanized Steel Duct	182.95	80.80
			For Flat Oval, Add	7.24	
			For Work In Restricted Working Space, Add	40.40	
23 31 13	13-0718	LF	42" x 52", 20 Gauge Galvanized Steel Duct	186.94	82.55
			For Flat Oval, Add	7.40	
			For Work In Restricted Working Space, Add	41.28	
23 31 13	13-0719	LF	42" x 54", 20 Gauge Galvanized Steel Duct	190.92	84.31
			For Flat Oval, Add	7.56	
			For Work In Restricted Working Space, Add	42.15	
23 31 13	13-0720	LF	42" x 56", 20 Gauge Galvanized Steel Duct	194.89	86.07
			For Flat Oval, Add	7.72	
			For Work In Restricted Working Space, Add	43.03	
23 31 13	13-0721	LF	44" x 44", 20 Gauge Galvanized Steel Duct	175.00	77.29
			For Flat Oval, Add	6.93	
			For Work In Restricted Working Space, Add	38.64	
23 31 13	13-0722	LF	44" x 46", 20 Gauge Galvanized Steel Duct	178.99	79.04
			For Flat Oval, Add	7.09	
			For Work In Restricted Working Space, Add	39.52	
23 31 13	13-0723	LF	44" x 48", 20 Gauge Galvanized Steel Duct	182.95	80.80
			For Flat Oval, Add	7.24	
			For Work In Restricted Working Space, Add	40.40	
23 31 13	13-0724	LF	44" x 50", 20 Gauge Galvanized Steel Duct	186.94	82.55
			For Flat Oval, Add	7.40	
			For Work In Restricted Working Space, Add	41.28	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0725	LF	44" x 52", 20 Gauge Galvanized Steel Duct	190.92	84.31
		For Flat Oval, Add	7.56	
		For Work In Restricted Working Space, Add	42.15	
23 31 13 13-0726	LF	44" x 54", 20 Gauge Galvanized Steel Duct	194.89	86.07
		For Flat Oval, Add	7.72	
		For Work In Restricted Working Space, Add	43.03	
23 31 13 13-0727	LF	44" x 56", 20 Gauge Galvanized Steel Duct	198.88	87.82
		For Flat Oval, Add	7.88	
		For Work In Restricted Working Space, Add	43.91	
23 31 13 13-0728	LF	46" x 46", 20 Gauge Galvanized Steel Duct	182.95	80.80
		For Flat Oval, Add	7.24	
		For Work In Restricted Working Space, Add	40.40	
23 31 13 13-0729	LF	46" x 48", 20 Gauge Galvanized Steel Duct	186.94	82.55
		For Flat Oval, Add	7.40	
		For Work In Restricted Working Space, Add	41.28	
23 31 13 13-0730	LF	46" x 50", 20 Gauge Galvanized Steel Duct	190.92	84.31
		For Flat Oval, Add	7.56	
		For Work In Restricted Working Space, Add	42.15	
23 31 13 13-0731	LF	46" x 52", 20 Gauge Galvanized Steel Duct	194.89	86.07
		For Flat Oval, Add	7.72	
		For Work In Restricted Working Space, Add	43.03	
23 31 13 13-0732	LF	46" x 54", 20 Gauge Galvanized Steel Duct	198.88	87.82
		For Flat Oval, Add	7.88	
		For Work In Restricted Working Space, Add	43.91	
23 31 13 13-0733	LF	46" x 56", 20 Gauge Galvanized Steel Duct	202.86	89.58
		For Flat Oval, Add	8.03	
		For Work In Restricted Working Space, Add	44.79	
23 31 13 13-0734	LF	46" x 58", 20 Gauge Galvanized Steel Duct	206.83	91.33
		For Flat Oval, Add	8.19	
		For Work In Restricted Working Space, Add	45.67	
23 31 13 13-0735	LF	48" x 48", 20 Gauge Galvanized Steel Duct	190.92	84.31
		For Flat Oval, Add	7.56	
		For Work In Restricted Working Space, Add	42.15	
23 31 13 13-0736	LF	48" x 50", 20 Gauge Galvanized Steel Duct	194.89	86.07
		For Flat Oval, Add	7.72	
		For Work In Restricted Working Space, Add	43.03	
23 31 13 13-0737	LF	48" x 52", 20 Gauge Galvanized Steel Duct	198.88	87.82
		For Flat Oval, Add	7.88	
		For Work In Restricted Working Space, Add	43.91	
23 31 13 13-0738	LF	48" x 54", 20 Gauge Galvanized Steel Duct	202.86	89.58
		For Flat Oval, Add	8.03	
		For Work In Restricted Working Space, Add	44.79	
23 31 13 13-0739	LF	48" x 56", 20 Gauge Galvanized Steel Duct	206.83	91.33
		For Flat Oval, Add	8.19	
		For Work In Restricted Working Space, Add	45.67	
23 31 13 13-0740	LF	48" x 58", 20 Gauge Galvanized Steel Duct	210.81	93.09
		For Flat Oval, Add	8.35	
		For Work In Restricted Working Space, Add	46.55	
23 31 13 13-0741	LF	48" x 60", 20 Gauge Galvanized Steel Duct	214.78	94.84
		For Flat Oval, Add	8.51	
		For Work In Restricted Working Space, Add	47.42	
23 31 13 13-0742	LF	50" x 50", 20 Gauge Galvanized Steel Duct	198.88	87.82
		For Flat Oval, Add	7.88	
		For Work In Restricted Working Space, Add	43.91	
23 31 13 13-0743	LF	50" x 52", 20 Gauge Galvanized Steel Duct	202.86	89.58
		For Flat Oval, Add	8.03	
		For Work In Restricted Working Space, Add	44.79	
23 31 13 13-0744	LF	50" x 54", 20 Gauge Galvanized Steel Duct	206.83	91.33
		For Flat Oval, Add	8.19	
		For Work In Restricted Working Space, Add	45.67	
23 31 13 13-0745	LF	50" x 56", 20 Gauge Galvanized Steel Duct	210.81	93.09
		For Flat Oval, Add	8.35	
		For Work In Restricted Working Space, Add	46.55	
23 31 13 13-0746	LF	50" x 58", 20 Gauge Galvanized Steel Duct	214.78	94.84
		For Flat Oval, Add	8.51	
		For Work In Restricted Working Space, Add	47.42	
23 31 13 13-0747	LF	50" x 60", 20 Gauge Galvanized Steel Duct	218.76	96.60
		For Flat Oval, Add	8.66	
		For Work In Restricted Working Space, Add	48.30	
23 31 13 13-0748	LF	52" x 52", 20 Gauge Galvanized Steel Duct	206.83	91.33
		For Flat Oval, Add	8.19	
		For Work In Restricted Working Space, Add	45.67	
23 31 13 13-0749	LF	52" x 54", 20 Gauge Galvanized Steel Duct	210.81	93.09
		For Flat Oval, Add	8.35	
		For Work In Restricted Working Space, Add	46.55	
23 31 13 13-0750	LF	52" x 56", 20 Gauge Galvanized Steel Duct	214.78	94.84
		For Flat Oval, Add	8.51	
		For Work In Restricted Working Space, Add	47.42	
23 31 13 13-0751	LF	52" x 58", 20 Gauge Galvanized Steel Duct	218.76	96.60
		For Flat Oval, Add	8.66	
		For Work In Restricted Working Space, Add	48.30	
23 31 13 13-0752	LF	52" x 60", 20 Gauge Galvanized Steel Duct	222.75	98.37
		For Flat Oval, Add	8.82	
		For Work In Restricted Working Space, Add	49.18	



Heating, Ventilating, And Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts And Casings			23 31	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 31 13 13-0753	LF	54" x 54", 20 Gauge Galvanized Steel Duct	214.78	94.84
		For Flat Oval, Add	8.51	
		For Work In Restricted Working Space, Add	47.42	
23 31 13 13-0754	LF	54" x 56", 20 Gauge Galvanized Steel Duct	218.76	96.60
		For Flat Oval, Add	8.66	
		For Work In Restricted Working Space, Add	48.30	
23 31 13 13-0755	LF	54" x 58", 20 Gauge Galvanized Steel Duct	222.75	98.37
		For Flat Oval, Add	8.82	
		For Work In Restricted Working Space, Add	49.18	
23 31 13 13-0756	LF	54" x 60", 20 Gauge Galvanized Steel Duct	226.71	100.12
		For Flat Oval, Add	8.98	
		For Work In Restricted Working Space, Add	50.06	
23 31 13 13-0757	LF	54" x 62", 20 Gauge Galvanized Steel Duct	230.69	101.88
		For Flat Oval, Add	9.14	
		For Work In Restricted Working Space, Add	50.93	
23 31 13 13-0758	LF	54" x 64", 20 Gauge Galvanized Steel Duct	234.65	103.63
		For Flat Oval, Add	9.29	
		For Work In Restricted Working Space, Add	51.81	
23 31 13 13-0759	LF	56" x 56", 20 Gauge Galvanized Steel Duct	222.75	98.37
		For Flat Oval, Add	8.82	
		For Work In Restricted Working Space, Add	49.18	
23 31 13 13-0760	LF	56" x 58", 20 Gauge Galvanized Steel Duct	226.71	100.12
		For Flat Oval, Add	8.98	
		For Work In Restricted Working Space, Add	50.06	
23 31 13 13-0761	LF	56" x 60", 20 Gauge Galvanized Steel Duct	230.69	101.88
		For Flat Oval, Add	9.14	
		For Work In Restricted Working Space, Add	50.93	
23 31 13 13-0762	LF	56" x 62", 20 Gauge Galvanized Steel Duct	234.65	103.63
		For Flat Oval, Add	9.29	
		For Work In Restricted Working Space, Add	51.81	
23 31 13 13-0763	LF	56" x 64", 20 Gauge Galvanized Steel Duct	238.64	105.39
		For Flat Oval, Add	9.45	
		For Work In Restricted Working Space, Add	52.69	
23 31 13 13-0764	LF	58" x 58", 20 Gauge Galvanized Steel Duct	230.69	101.88
		For Flat Oval, Add	9.14	
		For Work In Restricted Working Space, Add	50.93	
23 31 13 13-0765	LF	58" x 60", 20 Gauge Galvanized Steel Duct	234.65	103.63
		For Flat Oval, Add	9.29	
		For Work In Restricted Working Space, Add	51.81	
23 31 13 13-0766	LF	58" x 62", 20 Gauge Galvanized Steel Duct	238.64	105.39
		For Flat Oval, Add	9.45	
		For Work In Restricted Working Space, Add	52.69	
23 31 13 13-0767	LF	58" x 64", 20 Gauge Galvanized Steel Duct	242.63	107.14
		For Flat Oval, Add	9.61	
		For Work In Restricted Working Space, Add	53.57	
23 31 13 13-0768	LF	58" x 66", 20 Gauge Galvanized Steel Duct	246.60	108.90
		For Flat Oval, Add	9.77	
		For Work In Restricted Working Space, Add	54.45	
23 31 13 13-0769	LF	60" x 60", 20 Gauge Galvanized Steel Duct	238.64	105.39
		For Flat Oval, Add	9.45	
		For Work In Restricted Working Space, Add	52.69	
23 31 13 13-0770	LF	60" x 62", 20 Gauge Galvanized Steel Duct	242.63	107.14
		For Flat Oval, Add	9.61	
		For Work In Restricted Working Space, Add	53.57	
23 31 13 13-0771	LF	60" x 64", 20 Gauge Galvanized Steel Duct	246.60	108.90
		For Flat Oval, Add	9.77	
		For Work In Restricted Working Space, Add	54.45	
23 31 13 13-0772	LF	60" x 66", 20 Gauge Galvanized Steel Duct	250.58	110.65
		For Flat Oval, Add	9.92	
		For Work In Restricted Working Space, Add	55.33	
23 31 13 13-0773	LF	60" x 68", 20 Gauge Galvanized Steel Duct	254.56	112.41
		For Flat Oval, Add	10.08	
		For Work In Restricted Working Space, Add	56.21	
23 31 13 13-0774	LF	62" x 62", 20 Gauge Galvanized Steel Duct	246.60	108.90
		For Flat Oval, Add	9.77	
		For Work In Restricted Working Space, Add	54.45	
23 31 13 13-0775	LF	62" x 64", 20 Gauge Galvanized Steel Duct	250.58	110.65
		For Flat Oval, Add	9.92	
		For Work In Restricted Working Space, Add	55.33	
23 31 13 13-0776	LF	62" x 66", 20 Gauge Galvanized Steel Duct	254.56	112.41
		For Flat Oval, Add	10.08	
		For Work In Restricted Working Space, Add	56.21	
23 31 13 13-0777	LF	62" x 68", 20 Gauge Galvanized Steel Duct	258.53	114.17
		For Flat Oval, Add	10.24	
		For Work In Restricted Working Space, Add	57.08	
23 31 13 13-0778	LF	62" x 70", 20 Gauge Galvanized Steel Duct	262.52	115.92
		For Flat Oval, Add	10.40	
		For Work In Restricted Working Space, Add	57.96	
23 31 13 13-0779	LF	64" x 64", 20 Gauge Galvanized Steel Duct	254.56	112.41
		For Flat Oval, Add	10.08	
		For Work In Restricted Working Space, Add	56.21	
23 31 13 13-0780	LF	64" x 66", 20 Gauge Galvanized Steel Duct	258.53	114.17
		For Flat Oval, Add	10.24	
		For Work In Restricted Working Space, Add	57.08	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0781	LF	64" x 68", 20 Gauge Galvanized Steel Duct	262.52	115.92
		For Flat Oval, Add	10.40	
		For Work In Restricted Working Space, Add	57.96	
23 31 13 13-0782	LF	64" x 70", 20 Gauge Galvanized Steel Duct	266.49	117.68
		For Flat Oval, Add	10.55	
		For Work In Restricted Working Space, Add	58.84	
23 31 13 13-0783	LF	66" x 66", 20 Gauge Galvanized Steel Duct	262.52	115.92
		For Flat Oval, Add	10.40	
		For Work In Restricted Working Space, Add	57.96	
23 31 13 13-0784	LF	66" x 68", 20 Gauge Galvanized Steel Duct	266.49	117.68
		For Flat Oval, Add	10.55	
		For Work In Restricted Working Space, Add	58.84	
23 31 13 13-0785	LF	66" x 70", 20 Gauge Galvanized Steel Duct	270.46	119.44
		For Flat Oval, Add	10.71	
		For Work In Restricted Working Space, Add	59.72	
23 31 13 13-0786	LF	66" x 72", 20 Gauge Galvanized Steel Duct	274.45	121.20
		For Flat Oval, Add	10.87	
		For Work In Restricted Working Space, Add	60.60	
23 31 13 13-0787	LF	68" x 68", 20 Gauge Galvanized Steel Duct	270.46	119.44
		For Flat Oval, Add	10.71	
		For Work In Restricted Working Space, Add	59.72	
23 31 13 13-0788	LF	68" x 70", 20 Gauge Galvanized Steel Duct	274.45	121.20
		For Flat Oval, Add	10.87	
		For Work In Restricted Working Space, Add	60.60	
23 31 13 13-0789	LF	68" x 72", 20 Gauge Galvanized Steel Duct	278.42	122.95
		For Flat Oval, Add	11.03	
		For Work In Restricted Working Space, Add	61.48	
23 31 13 13-0790	LF	68" x 74", 20 Gauge Galvanized Steel Duct	282.41	124.71
		For Flat Oval, Add	11.18	
		For Work In Restricted Working Space, Add	62.36	
23 31 13 13-0791	LF	70" x 70", 20 Gauge Galvanized Steel Duct	278.42	122.95
		For Flat Oval, Add	11.03	
		For Work In Restricted Working Space, Add	61.48	
23 31 13 13-0792	LF	70" x 72", 20 Gauge Galvanized Steel Duct	282.41	124.71
		For Flat Oval, Add	11.18	
		For Work In Restricted Working Space, Add	62.36	
23 31 13 13-0793	LF	70" x 74", 20 Gauge Galvanized Steel Duct	286.39	126.47
		For Flat Oval, Add	11.34	
		For Work In Restricted Working Space, Add	63.23	
23 31 13 13-0794	LF	70" x 76", 20 Gauge Galvanized Steel Duct	290.35	128.22
		For Flat Oval, Add	11.50	
		For Work In Restricted Working Space, Add	64.11	
23 31 13 13-0795	LF	70" x 78", 20 Gauge Galvanized Steel Duct	294.33	129.98
		For Flat Oval, Add	11.66	
		For Work In Restricted Working Space, Add	64.99	
23 31 13 13-0796	LF	70" x 80", 20 Gauge Galvanized Steel Duct	298.30	131.73
		For Flat Oval, Add	11.81	
		For Work In Restricted Working Space, Add	65.87	
23 31 13 13-0797	LF	70" x 82", 20 Gauge Galvanized Steel Duct	302.29	133.49
		For Flat Oval, Add	11.97	
		For Work In Restricted Working Space, Add	66.74	
23 31 13 13-0798	LF	70" x 84", 20 Gauge Galvanized Steel Duct	306.27	135.24
		For Flat Oval, Add	12.13	
		For Work In Restricted Working Space, Add	67.62	
23 31 13 13-0799	LF	72" x 72", 20 Gauge Galvanized Steel Duct	286.39	126.47
		For Flat Oval, Add	11.34	
		For Work In Restricted Working Space, Add	63.23	
23 31 13 13-0800	LF	72" x 74", 20 Gauge Galvanized Steel Duct	290.35	128.22
		For Flat Oval, Add	11.50	
		For Work In Restricted Working Space, Add	64.11	
23 31 13 13-0801	LF	72" x 76", 20 Gauge Galvanized Steel Duct	294.33	129.98
		For Flat Oval, Add	11.66	
		For Work In Restricted Working Space, Add	64.99	
23 31 13 13-0802	LF	72" x 78", 20 Gauge Galvanized Steel Duct	298.30	131.73
		For Flat Oval, Add	11.81	
		For Work In Restricted Working Space, Add	65.87	
23 31 13 13-0803	LF	72" x 80", 20 Gauge Galvanized Steel Duct	302.29	133.49
		For Flat Oval, Add	11.97	
		For Work In Restricted Working Space, Add	66.74	
23 31 13 13-0804	LF	72" x 82", 20 Gauge Galvanized Steel Duct	306.27	135.24
		For Flat Oval, Add	12.13	
		For Work In Restricted Working Space, Add	67.62	
23 31 13 13-0805	LF	72" x 84", 20 Gauge Galvanized Steel Duct	310.24	137.00
		For Flat Oval, Add	12.29	
		For Work In Restricted Working Space, Add	68.50	
23 31 13 13-0806	LF	74" x 74", 20 Gauge Galvanized Steel Duct	294.33	129.98
		For Flat Oval, Add	11.66	
		For Work In Restricted Working Space, Add	64.99	
23 31 13 13-0807	LF	74" x 76", 20 Gauge Galvanized Steel Duct	298.30	131.73
		For Flat Oval, Add	11.81	
		For Work In Restricted Working Space, Add	65.87	
23 31 13 13-0808	LF	74" x 78", 20 Gauge Galvanized Steel Duct	302.29	133.49
		For Flat Oval, Add	11.97	
		For Work In Restricted Working Space, Add	66.74	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts And Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0809	LF	74" x 80", 20 Gauge Galvanized Steel Duct	.....	306.27	135.24
		For Flat Oval, Add		12.13	
		For Work In Restricted Working Space, Add		67.62	
23 31 13 13-0810	LF	74" x 82", 20 Gauge Galvanized Steel Duct	.....	310.24	137.00
		For Flat Oval, Add		12.29	
		For Work In Restricted Working Space, Add		68.50	
23 31 13 13-0811	LF	74" x 84", 20 Gauge Galvanized Steel Duct	.....	314.22	138.75
		For Flat Oval, Add		12.44	
		For Work In Restricted Working Space, Add		69.38	
23 31 13 13-0812	LF	76" x 76", 20 Gauge Galvanized Steel Duct	.....	302.29	133.49
		For Flat Oval, Add		11.97	
		For Work In Restricted Working Space, Add		66.74	
23 31 13 13-0813	LF	76" x 78", 20 Gauge Galvanized Steel Duct	.....	306.27	135.24
		For Flat Oval, Add		12.13	
		For Work In Restricted Working Space, Add		67.62	
23 31 13 13-0814	LF	76" x 80", 20 Gauge Galvanized Steel Duct	.....	310.24	137.00
		For Flat Oval, Add		12.29	
		For Work In Restricted Working Space, Add		68.50	
23 31 13 13-0815	LF	76" x 82", 20 Gauge Galvanized Steel Duct	.....	314.22	138.75
		For Flat Oval, Add		12.44	
		For Work In Restricted Working Space, Add		69.38	
23 31 13 13-0816	LF	76" x 84", 20 Gauge Galvanized Steel Duct	.....	318.19	140.51
		For Flat Oval, Add		12.60	
		For Work In Restricted Working Space, Add		70.26	
23 31 13 13-0817	LF	78" x 78", 20 Gauge Galvanized Steel Duct	.....	310.24	137.00
		For Flat Oval, Add		12.29	
		For Work In Restricted Working Space, Add		68.50	
23 31 13 13-0818	LF	78" x 80", 20 Gauge Galvanized Steel Duct	.....	314.22	138.75
		For Flat Oval, Add		12.44	
		For Work In Restricted Working Space, Add		69.38	
23 31 13 13-0819	LF	78" x 82", 20 Gauge Galvanized Steel Duct	.....	318.19	140.51
		For Flat Oval, Add		12.60	
		For Work In Restricted Working Space, Add		70.26	
23 31 13 13-0820	LF	78" x 84", 20 Gauge Galvanized Steel Duct	.....	322.17	142.28
		For Flat Oval, Add		12.76	
		For Work In Restricted Working Space, Add		71.14	
23 31 13 13-0821	LF	80" x 80", 20 Gauge Galvanized Steel Duct	.....	318.19	140.51
		For Flat Oval, Add		12.60	
		For Work In Restricted Working Space, Add		70.26	
23 31 13 13-0822	LF	80" x 82", 20 Gauge Galvanized Steel Duct	.....	322.17	142.28
		For Flat Oval, Add		12.76	
		For Work In Restricted Working Space, Add		71.14	
23 31 13 13-0823	LF	80" x 84", 20 Gauge Galvanized Steel Duct	.....	326.16	144.03
		For Flat Oval, Add		12.92	
		For Work In Restricted Working Space, Add		72.02	
23 31 13 13-0824	LF	82" x 82", 20 Gauge Galvanized Steel Duct	.....	326.16	144.03
		For Flat Oval, Add		12.92	
		For Work In Restricted Working Space, Add		72.02	
23 31 13 13-0825	LF	82" x 84", 20 Gauge Galvanized Steel Duct	.....	330.13	145.79
		For Flat Oval, Add		13.07	
		For Work In Restricted Working Space, Add		72.89	
23 31 13 13-0826	LF	84" x 84", 20 Gauge Galvanized Steel Duct	.....	334.11	147.54
		For Flat Oval, Add		13.23	
		For Work In Restricted Working Space, Add		73.77	
23 31 13 13-0827		18 Gauge Galvanized Steel Duct	(23 31 13 13-0009)		
23 31 13 13-0828	LF	4" x 4", 18 Gauge Galvanized Steel Duct	.....	20.71	9.15
		For Flat Oval, Add		0.82	
		For Work In Restricted Working Space, Add		4.57	
23 31 13 13-0829	LF	4" x 6", 18 Gauge Galvanized Steel Duct	.....	25.90	11.43
		For Flat Oval, Add		1.03	
		For Work In Restricted Working Space, Add		5.72	
23 31 13 13-0830	LF	4" x 8", 18 Gauge Galvanized Steel Duct	.....	31.07	13.72
		For Flat Oval, Add		1.23	
		For Work In Restricted Working Space, Add		6.86	
23 31 13 13-0831	LF	4" x 10", 18 Gauge Galvanized Steel Duct	.....	36.23	16.01
		For Flat Oval, Add		1.43	
		For Work In Restricted Working Space, Add		8.00	
23 31 13 13-0832	LF	4" x 12", 18 Gauge Galvanized Steel Duct	.....	41.43	18.29
		For Flat Oval, Add		1.64	
		For Work In Restricted Working Space, Add		9.15	
23 31 13 13-0833	LF	4" x 14", 18 Gauge Galvanized Steel Duct	.....	46.61	20.58
		For Flat Oval, Add		1.85	
		For Work In Restricted Working Space, Add		10.29	
23 31 13 13-0834	LF	4" x 16", 18 Gauge Galvanized Steel Duct	.....	51.78	22.87
		For Flat Oval, Add		2.05	
		For Work In Restricted Working Space, Add		11.43	
23 31 13 13-0835	LF	6" x 6", 18 Gauge Galvanized Steel Duct	.....	31.07	13.72
		For Flat Oval, Add		1.23	
		For Work In Restricted Working Space, Add		6.86	
23 31 13 13-0836	LF	6" x 8", 18 Gauge Galvanized Steel Duct	.....	36.23	16.01
		For Flat Oval, Add		1.43	
		For Work In Restricted Working Space, Add		8.00	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0837	LF	6" x 10", 18 Gauge Galvanized Steel Duct	41.43	18.29
		For Flat Oval, Add	1.64	
		For Work In Restricted Working Space, Add	9.15	
23 31 13 13-0838	LF	6" x 12", 18 Gauge Galvanized Steel Duct	46.61	20.58
		For Flat Oval, Add	1.85	
		For Work In Restricted Working Space, Add	10.29	
23 31 13 13-0839	LF	6" x 14", 18 Gauge Galvanized Steel Duct	51.78	22.87
		For Flat Oval, Add	2.05	
		For Work In Restricted Working Space, Add	11.43	
23 31 13 13-0840	LF	6" x 16", 18 Gauge Galvanized Steel Duct	56.96	25.15
		For Flat Oval, Add	2.25	
		For Work In Restricted Working Space, Add	12.58	
23 31 13 13-0841	LF	8" x 8", 18 Gauge Galvanized Steel Duct	41.43	18.29
		For Flat Oval, Add	1.64	
		For Work In Restricted Working Space, Add	9.15	
23 31 13 13-0842	LF	8" x 10", 18 Gauge Galvanized Steel Duct	46.61	20.58
		For Flat Oval, Add	1.85	
		For Work In Restricted Working Space, Add	10.29	
23 31 13 13-0843	LF	8" x 12", 18 Gauge Galvanized Steel Duct	51.78	22.87
		For Flat Oval, Add	2.05	
		For Work In Restricted Working Space, Add	11.43	
23 31 13 13-0844	LF	8" x 14", 18 Gauge Galvanized Steel Duct	56.96	25.15
		For Flat Oval, Add	2.25	
		For Work In Restricted Working Space, Add	12.58	
23 31 13 13-0845	LF	8" x 16", 18 Gauge Galvanized Steel Duct	62.13	27.44
		For Flat Oval, Add	2.46	
		For Work In Restricted Working Space, Add	13.72	
23 31 13 13-0846	LF	8" x 18", 18 Gauge Galvanized Steel Duct	67.32	29.72
		For Flat Oval, Add	2.67	
		For Work In Restricted Working Space, Add	14.86	
23 31 13 13-0847	LF	8" x 20", 18 Gauge Galvanized Steel Duct	72.50	32.02
		For Flat Oval, Add	2.87	
		For Work In Restricted Working Space, Add	16.01	
23 31 13 13-0848	LF	8" x 22", 18 Gauge Galvanized Steel Duct	77.68	34.30
		For Flat Oval, Add	3.08	
		For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0849	LF	8" x 24", 18 Gauge Galvanized Steel Duct	82.86	36.59
		For Flat Oval, Add	3.28	
		For Work In Restricted Working Space, Add	18.30	
23 31 13 13-0850	LF	10" x 10", 18 Gauge Galvanized Steel Duct	51.78	22.87
		For Flat Oval, Add	2.05	
		For Work In Restricted Working Space, Add	11.43	
23 31 13 13-0851	LF	10" x 12", 18 Gauge Galvanized Steel Duct	56.96	25.15
		For Flat Oval, Add	2.25	
		For Work In Restricted Working Space, Add	12.58	
23 31 13 13-0852	LF	10" x 14", 18 Gauge Galvanized Steel Duct	62.13	27.44
		For Flat Oval, Add	2.46	
		For Work In Restricted Working Space, Add	13.72	
23 31 13 13-0853	LF	10" x 16", 18 Gauge Galvanized Steel Duct	67.32	29.72
		For Flat Oval, Add	2.67	
		For Work In Restricted Working Space, Add	14.86	
23 31 13 13-0854	LF	10" x 18", 18 Gauge Galvanized Steel Duct	72.50	32.02
		For Flat Oval, Add	2.87	
		For Work In Restricted Working Space, Add	16.01	
23 31 13 13-0855	LF	10" x 20", 18 Gauge Galvanized Steel Duct	77.68	34.30
		For Flat Oval, Add	3.08	
		For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0856	LF	10" x 22", 18 Gauge Galvanized Steel Duct	82.86	36.59
		For Flat Oval, Add	3.28	
		For Work In Restricted Working Space, Add	18.30	
23 31 13 13-0857	LF	10" x 24", 18 Gauge Galvanized Steel Duct	88.02	38.88
		For Flat Oval, Add	3.48	
		For Work In Restricted Working Space, Add	19.44	
23 31 13 13-0858	LF	10" x 26", 18 Gauge Galvanized Steel Duct	93.22	41.16
		For Flat Oval, Add	3.69	
		For Work In Restricted Working Space, Add	20.58	
23 31 13 13-0859	LF	10" x 28", 18 Gauge Galvanized Steel Duct	98.40	43.45
		For Flat Oval, Add	3.90	
		For Work In Restricted Working Space, Add	21.73	
23 31 13 13-0860	LF	10" x 30", 18 Gauge Galvanized Steel Duct	103.57	45.73
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.87	
23 31 13 13-0861	LF	10" x 32", 18 Gauge Galvanized Steel Duct	108.73	48.03
		For Flat Oval, Add	4.31	
		For Work In Restricted Working Space, Add	24.01	
23 31 13 13-0862	LF	12" x 12", 18 Gauge Galvanized Steel Duct	62.13	27.44
		For Flat Oval, Add	2.46	
		For Work In Restricted Working Space, Add	13.72	
23 31 13 13-0863	LF	12" x 14", 18 Gauge Galvanized Steel Duct	67.32	29.72
		For Flat Oval, Add	2.67	
		For Work In Restricted Working Space, Add	14.86	
23 31 13 13-0864	LF	12" x 16", 18 Gauge Galvanized Steel Duct	72.50	32.02
		For Flat Oval, Add	2.87	
		For Work In Restricted Working Space, Add	16.01	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0865 LF 12" x 18", 18 Gauge Galvanized Steel Duct	77.68	34.30
For Flat Oval, Add	3.08	
For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0866 LF 12" x 20", 18 Gauge Galvanized Steel Duct	82.86	36.59
For Flat Oval, Add	3.28	
For Work In Restricted Working Space, Add	18.30	
23 31 13 13-0867 LF 12" x 22", 18 Gauge Galvanized Steel Duct	88.02	38.88
For Flat Oval, Add	3.48	
For Work In Restricted Working Space, Add	19.44	
23 31 13 13-0868 LF 12" x 24", 18 Gauge Galvanized Steel Duct	93.22	41.16
For Flat Oval, Add	3.69	
For Work In Restricted Working Space, Add	20.58	
23 31 13 13-0869 LF 12" x 26", 18 Gauge Galvanized Steel Duct	98.40	43.45
For Flat Oval, Add	3.90	
For Work In Restricted Working Space, Add	21.73	
23 31 13 13-0870 LF 12" x 28", 18 Gauge Galvanized Steel Duct	103.57	45.73
For Flat Oval, Add	4.10	
For Work In Restricted Working Space, Add	22.87	
23 31 13 13-0871 LF 12" x 30", 18 Gauge Galvanized Steel Duct	108.73	48.03
For Flat Oval, Add	4.31	
For Work In Restricted Working Space, Add	24.01	
23 31 13 13-0872 LF 12" x 32", 18 Gauge Galvanized Steel Duct	113.92	50.31
For Flat Oval, Add	4.51	
For Work In Restricted Working Space, Add	25.16	
23 31 13 13-0873 LF 12" x 34", 18 Gauge Galvanized Steel Duct	119.11	52.59
For Flat Oval, Add	4.72	
For Work In Restricted Working Space, Add	26.30	
23 31 13 13-0874 LF 12" x 36", 18 Gauge Galvanized Steel Duct	124.28	54.88
For Flat Oval, Add	4.92	
For Work In Restricted Working Space, Add	27.44	
23 31 13 13-0875 LF 14" x 14", 18 Gauge Galvanized Steel Duct	72.50	32.02
For Flat Oval, Add	2.87	
For Work In Restricted Working Space, Add	16.01	
23 31 13 13-0876 LF 14" x 16", 18 Gauge Galvanized Steel Duct	77.68	34.30
For Flat Oval, Add	3.08	
For Work In Restricted Working Space, Add	17.15	
23 31 13 13-0877 LF 14" x 18", 18 Gauge Galvanized Steel Duct	82.86	36.59
For Flat Oval, Add	3.28	
For Work In Restricted Working Space, Add	18.30	
23 31 13 13-0878 LF 14" x 20", 18 Gauge Galvanized Steel Duct	88.02	38.88
For Flat Oval, Add	3.48	
For Work In Restricted Working Space, Add	19.44	
23 31 13 13-0879 LF 14" x 22", 18 Gauge Galvanized Steel Duct	93.22	41.16
For Flat Oval, Add	3.69	
For Work In Restricted Working Space, Add	20.58	
23 31 13 13-0880 LF 14" x 24", 18 Gauge Galvanized Steel Duct	98.40	43.45
For Flat Oval, Add	3.90	
For Work In Restricted Working Space, Add	21.73	
23 31 13 13-0881 LF 14" x 26", 18 Gauge Galvanized Steel Duct	103.57	45.73
For Flat Oval, Add	4.10	
For Work In Restricted Working Space, Add	22.87	
23 31 13 13-0882 LF 14" x 28", 18 Gauge Galvanized Steel Duct	108.73	48.03
For Flat Oval, Add	4.31	
For Work In Restricted Working Space, Add	24.01	
23 31 13 13-0883 LF 14" x 30", 18 Gauge Galvanized Steel Duct	113.92	50.31
For Flat Oval, Add	4.51	
For Work In Restricted Working Space, Add	25.16	
23 31 13 13-0884 LF 14" x 32", 18 Gauge Galvanized Steel Duct	119.11	52.59
For Flat Oval, Add	4.72	
For Work In Restricted Working Space, Add	26.30	
23 31 13 13-0885 LF 14" x 34", 18 Gauge Galvanized Steel Duct	124.28	54.88
For Flat Oval, Add	4.92	
For Work In Restricted Working Space, Add	27.44	
23 31 13 13-0886 LF 14" x 36", 18 Gauge Galvanized Steel Duct	129.47	57.17
For Flat Oval, Add	5.13	
For Work In Restricted Working Space, Add	28.59	
23 31 13 13-0887 LF 16" x 16", 18 Gauge Galvanized Steel Duct	82.86	36.59
For Flat Oval, Add	3.28	
For Work In Restricted Working Space, Add	18.30	
23 31 13 13-0888 LF 16" x 18", 18 Gauge Galvanized Steel Duct	88.02	38.88
For Flat Oval, Add	3.48	
For Work In Restricted Working Space, Add	19.44	
23 31 13 13-0889 LF 16" x 20", 18 Gauge Galvanized Steel Duct	93.22	41.16
For Flat Oval, Add	3.69	
For Work In Restricted Working Space, Add	20.58	
23 31 13 13-0890 LF 16" x 22", 18 Gauge Galvanized Steel Duct	98.40	43.45
For Flat Oval, Add	3.90	
For Work In Restricted Working Space, Add	21.73	
23 31 13 13-0891 LF 16" x 24", 18 Gauge Galvanized Steel Duct	103.57	45.73
For Flat Oval, Add	4.10	
For Work In Restricted Working Space, Add	22.87	
23 31 13 13-0892 LF 16" x 26", 18 Gauge Galvanized Steel Duct	108.73	48.03
For Flat Oval, Add	4.31	
For Work In Restricted Working Space, Add	24.01	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0893	LF	16" x 28", 18 Gauge Galvanized Steel Duct	113.92	50.31
		For Flat Oval, Add	4.51	
		For Work In Restricted Working Space, Add	25.16	
23 31 13 13-0894	LF	16" x 30", 18 Gauge Galvanized Steel Duct	119.11	52.59
		For Flat Oval, Add	4.72	
		For Work In Restricted Working Space, Add	26.30	
23 31 13 13-0895	LF	16" x 32", 18 Gauge Galvanized Steel Duct	124.28	54.88
		For Flat Oval, Add	4.92	
		For Work In Restricted Working Space, Add	27.44	
23 31 13 13-0896	LF	16" x 34", 18 Gauge Galvanized Steel Duct	129.47	57.17
		For Flat Oval, Add	5.13	
		For Work In Restricted Working Space, Add	28.59	
23 31 13 13-0897	LF	16" x 36", 18 Gauge Galvanized Steel Duct	134.63	59.46
		For Flat Oval, Add	5.33	
		For Work In Restricted Working Space, Add	29.73	
23 31 13 13-0898	LF	16" x 38", 18 Gauge Galvanized Steel Duct	139.80	61.74
		For Flat Oval, Add	5.54	
		For Work In Restricted Working Space, Add	30.87	
23 31 13 13-0899	LF	16" x 40", 18 Gauge Galvanized Steel Duct	145.01	64.03
		For Flat Oval, Add	5.74	
		For Work In Restricted Working Space, Add	32.02	
23 31 13 13-0900	LF	16" x 42", 18 Gauge Galvanized Steel Duct	150.18	66.32
		For Flat Oval, Add	5.95	
		For Work In Restricted Working Space, Add	33.16	
23 31 13 13-0901	LF	16" x 44", 18 Gauge Galvanized Steel Duct	155.34	68.60
		For Flat Oval, Add	6.15	
		For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0902	LF	18" x 18", 18 Gauge Galvanized Steel Duct	93.22	41.16
		For Flat Oval, Add	3.69	
		For Work In Restricted Working Space, Add	20.58	
23 31 13 13-0903	LF	18" x 20", 18 Gauge Galvanized Steel Duct	98.40	43.45
		For Flat Oval, Add	3.90	
		For Work In Restricted Working Space, Add	21.73	
23 31 13 13-0904	LF	18" x 22", 18 Gauge Galvanized Steel Duct	103.57	45.73
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.87	
23 31 13 13-0905	LF	18" x 24", 18 Gauge Galvanized Steel Duct	108.73	48.03
		For Flat Oval, Add	4.31	
		For Work In Restricted Working Space, Add	24.01	
23 31 13 13-0906	LF	18" x 26", 18 Gauge Galvanized Steel Duct	113.92	50.31
		For Flat Oval, Add	4.51	
		For Work In Restricted Working Space, Add	25.16	
23 31 13 13-0907	LF	18" x 28", 18 Gauge Galvanized Steel Duct	119.11	52.59
		For Flat Oval, Add	4.72	
		For Work In Restricted Working Space, Add	26.30	
23 31 13 13-0908	LF	18" x 30", 18 Gauge Galvanized Steel Duct	124.28	54.88
		For Flat Oval, Add	4.92	
		For Work In Restricted Working Space, Add	27.44	
23 31 13 13-0909	LF	18" x 32", 18 Gauge Galvanized Steel Duct	129.47	57.17
		For Flat Oval, Add	5.13	
		For Work In Restricted Working Space, Add	28.59	
23 31 13 13-0910	LF	18" x 34", 18 Gauge Galvanized Steel Duct	134.63	59.46
		For Flat Oval, Add	5.33	
		For Work In Restricted Working Space, Add	29.73	
23 31 13 13-0911	LF	18" x 36", 18 Gauge Galvanized Steel Duct	139.80	61.74
		For Flat Oval, Add	5.54	
		For Work In Restricted Working Space, Add	30.87	
23 31 13 13-0912	LF	18" x 38", 18 Gauge Galvanized Steel Duct	145.01	64.03
		For Flat Oval, Add	5.74	
		For Work In Restricted Working Space, Add	32.02	
23 31 13 13-0913	LF	18" x 40", 18 Gauge Galvanized Steel Duct	150.18	66.32
		For Flat Oval, Add	5.95	
		For Work In Restricted Working Space, Add	33.16	
23 31 13 13-0914	LF	18" x 42", 18 Gauge Galvanized Steel Duct	155.34	68.60
		For Flat Oval, Add	6.15	
		For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0915	LF	18" x 44", 18 Gauge Galvanized Steel Duct	160.52	70.89
		For Flat Oval, Add	6.36	
		For Work In Restricted Working Space, Add	35.45	
23 31 13 13-0916	LF	18" x 46", 18 Gauge Galvanized Steel Duct	165.72	73.18
		For Flat Oval, Add	6.56	
		For Work In Restricted Working Space, Add	36.59	
23 31 13 13-0917	LF	20" x 20", 18 Gauge Galvanized Steel Duct	103.57	45.73
		For Flat Oval, Add	4.10	
		For Work In Restricted Working Space, Add	22.87	
23 31 13 13-0918	LF	20" x 22", 18 Gauge Galvanized Steel Duct	108.73	48.03
		For Flat Oval, Add	4.31	
		For Work In Restricted Working Space, Add	24.01	
23 31 13 13-0919	LF	20" x 24", 18 Gauge Galvanized Steel Duct	113.92	50.31
		For Flat Oval, Add	4.51	
		For Work In Restricted Working Space, Add	25.16	
23 31 13 13-0920	LF	20" x 26", 18 Gauge Galvanized Steel Duct	119.11	52.59
		For Flat Oval, Add	4.72	
		For Work In Restricted Working Space, Add	26.30	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts And Casings			23 31

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0921	LF	20" x 28", 18 Gauge Galvanized Steel Duct	.....	124.28	54.88
		For Flat Oval, Add	.....	4.92	
		For Work In Restricted Working Space, Add	.....	27.44	
23 31 13 13-0922	LF	20" x 30", 18 Gauge Galvanized Steel Duct	.....	129.47	57.17
		For Flat Oval, Add	.....	5.13	
		For Work In Restricted Working Space, Add	.....	28.59	
23 31 13 13-0923	LF	20" x 32", 18 Gauge Galvanized Steel Duct	.....	134.63	59.46
		For Flat Oval, Add	.....	5.33	
		For Work In Restricted Working Space, Add	.....	29.73	
23 31 13 13-0924	LF	20" x 34", 18 Gauge Galvanized Steel Duct	.....	139.80	61.74
		For Flat Oval, Add	.....	5.54	
		For Work In Restricted Working Space, Add	.....	30.87	
23 31 13 13-0925	LF	20" x 36", 18 Gauge Galvanized Steel Duct	.....	145.01	64.03
		For Flat Oval, Add	.....	5.74	
		For Work In Restricted Working Space, Add	.....	32.02	
23 31 13 13-0926	LF	20" x 38", 18 Gauge Galvanized Steel Duct	.....	150.18	66.32
		For Flat Oval, Add	.....	5.95	
		For Work In Restricted Working Space, Add	.....	33.16	
23 31 13 13-0927	LF	20" x 40", 18 Gauge Galvanized Steel Duct	.....	155.34	68.60
		For Flat Oval, Add	.....	6.15	
		For Work In Restricted Working Space, Add	.....	34.30	
23 31 13 13-0928	LF	20" x 42", 18 Gauge Galvanized Steel Duct	.....	160.52	70.89
		For Flat Oval, Add	.....	6.36	
		For Work In Restricted Working Space, Add	.....	35.45	
23 31 13 13-0929	LF	20" x 44", 18 Gauge Galvanized Steel Duct	.....	165.72	73.18
		For Flat Oval, Add	.....	6.56	
		For Work In Restricted Working Space, Add	.....	36.59	
23 31 13 13-0930	LF	20" x 46", 18 Gauge Galvanized Steel Duct	.....	170.89	75.46
		For Flat Oval, Add	.....	6.77	
		For Work In Restricted Working Space, Add	.....	37.73	
23 31 13 13-0931	LF	20" x 48", 18 Gauge Galvanized Steel Duct	.....	176.07	77.75
		For Flat Oval, Add	.....	6.97	
		For Work In Restricted Working Space, Add	.....	38.88	
23 31 13 13-0932	LF	22" x 22", 18 Gauge Galvanized Steel Duct	.....	113.92	50.31
		For Flat Oval, Add	.....	4.51	
		For Work In Restricted Working Space, Add	.....	25.16	
23 31 13 13-0933	LF	22" x 24", 18 Gauge Galvanized Steel Duct	.....	119.11	52.59
		For Flat Oval, Add	.....	4.72	
		For Work In Restricted Working Space, Add	.....	26.30	
23 31 13 13-0934	LF	22" x 26", 18 Gauge Galvanized Steel Duct	.....	124.28	54.88
		For Flat Oval, Add	.....	4.92	
		For Work In Restricted Working Space, Add	.....	27.44	
23 31 13 13-0935	LF	22" x 28", 18 Gauge Galvanized Steel Duct	.....	129.47	57.17
		For Flat Oval, Add	.....	5.13	
		For Work In Restricted Working Space, Add	.....	28.59	
23 31 13 13-0936	LF	22" x 30", 18 Gauge Galvanized Steel Duct	.....	134.63	59.46
		For Flat Oval, Add	.....	5.33	
		For Work In Restricted Working Space, Add	.....	29.73	
23 31 13 13-0937	LF	22" x 32", 18 Gauge Galvanized Steel Duct	.....	139.80	61.74
		For Flat Oval, Add	.....	5.54	
		For Work In Restricted Working Space, Add	.....	30.87	
23 31 13 13-0938	LF	22" x 34", 18 Gauge Galvanized Steel Duct	.....	145.01	64.03
		For Flat Oval, Add	.....	5.74	
		For Work In Restricted Working Space, Add	.....	32.02	
23 31 13 13-0939	LF	22" x 36", 18 Gauge Galvanized Steel Duct	.....	150.18	66.32
		For Flat Oval, Add	.....	5.95	
		For Work In Restricted Working Space, Add	.....	33.16	
23 31 13 13-0940	LF	22" x 38", 18 Gauge Galvanized Steel Duct	.....	155.34	68.60
		For Flat Oval, Add	.....	6.15	
		For Work In Restricted Working Space, Add	.....	34.30	
23 31 13 13-0941	LF	22" x 40", 18 Gauge Galvanized Steel Duct	.....	160.52	70.89
		For Flat Oval, Add	.....	6.36	
		For Work In Restricted Working Space, Add	.....	35.45	
23 31 13 13-0942	LF	22" x 42", 18 Gauge Galvanized Steel Duct	.....	165.72	73.18
		For Flat Oval, Add	.....	6.56	
		For Work In Restricted Working Space, Add	.....	36.59	
23 31 13 13-0943	LF	22" x 44", 18 Gauge Galvanized Steel Duct	.....	170.89	75.46
		For Flat Oval, Add	.....	6.77	
		For Work In Restricted Working Space, Add	.....	37.73	
23 31 13 13-0944	LF	22" x 46", 18 Gauge Galvanized Steel Duct	.....	176.07	77.75
		For Flat Oval, Add	.....	6.97	
		For Work In Restricted Working Space, Add	.....	38.88	
23 31 13 13-0945	LF	22" x 48", 18 Gauge Galvanized Steel Duct	.....	181.24	80.03
		For Flat Oval, Add	.....	7.18	
		For Work In Restricted Working Space, Add	.....	40.02	
23 31 13 13-0946	LF	24" x 24", 18 Gauge Galvanized Steel Duct	.....	124.28	54.88
		For Flat Oval, Add	.....	4.92	
		For Work In Restricted Working Space, Add	.....	27.44	
23 31 13 13-0947	LF	24" x 26", 18 Gauge Galvanized Steel Duct	.....	129.47	57.17
		For Flat Oval, Add	.....	5.13	
		For Work In Restricted Working Space, Add	.....	28.59	
23 31 13 13-0948	LF	24" x 28", 18 Gauge Galvanized Steel Duct	.....	134.63	59.46
		For Flat Oval, Add	.....	5.33	
		For Work In Restricted Working Space, Add	.....	29.73	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0949 LF 24" x 30", 18 Gauge Galvanized Steel Duct	139.80	61.74
For Flat Oval, Add	5.54	
For Work In Restricted Working Space, Add	30.87	
23 31 13 13-0950 LF 24" x 32", 18 Gauge Galvanized Steel Duct	145.01	64.03
For Flat Oval, Add	5.74	
For Work In Restricted Working Space, Add	32.02	
23 31 13 13-0951 LF 24" x 34", 18 Gauge Galvanized Steel Duct	150.18	66.32
For Flat Oval, Add	5.95	
For Work In Restricted Working Space, Add	33.16	
23 31 13 13-0952 LF 24" x 36", 18 Gauge Galvanized Steel Duct	155.34	68.60
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0953 LF 24" x 38", 18 Gauge Galvanized Steel Duct	160.52	70.89
For Flat Oval, Add	6.36	
For Work In Restricted Working Space, Add	35.45	
23 31 13 13-0954 LF 24" x 40", 18 Gauge Galvanized Steel Duct	165.72	73.18
For Flat Oval, Add	6.56	
For Work In Restricted Working Space, Add	36.59	
23 31 13 13-0955 LF 24" x 42", 18 Gauge Galvanized Steel Duct	170.89	75.46
For Flat Oval, Add	6.77	
For Work In Restricted Working Space, Add	37.73	
23 31 13 13-0956 LF 24" x 44", 18 Gauge Galvanized Steel Duct	176.07	77.75
For Flat Oval, Add	6.97	
For Work In Restricted Working Space, Add	38.88	
23 31 13 13-0957 LF 24" x 46", 18 Gauge Galvanized Steel Duct	181.24	80.03
For Flat Oval, Add	7.18	
For Work In Restricted Working Space, Add	40.02	
23 31 13 13-0958 LF 24" x 48", 18 Gauge Galvanized Steel Duct	186.41	82.33
For Flat Oval, Add	7.38	
For Work In Restricted Working Space, Add	41.16	
23 31 13 13-0959 LF 26" x 26", 18 Gauge Galvanized Steel Duct	134.63	59.46
For Flat Oval, Add	5.33	
For Work In Restricted Working Space, Add	29.73	
23 31 13 13-0960 LF 26" x 28", 18 Gauge Galvanized Steel Duct	139.80	61.74
For Flat Oval, Add	5.54	
For Work In Restricted Working Space, Add	30.87	
23 31 13 13-0961 LF 26" x 30", 18 Gauge Galvanized Steel Duct	145.01	64.03
For Flat Oval, Add	5.74	
For Work In Restricted Working Space, Add	32.02	
23 31 13 13-0962 LF 26" x 32", 18 Gauge Galvanized Steel Duct	150.18	66.32
For Flat Oval, Add	5.95	
For Work In Restricted Working Space, Add	33.16	
23 31 13 13-0963 LF 26" x 34", 18 Gauge Galvanized Steel Duct	155.34	68.60
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0964 LF 26" x 36", 18 Gauge Galvanized Steel Duct	160.52	70.89
For Flat Oval, Add	6.36	
For Work In Restricted Working Space, Add	35.45	
23 31 13 13-0965 LF 26" x 38", 18 Gauge Galvanized Steel Duct	165.72	73.18
For Flat Oval, Add	6.56	
For Work In Restricted Working Space, Add	36.59	
23 31 13 13-0966 LF 26" x 40", 18 Gauge Galvanized Steel Duct	170.89	75.46
For Flat Oval, Add	6.77	
For Work In Restricted Working Space, Add	37.73	
23 31 13 13-0967 LF 26" x 42", 18 Gauge Galvanized Steel Duct	176.07	77.75
For Flat Oval, Add	6.97	
For Work In Restricted Working Space, Add	38.88	
23 31 13 13-0968 LF 26" x 44", 18 Gauge Galvanized Steel Duct	181.24	80.03
For Flat Oval, Add	7.18	
For Work In Restricted Working Space, Add	40.02	
23 31 13 13-0969 LF 26" x 46", 18 Gauge Galvanized Steel Duct	186.41	82.33
For Flat Oval, Add	7.38	
For Work In Restricted Working Space, Add	41.16	
23 31 13 13-0970 LF 26" x 48", 18 Gauge Galvanized Steel Duct	191.61	84.61
For Flat Oval, Add	7.59	
For Work In Restricted Working Space, Add	42.31	
23 31 13 13-0971 LF 28" x 28", 18 Gauge Galvanized Steel Duct	145.01	64.03
For Flat Oval, Add	5.74	
For Work In Restricted Working Space, Add	32.02	
23 31 13 13-0972 LF 28" x 30", 18 Gauge Galvanized Steel Duct	150.18	66.32
For Flat Oval, Add	5.95	
For Work In Restricted Working Space, Add	33.16	
23 31 13 13-0973 LF 28" x 32", 18 Gauge Galvanized Steel Duct	155.34	68.60
For Flat Oval, Add	6.15	
For Work In Restricted Working Space, Add	34.30	
23 31 13 13-0974 LF 28" x 34", 18 Gauge Galvanized Steel Duct	160.52	70.89
For Flat Oval, Add	6.36	
For Work In Restricted Working Space, Add	35.45	
23 31 13 13-0975 LF 28" x 36", 18 Gauge Galvanized Steel Duct	165.72	73.18
For Flat Oval, Add	6.56	
For Work In Restricted Working Space, Add	36.59	
23 31 13 13-0976 LF 28" x 38", 18 Gauge Galvanized Steel Duct	170.89	75.46
For Flat Oval, Add	6.77	
For Work In Restricted Working Space, Add	37.73	



Heating, Ventilating, And Air-Conditioning (HVAC)			23	23
HVAC Air Distribution			23 30	
HVAC Ducts And Casings			23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0977	LF	28" x 40", 18 Gauge Galvanized Steel Duct	.....	176.07	77.75
		For Flat Oval, Add	.....	6.97	
		For Work In Restricted Working Space, Add	.....	38.88	
23 31 13 13-0978	LF	28" x 42", 18 Gauge Galvanized Steel Duct	.....	181.24	80.03
		For Flat Oval, Add	.....	7.18	
		For Work In Restricted Working Space, Add	.....	40.02	
23 31 13 13-0979	LF	28" x 44", 18 Gauge Galvanized Steel Duct	.....	186.41	82.33
		For Flat Oval, Add	.....	7.38	
		For Work In Restricted Working Space, Add	.....	41.16	
23 31 13 13-0980	LF	28" x 46", 18 Gauge Galvanized Steel Duct	.....	191.61	84.61
		For Flat Oval, Add	.....	7.59	
		For Work In Restricted Working Space, Add	.....	42.31	
23 31 13 13-0981	LF	28" x 48", 18 Gauge Galvanized Steel Duct	.....	196.79	86.89
		For Flat Oval, Add	.....	7.79	
		For Work In Restricted Working Space, Add	.....	43.45	
23 31 13 13-0982	LF	30" x 30", 18 Gauge Galvanized Steel Duct	.....	155.34	68.60
		For Flat Oval, Add	.....	6.15	
		For Work In Restricted Working Space, Add	.....	34.30	
23 31 13 13-0983	LF	30" x 32", 18 Gauge Galvanized Steel Duct	.....	160.52	70.89
		For Flat Oval, Add	.....	6.36	
		For Work In Restricted Working Space, Add	.....	35.45	
23 31 13 13-0984	LF	30" x 34", 18 Gauge Galvanized Steel Duct	.....	165.72	73.18
		For Flat Oval, Add	.....	6.56	
		For Work In Restricted Working Space, Add	.....	36.59	
23 31 13 13-0985	LF	30" x 36", 18 Gauge Galvanized Steel Duct	.....	170.89	75.46
		For Flat Oval, Add	.....	6.77	
		For Work In Restricted Working Space, Add	.....	37.73	
23 31 13 13-0986	LF	30" x 38", 18 Gauge Galvanized Steel Duct	.....	176.07	77.75
		For Flat Oval, Add	.....	6.97	
		For Work In Restricted Working Space, Add	.....	38.88	
23 31 13 13-0987	LF	30" x 40", 18 Gauge Galvanized Steel Duct	.....	181.24	80.03
		For Flat Oval, Add	.....	7.18	
		For Work In Restricted Working Space, Add	.....	40.02	
23 31 13 13-0988	LF	30" x 42", 18 Gauge Galvanized Steel Duct	.....	186.41	82.33
		For Flat Oval, Add	.....	7.38	
		For Work In Restricted Working Space, Add	.....	41.16	
23 31 13 13-0989	LF	30" x 44", 18 Gauge Galvanized Steel Duct	.....	191.61	84.61
		For Flat Oval, Add	.....	7.59	
		For Work In Restricted Working Space, Add	.....	42.31	
23 31 13 13-0990	LF	30" x 46", 18 Gauge Galvanized Steel Duct	.....	196.79	86.89
		For Flat Oval, Add	.....	7.79	
		For Work In Restricted Working Space, Add	.....	43.45	
23 31 13 13-0991	LF	30" x 48", 18 Gauge Galvanized Steel Duct	.....	201.95	89.19
		For Flat Oval, Add	.....	8.00	
		For Work In Restricted Working Space, Add	.....	44.59	
23 31 13 13-0992	LF	32" x 32", 18 Gauge Galvanized Steel Duct	.....	165.72	73.18
		For Flat Oval, Add	.....	6.56	
		For Work In Restricted Working Space, Add	.....	36.59	
23 31 13 13-0993	LF	32" x 34", 18 Gauge Galvanized Steel Duct	.....	170.89	75.46
		For Flat Oval, Add	.....	6.77	
		For Work In Restricted Working Space, Add	.....	37.73	
23 31 13 13-0994	LF	32" x 36", 18 Gauge Galvanized Steel Duct	.....	176.07	77.75
		For Flat Oval, Add	.....	6.97	
		For Work In Restricted Working Space, Add	.....	38.88	
23 31 13 13-0995	LF	32" x 38", 18 Gauge Galvanized Steel Duct	.....	181.24	80.03
		For Flat Oval, Add	.....	7.18	
		For Work In Restricted Working Space, Add	.....	40.02	
23 31 13 13-0996	LF	32" x 40", 18 Gauge Galvanized Steel Duct	.....	186.41	82.33
		For Flat Oval, Add	.....	7.38	
		For Work In Restricted Working Space, Add	.....	41.16	
23 31 13 13-0997	LF	32" x 42", 18 Gauge Galvanized Steel Duct	.....	191.61	84.61
		For Flat Oval, Add	.....	7.59	
		For Work In Restricted Working Space, Add	.....	42.31	
23 31 13 13-0998	LF	32" x 44", 18 Gauge Galvanized Steel Duct	.....	196.79	86.89
		For Flat Oval, Add	.....	7.79	
		For Work In Restricted Working Space, Add	.....	43.45	
23 31 13 13-0999	LF	32" x 46", 18 Gauge Galvanized Steel Duct	.....	201.95	89.19
		For Flat Oval, Add	.....	8.00	
		For Work In Restricted Working Space, Add	.....	44.59	
23 31 13 13-1000	LF	32" x 48", 18 Gauge Galvanized Steel Duct	.....	207.13	91.47
		For Flat Oval, Add	.....	8.20	
		For Work In Restricted Working Space, Add	.....	45.74	
23 31 13 13-1001	LF	34" x 34", 18 Gauge Galvanized Steel Duct	.....	176.07	77.75
		For Flat Oval, Add	.....	6.97	
		For Work In Restricted Working Space, Add	.....	38.88	
23 31 13 13-1002	LF	34" x 36", 18 Gauge Galvanized Steel Duct	.....	181.24	80.03
		For Flat Oval, Add	.....	7.18	
		For Work In Restricted Working Space, Add	.....	40.02	
23 31 13 13-1003	LF	34" x 38", 18 Gauge Galvanized Steel Duct	.....	186.41	82.33
		For Flat Oval, Add	.....	7.38	
		For Work In Restricted Working Space, Add	.....	41.16	
23 31 13 13-1004	LF	34" x 40", 18 Gauge Galvanized Steel Duct	.....	191.61	84.61
		For Flat Oval, Add	.....	7.59	
		For Work In Restricted Working Space, Add	.....	42.31	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1005	LF	34" x 42", 18 Gauge Galvanized Steel Duct	196.79	86.89
		For Flat Oval, Add	7.79	
		For Work In Restricted Working Space, Add	43.45	
23 31 13 13-1006	LF	34" x 44", 18 Gauge Galvanized Steel Duct	201.95	89.19
		For Flat Oval, Add	8.00	
		For Work In Restricted Working Space, Add	44.59	
23 31 13 13-1007	LF	34" x 46", 18 Gauge Galvanized Steel Duct	207.13	91.47
		For Flat Oval, Add	8.20	
		For Work In Restricted Working Space, Add	45.74	
23 31 13 13-1008	LF	34" x 48", 18 Gauge Galvanized Steel Duct	212.30	93.76
		For Flat Oval, Add	8.41	
		For Work In Restricted Working Space, Add	46.88	
23 31 13 13-1009	LF	36" x 36", 18 Gauge Galvanized Steel Duct	186.41	82.33
		For Flat Oval, Add	7.38	
		For Work In Restricted Working Space, Add	41.16	
23 31 13 13-1010	LF	36" x 38", 18 Gauge Galvanized Steel Duct	191.61	84.61
		For Flat Oval, Add	7.59	
		For Work In Restricted Working Space, Add	42.31	
23 31 13 13-1011	LF	36" x 40", 18 Gauge Galvanized Steel Duct	196.79	86.89
		For Flat Oval, Add	7.79	
		For Work In Restricted Working Space, Add	43.45	
23 31 13 13-1012	LF	36" x 42", 18 Gauge Galvanized Steel Duct	201.95	89.19
		For Flat Oval, Add	8.00	
		For Work In Restricted Working Space, Add	44.59	
23 31 13 13-1013	LF	36" x 44", 18 Gauge Galvanized Steel Duct	207.13	91.47
		For Flat Oval, Add	8.20	
		For Work In Restricted Working Space, Add	45.74	
23 31 13 13-1014	LF	36" x 46", 18 Gauge Galvanized Steel Duct	212.30	93.76
		For Flat Oval, Add	8.41	
		For Work In Restricted Working Space, Add	46.88	
23 31 13 13-1015	LF	36" x 48", 18 Gauge Galvanized Steel Duct	217.51	96.04
		For Flat Oval, Add	8.61	
		For Work In Restricted Working Space, Add	48.02	
23 31 13 13-1016	LF	38" x 38", 18 Gauge Galvanized Steel Duct	196.79	86.89
		For Flat Oval, Add	7.79	
		For Work In Restricted Working Space, Add	43.45	
23 31 13 13-1017	LF	38" x 40", 18 Gauge Galvanized Steel Duct	201.95	89.19
		For Flat Oval, Add	8.00	
		For Work In Restricted Working Space, Add	44.59	
23 31 13 13-1018	LF	38" x 42", 18 Gauge Galvanized Steel Duct	207.13	91.47
		For Flat Oval, Add	8.20	
		For Work In Restricted Working Space, Add	45.74	
23 31 13 13-1019	LF	38" x 44", 18 Gauge Galvanized Steel Duct	212.30	93.76
		For Flat Oval, Add	8.41	
		For Work In Restricted Working Space, Add	46.88	
23 31 13 13-1020	LF	38" x 46", 18 Gauge Galvanized Steel Duct	217.51	96.04
		For Flat Oval, Add	8.61	
		For Work In Restricted Working Space, Add	48.02	
23 31 13 13-1021	LF	38" x 48", 18 Gauge Galvanized Steel Duct	222.68	98.34
		For Flat Oval, Add	8.82	
		For Work In Restricted Working Space, Add	49.17	
23 31 13 13-1022	LF	38" x 50", 18 Gauge Galvanized Steel Duct	227.84	100.62
		For Flat Oval, Add	9.02	
		For Work In Restricted Working Space, Add	50.31	
23 31 13 13-1023	LF	40" x 40", 18 Gauge Galvanized Steel Duct	207.13	91.47
		For Flat Oval, Add	8.20	
		For Work In Restricted Working Space, Add	45.74	
23 31 13 13-1024	LF	40" x 42", 18 Gauge Galvanized Steel Duct	212.30	93.76
		For Flat Oval, Add	8.41	
		For Work In Restricted Working Space, Add	46.88	
23 31 13 13-1025	LF	40" x 44", 18 Gauge Galvanized Steel Duct	217.51	96.04
		For Flat Oval, Add	8.61	
		For Work In Restricted Working Space, Add	48.02	
23 31 13 13-1026	LF	40" x 46", 18 Gauge Galvanized Steel Duct	222.68	98.34
		For Flat Oval, Add	8.82	
		For Work In Restricted Working Space, Add	49.17	
23 31 13 13-1027	LF	40" x 48", 18 Gauge Galvanized Steel Duct	227.84	100.62
		For Flat Oval, Add	9.02	
		For Work In Restricted Working Space, Add	50.31	
23 31 13 13-1028	LF	40" x 50", 18 Gauge Galvanized Steel Duct	233.03	102.90
		For Flat Oval, Add	9.23	
		For Work In Restricted Working Space, Add	51.45	
23 31 13 13-1029	LF	40" x 52", 18 Gauge Galvanized Steel Duct	238.20	105.19
		For Flat Oval, Add	9.43	
		For Work In Restricted Working Space, Add	52.60	
23 31 13 13-1030	LF	40" x 54", 18 Gauge Galvanized Steel Duct	243.39	107.48
		For Flat Oval, Add	9.64	
		For Work In Restricted Working Space, Add	53.74	
23 31 13 13-1031	LF	40" x 56", 18 Gauge Galvanized Steel Duct	248.58	109.77
		For Flat Oval, Add	9.84	
		For Work In Restricted Working Space, Add	54.89	
23 31 13 13-1032	LF	42" x 42", 18 Gauge Galvanized Steel Duct	217.51	96.04
		For Flat Oval, Add	8.61	
		For Work In Restricted Working Space, Add	48.02	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts And Casings			23 31

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1033	LF	42" x 44", 18 Gauge Galvanized Steel Duct	222.68	98.34
		For Flat Oval, Add	8.82	
		For Work In Restricted Working Space, Add	49.17	
23 31 13 13-1034	LF	42" x 46", 18 Gauge Galvanized Steel Duct	227.84	100.62
		For Flat Oval, Add	9.02	
		For Work In Restricted Working Space, Add	50.31	
23 31 13 13-1035	LF	42" x 48", 18 Gauge Galvanized Steel Duct	233.03	102.90
		For Flat Oval, Add	9.23	
		For Work In Restricted Working Space, Add	51.45	
23 31 13 13-1036	LF	42" x 50", 18 Gauge Galvanized Steel Duct	238.20	105.19
		For Flat Oval, Add	9.43	
		For Work In Restricted Working Space, Add	52.60	
23 31 13 13-1037	LF	42" x 52", 18 Gauge Galvanized Steel Duct	243.39	107.48
		For Flat Oval, Add	9.64	
		For Work In Restricted Working Space, Add	53.74	
23 31 13 13-1038	LF	42" x 54", 18 Gauge Galvanized Steel Duct	248.58	109.77
		For Flat Oval, Add	9.84	
		For Work In Restricted Working Space, Add	54.89	
23 31 13 13-1039	LF	42" x 56", 18 Gauge Galvanized Steel Duct	253.74	112.05
		For Flat Oval, Add	10.05	
		For Work In Restricted Working Space, Add	56.03	
23 31 13 13-1040	LF	44" x 44", 18 Gauge Galvanized Steel Duct	227.84	100.62
		For Flat Oval, Add	9.02	
		For Work In Restricted Working Space, Add	50.31	
23 31 13 13-1041	LF	44" x 46", 18 Gauge Galvanized Steel Duct	233.03	102.90
		For Flat Oval, Add	9.23	
		For Work In Restricted Working Space, Add	51.45	
23 31 13 13-1042	LF	44" x 48", 18 Gauge Galvanized Steel Duct	238.20	105.19
		For Flat Oval, Add	9.43	
		For Work In Restricted Working Space, Add	52.60	
23 31 13 13-1043	LF	44" x 50", 18 Gauge Galvanized Steel Duct	243.39	107.48
		For Flat Oval, Add	9.64	
		For Work In Restricted Working Space, Add	53.74	
23 31 13 13-1044	LF	44" x 52", 18 Gauge Galvanized Steel Duct	248.58	109.77
		For Flat Oval, Add	9.84	
		For Work In Restricted Working Space, Add	54.89	
23 31 13 13-1045	LF	44" x 54", 18 Gauge Galvanized Steel Duct	253.74	112.05
		For Flat Oval, Add	10.05	
		For Work In Restricted Working Space, Add	56.03	
23 31 13 13-1046	LF	44" x 56", 18 Gauge Galvanized Steel Duct	258.91	114.33
		For Flat Oval, Add	10.25	
		For Work In Restricted Working Space, Add	57.17	
23 31 13 13-1047	LF	46" x 46", 18 Gauge Galvanized Steel Duct	238.20	105.19
		For Flat Oval, Add	9.43	
		For Work In Restricted Working Space, Add	52.60	
23 31 13 13-1048	LF	46" x 48", 18 Gauge Galvanized Steel Duct	243.39	107.48
		For Flat Oval, Add	9.64	
		For Work In Restricted Working Space, Add	53.74	
23 31 13 13-1049	LF	46" x 50", 18 Gauge Galvanized Steel Duct	248.58	109.77
		For Flat Oval, Add	9.84	
		For Work In Restricted Working Space, Add	54.89	
23 31 13 13-1050	LF	46" x 52", 18 Gauge Galvanized Steel Duct	253.74	112.05
		For Flat Oval, Add	10.05	
		For Work In Restricted Working Space, Add	56.03	
23 31 13 13-1051	LF	46" x 54", 18 Gauge Galvanized Steel Duct	258.91	114.33
		For Flat Oval, Add	10.25	
		For Work In Restricted Working Space, Add	57.17	
23 31 13 13-1052	LF	46" x 56", 18 Gauge Galvanized Steel Duct	264.10	116.63
		For Flat Oval, Add	10.46	
		For Work In Restricted Working Space, Add	58.31	
23 31 13 13-1053	LF	46" x 58", 18 Gauge Galvanized Steel Duct	269.29	118.91
		For Flat Oval, Add	10.67	
		For Work In Restricted Working Space, Add	59.46	
23 31 13 13-1054	LF	48" x 48", 18 Gauge Galvanized Steel Duct	248.58	109.77
		For Flat Oval, Add	9.84	
		For Work In Restricted Working Space, Add	54.89	
23 31 13 13-1055	LF	48" x 50", 18 Gauge Galvanized Steel Duct	253.74	112.05
		For Flat Oval, Add	10.05	
		For Work In Restricted Working Space, Add	56.03	
23 31 13 13-1056	LF	48" x 52", 18 Gauge Galvanized Steel Duct	258.91	114.33
		For Flat Oval, Add	10.25	
		For Work In Restricted Working Space, Add	57.17	
23 31 13 13-1057	LF	48" x 54", 18 Gauge Galvanized Steel Duct	264.10	116.63
		For Flat Oval, Add	10.46	
		For Work In Restricted Working Space, Add	58.31	
23 31 13 13-1058	LF	48" x 56", 18 Gauge Galvanized Steel Duct	269.29	118.91
		For Flat Oval, Add	10.67	
		For Work In Restricted Working Space, Add	59.46	
23 31 13 13-1059	LF	48" x 58", 18 Gauge Galvanized Steel Duct	274.45	121.20
		For Flat Oval, Add	10.87	
		For Work In Restricted Working Space, Add	60.60	
23 31 13 13-1060	LF	48" x 60", 18 Gauge Galvanized Steel Duct	279.63	123.49
		For Flat Oval, Add	11.07	
		For Work In Restricted Working Space, Add	61.74	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1061	LF		50" x 50", 18 Gauge Galvanized Steel Duct	258.91	114.33
			For Flat Oval, Add	10.25	
			For Work In Restricted Working Space, Add	57.17	
23 31 13 13-1062	LF		50" x 52", 18 Gauge Galvanized Steel Duct	264.10	116.63
			For Flat Oval, Add	10.46	
			For Work In Restricted Working Space, Add	58.31	
23 31 13 13-1063	LF		50" x 54", 18 Gauge Galvanized Steel Duct	269.29	118.91
			For Flat Oval, Add	10.67	
			For Work In Restricted Working Space, Add	59.46	
23 31 13 13-1064	LF		50" x 56", 18 Gauge Galvanized Steel Duct	274.45	121.20
			For Flat Oval, Add	10.87	
			For Work In Restricted Working Space, Add	60.60	
23 31 13 13-1065	LF		50" x 58", 18 Gauge Galvanized Steel Duct	279.63	123.49
			For Flat Oval, Add	11.07	
			For Work In Restricted Working Space, Add	61.74	
23 31 13 13-1066	LF		50" x 60", 18 Gauge Galvanized Steel Duct	284.81	125.77
			For Flat Oval, Add	11.28	
			For Work In Restricted Working Space, Add	62.89	
23 31 13 13-1067	LF		52" x 52", 18 Gauge Galvanized Steel Duct	269.29	118.91
			For Flat Oval, Add	10.67	
			For Work In Restricted Working Space, Add	59.46	
23 31 13 13-1068	LF		52" x 54", 18 Gauge Galvanized Steel Duct	274.45	121.20
			For Flat Oval, Add	10.87	
			For Work In Restricted Working Space, Add	60.60	
23 31 13 13-1069	LF		52" x 56", 18 Gauge Galvanized Steel Duct	279.63	123.49
			For Flat Oval, Add	11.07	
			For Work In Restricted Working Space, Add	61.74	
23 31 13 13-1070	LF		52" x 58", 18 Gauge Galvanized Steel Duct	284.81	125.77
			For Flat Oval, Add	11.28	
			For Work In Restricted Working Space, Add	62.89	
23 31 13 13-1071	LF		52" x 60", 18 Gauge Galvanized Steel Duct	289.98	128.06
			For Flat Oval, Add	11.48	
			For Work In Restricted Working Space, Add	64.03	
23 31 13 13-1072	LF		54" x 54", 18 Gauge Galvanized Steel Duct	279.63	123.49
			For Flat Oval, Add	11.07	
			For Work In Restricted Working Space, Add	61.74	
23 31 13 13-1073	LF		54" x 56", 18 Gauge Galvanized Steel Duct	284.81	125.77
			For Flat Oval, Add	11.28	
			For Work In Restricted Working Space, Add	62.89	
23 31 13 13-1074	LF		54" x 58", 18 Gauge Galvanized Steel Duct	289.98	128.06
			For Flat Oval, Add	11.48	
			For Work In Restricted Working Space, Add	64.03	
23 31 13 13-1075	LF		54" x 60", 18 Gauge Galvanized Steel Duct	295.18	130.34
			For Flat Oval, Add	11.69	
			For Work In Restricted Working Space, Add	65.18	
23 31 13 13-1076	LF		54" x 62", 18 Gauge Galvanized Steel Duct	300.35	132.64
			For Flat Oval, Add	11.90	
			For Work In Restricted Working Space, Add	66.32	
23 31 13 13-1077	LF		54" x 64", 18 Gauge Galvanized Steel Duct	305.52	134.92
			For Flat Oval, Add	12.10	
			For Work In Restricted Working Space, Add	67.46	
23 31 13 13-1078	LF		56" x 56", 18 Gauge Galvanized Steel Duct	289.98	128.06
			For Flat Oval, Add	11.48	
			For Work In Restricted Working Space, Add	64.03	
23 31 13 13-1079	LF		56" x 58", 18 Gauge Galvanized Steel Duct	295.18	130.34
			For Flat Oval, Add	11.69	
			For Work In Restricted Working Space, Add	65.18	
23 31 13 13-1080	LF		56" x 60", 18 Gauge Galvanized Steel Duct	300.35	132.64
			For Flat Oval, Add	11.90	
			For Work In Restricted Working Space, Add	66.32	
23 31 13 13-1081	LF		56" x 62", 18 Gauge Galvanized Steel Duct	305.52	134.92
			For Flat Oval, Add	12.10	
			For Work In Restricted Working Space, Add	67.46	
23 31 13 13-1082	LF		56" x 64", 18 Gauge Galvanized Steel Duct	310.70	137.20
			For Flat Oval, Add	12.30	
			For Work In Restricted Working Space, Add	68.60	
23 31 13 13-1083	LF		58" x 58", 18 Gauge Galvanized Steel Duct	300.35	132.64
			For Flat Oval, Add	11.90	
			For Work In Restricted Working Space, Add	66.32	
23 31 13 13-1084	LF		58" x 60", 18 Gauge Galvanized Steel Duct	305.52	134.92
			For Flat Oval, Add	12.10	
			For Work In Restricted Working Space, Add	67.46	
23 31 13 13-1085	LF		58" x 62", 18 Gauge Galvanized Steel Duct	310.70	137.20
			For Flat Oval, Add	12.30	
			For Work In Restricted Working Space, Add	68.60	
23 31 13 13-1086	LF		58" x 64", 18 Gauge Galvanized Steel Duct	315.88	139.49
			For Flat Oval, Add	12.51	
			For Work In Restricted Working Space, Add	69.75	
23 31 13 13-1087	LF		58" x 66", 18 Gauge Galvanized Steel Duct	321.06	141.78
			For Flat Oval, Add	12.72	
			For Work In Restricted Working Space, Add	70.89	
23 31 13 13-1088	LF		60" x 60", 18 Gauge Galvanized Steel Duct	310.70	137.20
			For Flat Oval, Add	12.30	
			For Work In Restricted Working Space, Add	68.60	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1089	LF	60" x 62", 18 Gauge Galvanized Steel Duct	315.88	139.49
		For Flat Oval, Add	12.51	
		For Work In Restricted Working Space, Add	69.75	
23 31 13 13-1090	LF	60" x 64", 18 Gauge Galvanized Steel Duct	321.06	141.78
		For Flat Oval, Add	12.72	
		For Work In Restricted Working Space, Add	70.89	
23 31 13 13-1091	LF	60" x 66", 18 Gauge Galvanized Steel Duct	326.24	144.07
		For Flat Oval, Add	12.92	
		For Work In Restricted Working Space, Add	72.03	
23 31 13 13-1092	LF	60" x 68", 18 Gauge Galvanized Steel Duct	331.42	146.35
		For Flat Oval, Add	13.13	
		For Work In Restricted Working Space, Add	73.18	
23 31 13 13-1093	LF	62" x 62", 18 Gauge Galvanized Steel Duct	321.06	141.78
		For Flat Oval, Add	12.72	
		For Work In Restricted Working Space, Add	70.89	
23 31 13 13-1094	LF	62" x 64", 18 Gauge Galvanized Steel Duct	326.24	144.07
		For Flat Oval, Add	12.92	
		For Work In Restricted Working Space, Add	72.03	
23 31 13 13-1095	LF	62" x 66", 18 Gauge Galvanized Steel Duct	331.42	146.35
		For Flat Oval, Add	13.13	
		For Work In Restricted Working Space, Add	73.18	
23 31 13 13-1096	LF	62" x 68", 18 Gauge Galvanized Steel Duct	336.59	148.63
		For Flat Oval, Add	13.33	
		For Work In Restricted Working Space, Add	74.32	
23 31 13 13-1097	LF	62" x 70", 18 Gauge Galvanized Steel Duct	341.77	150.93
		For Flat Oval, Add	13.53	
		For Work In Restricted Working Space, Add	75.47	
23 31 13 13-1098	LF	64" x 64", 18 Gauge Galvanized Steel Duct	331.42	146.35
		For Flat Oval, Add	13.13	
		For Work In Restricted Working Space, Add	73.18	
23 31 13 13-1099	LF	64" x 66", 18 Gauge Galvanized Steel Duct	336.59	148.63
		For Flat Oval, Add	13.33	
		For Work In Restricted Working Space, Add	74.32	
23 31 13 13-1100	LF	64" x 68", 18 Gauge Galvanized Steel Duct	341.77	150.93
		For Flat Oval, Add	13.53	
		For Work In Restricted Working Space, Add	75.47	
23 31 13 13-1101	LF	64" x 70", 18 Gauge Galvanized Steel Duct	346.95	153.21
		For Flat Oval, Add	13.74	
		For Work In Restricted Working Space, Add	76.61	
23 31 13 13-1102	LF	66" x 66", 18 Gauge Galvanized Steel Duct	341.77	150.93
		For Flat Oval, Add	13.53	
		For Work In Restricted Working Space, Add	75.47	
23 31 13 13-1103	LF	66" x 68", 18 Gauge Galvanized Steel Duct	346.95	153.21
		For Flat Oval, Add	13.74	
		For Work In Restricted Working Space, Add	76.61	
23 31 13 13-1104	LF	66" x 70", 18 Gauge Galvanized Steel Duct	352.13	155.50
		For Flat Oval, Add	13.95	
		For Work In Restricted Working Space, Add	77.75	
23 31 13 13-1105	LF	66" x 72", 18 Gauge Galvanized Steel Duct	357.31	157.79
		For Flat Oval, Add	14.15	
		For Work In Restricted Working Space, Add	78.89	
23 31 13 13-1106	LF	68" x 68", 18 Gauge Galvanized Steel Duct	352.13	155.50
		For Flat Oval, Add	13.95	
		For Work In Restricted Working Space, Add	77.75	
23 31 13 13-1107	LF	68" x 70", 18 Gauge Galvanized Steel Duct	357.31	157.79
		For Flat Oval, Add	14.15	
		For Work In Restricted Working Space, Add	78.89	
23 31 13 13-1108	LF	68" x 72", 18 Gauge Galvanized Steel Duct	362.48	160.08
		For Flat Oval, Add	14.35	
		For Work In Restricted Working Space, Add	80.04	
23 31 13 13-1109	LF	68" x 74", 18 Gauge Galvanized Steel Duct	367.67	162.36
		For Flat Oval, Add	14.56	
		For Work In Restricted Working Space, Add	81.18	
23 31 13 13-1110	LF	70" x 70", 18 Gauge Galvanized Steel Duct	362.48	160.08
		For Flat Oval, Add	14.35	
		For Work In Restricted Working Space, Add	80.04	
23 31 13 13-1111	LF	70" x 72", 18 Gauge Galvanized Steel Duct	367.67	162.36
		For Flat Oval, Add	14.56	
		For Work In Restricted Working Space, Add	81.18	
23 31 13 13-1112	LF	70" x 74", 18 Gauge Galvanized Steel Duct	372.85	164.64
		For Flat Oval, Add	14.77	
		For Work In Restricted Working Space, Add	82.32	
23 31 13 13-1113	LF	70" x 76", 18 Gauge Galvanized Steel Duct	378.02	166.94
		For Flat Oval, Add	14.97	
		For Work In Restricted Working Space, Add	83.47	
23 31 13 13-1114	LF	70" x 78", 18 Gauge Galvanized Steel Duct	383.21	169.22
		For Flat Oval, Add	15.18	
		For Work In Restricted Working Space, Add	84.61	
23 31 13 13-1115	LF	70" x 80", 18 Gauge Galvanized Steel Duct	388.38	171.51
		For Flat Oval, Add	15.38	
		For Work In Restricted Working Space, Add	85.76	
23 31 13 13-1116	LF	70" x 82", 18 Gauge Galvanized Steel Duct	393.54	173.79
		For Flat Oval, Add	15.58	
		For Work In Restricted Working Space, Add	86.90	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1117 LF 70" x 84", 18 Gauge Galvanized Steel Duct	398.75	176.08
For Flat Oval, Add	15.79	
For Work In Restricted Working Space, Add	88.04	
23 31 13 13-1118 LF 70" x 86", 18 Gauge Galvanized Steel Duct	403.92	178.37
For Flat Oval, Add	16.00	
For Work In Restricted Working Space, Add	89.18	
23 31 13 13-1119 LF 72" x 72", 18 Gauge Galvanized Steel Duct	372.85	164.64
For Flat Oval, Add	14.77	
For Work In Restricted Working Space, Add	82.32	
23 31 13 13-1120 LF 72" x 74", 18 Gauge Galvanized Steel Duct	378.02	166.94
For Flat Oval, Add	14.97	
For Work In Restricted Working Space, Add	83.47	
23 31 13 13-1121 LF 72" x 76", 18 Gauge Galvanized Steel Duct	383.21	169.22
For Flat Oval, Add	15.18	
For Work In Restricted Working Space, Add	84.61	
23 31 13 13-1122 LF 72" x 78", 18 Gauge Galvanized Steel Duct	388.38	171.51
For Flat Oval, Add	15.38	
For Work In Restricted Working Space, Add	85.76	
23 31 13 13-1123 LF 72" x 80", 18 Gauge Galvanized Steel Duct	393.54	173.79
For Flat Oval, Add	15.58	
For Work In Restricted Working Space, Add	86.90	
23 31 13 13-1124 LF 72" x 82", 18 Gauge Galvanized Steel Duct	398.75	176.08
For Flat Oval, Add	15.79	
For Work In Restricted Working Space, Add	88.04	
23 31 13 13-1125 LF 72" x 84", 18 Gauge Galvanized Steel Duct	403.92	178.37
For Flat Oval, Add	16.00	
For Work In Restricted Working Space, Add	89.18	
23 31 13 13-1126 LF 72" x 86", 18 Gauge Galvanized Steel Duct	409.09	180.65
For Flat Oval, Add	16.20	
For Work In Restricted Working Space, Add	90.33	
23 31 13 13-1127 LF 74" x 74", 18 Gauge Galvanized Steel Duct	383.21	169.22
For Flat Oval, Add	15.18	
For Work In Restricted Working Space, Add	84.61	
23 31 13 13-1128 LF 74" x 76", 18 Gauge Galvanized Steel Duct	388.38	171.51
For Flat Oval, Add	15.38	
For Work In Restricted Working Space, Add	85.76	
23 31 13 13-1129 LF 74" x 78", 18 Gauge Galvanized Steel Duct	393.54	173.79
For Flat Oval, Add	15.58	
For Work In Restricted Working Space, Add	86.90	
23 31 13 13-1130 LF 74" x 80", 18 Gauge Galvanized Steel Duct	398.75	176.08
For Flat Oval, Add	15.79	
For Work In Restricted Working Space, Add	88.04	
23 31 13 13-1131 LF 74" x 82", 18 Gauge Galvanized Steel Duct	403.92	178.37
For Flat Oval, Add	16.00	
For Work In Restricted Working Space, Add	89.18	
23 31 13 13-1132 LF 74" x 84", 18 Gauge Galvanized Steel Duct	409.09	180.65
For Flat Oval, Add	16.20	
For Work In Restricted Working Space, Add	90.33	
23 31 13 13-1133 LF 74" x 86", 18 Gauge Galvanized Steel Duct	414.27	182.95
For Flat Oval, Add	16.40	
For Work In Restricted Working Space, Add	91.47	
23 31 13 13-1134 LF 76" x 76", 18 Gauge Galvanized Steel Duct	393.54	173.79
For Flat Oval, Add	15.58	
For Work In Restricted Working Space, Add	86.90	
23 31 13 13-1135 LF 76" x 78", 18 Gauge Galvanized Steel Duct	398.75	176.08
For Flat Oval, Add	15.79	
For Work In Restricted Working Space, Add	88.04	
23 31 13 13-1136 LF 76" x 80", 18 Gauge Galvanized Steel Duct	403.92	178.37
For Flat Oval, Add	16.00	
For Work In Restricted Working Space, Add	89.18	
23 31 13 13-1137 LF 76" x 82", 18 Gauge Galvanized Steel Duct	409.09	180.65
For Flat Oval, Add	16.20	
For Work In Restricted Working Space, Add	90.33	
23 31 13 13-1138 LF 76" x 84", 18 Gauge Galvanized Steel Duct	414.27	182.95
For Flat Oval, Add	16.40	
For Work In Restricted Working Space, Add	91.47	
23 31 13 13-1139 LF 76" x 86", 18 Gauge Galvanized Steel Duct	419.44	185.23
For Flat Oval, Add	16.61	
For Work In Restricted Working Space, Add	92.61	
23 31 13 13-1140 LF 78" x 78", 18 Gauge Galvanized Steel Duct	403.92	178.37
For Flat Oval, Add	16.00	
For Work In Restricted Working Space, Add	89.18	
23 31 13 13-1141 LF 78" x 80", 18 Gauge Galvanized Steel Duct	409.09	180.65
For Flat Oval, Add	16.20	
For Work In Restricted Working Space, Add	90.33	
23 31 13 13-1142 LF 78" x 82", 18 Gauge Galvanized Steel Duct	414.27	182.95
For Flat Oval, Add	16.40	
For Work In Restricted Working Space, Add	91.47	
23 31 13 13-1143 LF 78" x 84", 18 Gauge Galvanized Steel Duct	419.44	185.23
For Flat Oval, Add	16.61	
For Work In Restricted Working Space, Add	92.61	
23 31 13 13-1144 LF 78" x 86", 18 Gauge Galvanized Steel Duct	424.63	187.51
For Flat Oval, Add	16.82	
For Work In Restricted Working Space, Add	93.76	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1145 LF 80" x 80", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	414.27 16.40 91.47	182.95
23 31 13 13-1146 LF 80" x 82", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	419.44 16.61 92.61	185.23
23 31 13 13-1147 LF 80" x 84", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	424.63 16.82 93.76	187.51
23 31 13 13-1148 LF 80" x 86", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	429.81 17.02 94.90	189.80
23 31 13 13-1149 LF 82" x 82", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	424.63 16.82 93.76	187.51
23 31 13 13-1150 LF 82" x 84", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	429.81 17.02 94.90	189.80
23 31 13 13-1151 LF 82" x 86", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	434.99 17.23 96.05	192.09
23 31 13 13-1152 LF 84" x 84", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	434.99 17.23 96.05	192.09
23 31 13 13-1153 LF 84" x 86", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	440.15 17.43 97.19	194.38
23 31 13 13-1154 LF 86" x 86", 18 Gauge Galvanized Steel Duct For Flat Oval, Add For Work In Restricted Working Space, Add	445.33 17.63 98.33	196.66
23 31 13 13-1155 Aluminum Sheet Metal Duct Alloy 3003-H14 (23 31 13 13) Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.		
23 31 13 13-1156 LB Aluminum Sheet Metal Ductwork, Low Pressure, Alloy 3003-H14..... For Work In Restricted Working Space, Add For Up To 200, Add For >200 To 500, Add For >500 To 1,000, Add For >1,000 To 2,000, Add For >2,000 To 5,000, Add	17.69 4.92 5.70 3.51 2.57 1.45 0.69	2.89
23 31 13 13-1157 Stainless Steel Sheet Metal Duct Type 304 (23 31 13 13) Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.		
23 31 13 13-1158 LB Stainless Steel Sheet Metal Ductwork, Low Pressure, Type 304 For Type 316 Stainless Steel, Add For Welded Seams, Add For Work In Restricted Working Space, Add For Up To 200, Add For >200 To 500, Add For >500 To 1,000, Add For >1,000 To 2,000, Add For >2,000 To 5,000, Add	17.26 0.42 6.76 3.93 6.42 4.14 2.71 1.51 0.65	3.85
23 31 13 13-1159 LB Stainless Steel Sheet Metal Ductwork, Medium Pressure, Type 304 For Type 316 Stainless Steel, Add For Welded Seams, Add For Work In Restricted Working Space, Add For Up To 200, Add For >200 To 500, Add For >500 To 1,000, Add For >1,000 To 2,000, Add For >2,000 To 5,000, Add	19.77 0.48 7.73 4.50 7.37 4.75 3.10 1.73 0.74	4.82
23 31 13 13-1160 LB Stainless Steel Sheet Metal Ductwork, High Pressure, Type 304..... For Type 316 Stainless Steel, Add For Welded Seams, Add For Work In Restricted Working Space, Add For Up To 200, Add For >200 To 500, Add For >500 To 1,000, Add For >1,000 To 2,000, Add For >2,000 To 5,000, Add	24.12 0.58 9.45 5.50 8.98 5.79 3.78 2.10 0.91	5.79
23 31 13 13-1161 Rework Sheet Metal Ductwork (23 31 13 13) Note: Includes removal of existing ductwork and reinstallation of ductwork. Excludes new ductwork.		
23 31 13 13-1162 LF Up To 1 SF Cross Section, Rework Existing Ductwork.....	28.93	
23 31 13 13-1163 LF >1 To 2 SF Cross Section, Rework Existing Ductwork	56.41	
23 31 13 13-1164 LF >2 To 4 SF Cross Section, Rework Existing Ductwork	74.54	
23 31 13 13-1165 LF >4 To 6 SF Cross Section, Rework Existing Ductwork	93.33	
23 31 13 13-1166 LF >6 To 8 SF Cross Section, Rework Existing Ductwork	130.17	
23 31 13 13-1167 LF >8 To 10 SF Cross Section, Rework Existing Ductwork	151.86	
23 31 13 13-1168 LF >10 To 12 SF Cross Section, Rework Existing Ductwork	173.57	
23 31 13 13-1169 LF >12 To 14 SF Cross Section, Rework Existing Ductwork	195.25	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 31 13 16 Round and Flat-Oval Spiral Ducts (23 31 13)

23 31 13 16-0001 Factory Fabricated Field Installed Low Pressure Round Duct (23 31 13 16)

Note: Based on 26 gauge.

23 31 13 16-0002 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Ducts (23 31 13 16-0001)

Note: Includes straps and supports.

23 31 13 16-0003	LF 4", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	6.64	2.53
	For 28 Gauge, Deduct	-0.20	
	For 24 Gauge, Add	0.20	
	For 22 Gauge, Add	0.40	
	For 20 Gauge, Add	0.60	
	For 18 Gauge, Add	0.80	
	For 16 Gauge, Add	0.99	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.08	
	For Acid Resistant Asphaltum Coating, Add	3.76	
	For Work In Restricted Working Space, Add	1.55	
23 31 13 16-0004	LF 5", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	7.63	2.87
	For 28 Gauge, Deduct	-0.26	
	For 24 Gauge, Add	0.26	
	For 22 Gauge, Add	0.52	
	For 20 Gauge, Add	0.77	
	For 18 Gauge, Add	1.03	
	For 16 Gauge, Add	1.26	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.38	
	For Acid Resistant Asphaltum Coating, Add	4.20	
	For Work In Restricted Working Space, Add	1.73	
23 31 13 16-0005	LF 6", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	8.61	3.46
	For 28 Gauge, Deduct	-0.30	
	For 24 Gauge, Add	0.30	
	For 22 Gauge, Add	0.59	
	For 20 Gauge, Add	0.89	
	For 18 Gauge, Add	1.18	
	For 16 Gauge, Add	1.44	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.58	
	For Acid Resistant Asphaltum Coating, Add	4.64	
	For Work In Restricted Working Space, Add	1.94	
23 31 13 16-0006	LF 7", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	9.92	4.03
	For 28 Gauge, Deduct	-0.35	
	For 24 Gauge, Add	0.35	
	For 22 Gauge, Add	0.69	
	For 20 Gauge, Add	1.04	
	For 18 Gauge, Add	1.39	
	For 16 Gauge, Add	1.70	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.86	
	For Acid Resistant Asphaltum Coating, Add	5.08	
	For Work In Restricted Working Space, Add	2.22	
23 31 13 16-0007	LF 8", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	11.44	4.60
	For 28 Gauge, Deduct	-0.39	
	For 24 Gauge, Add	0.39	
	For 22 Gauge, Add	0.77	
	For 20 Gauge, Add	1.16	
	For 18 Gauge, Add	1.55	
	For 16 Gauge, Add	1.90	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.08	
	For Acid Resistant Asphaltum Coating, Add	5.52	
	For Work In Restricted Working Space, Add	2.59	
23 31 13 16-0008	LF 10", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	13.82	5.76
	For 28 Gauge, Deduct	-0.48	
	For 24 Gauge, Add	0.48	
	For 22 Gauge, Add	0.95	
	For 20 Gauge, Add	1.43	
	For 18 Gauge, Add	1.90	
	For 16 Gauge, Add	2.34	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.56	
	For Acid Resistant Asphaltum Coating, Add	6.40	
	For Work In Restricted Working Space, Add	3.11	
23 31 13 16-0009	LF 12", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	17.20	7.71
	For 28 Gauge, Deduct	-0.59	
	For 24 Gauge, Add	0.59	
	For 22 Gauge, Add	1.17	
	For 20 Gauge, Add	1.76	
	For 18 Gauge, Add	2.34	
	For 16 Gauge, Add	2.87	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.15	
	For Acid Resistant Asphaltum Coating, Add	6.90	
	For Work In Restricted Working Space, Add	3.89	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0010	LF		14", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	21.13	11.51
			For 28 Gauge, Deduct	-0.68	
			For 24 Gauge, Add	0.68	
			For 22 Gauge, Add	1.36	
			For 20 Gauge, Add	2.05	
			For 18 Gauge, Add	2.72	
			For 16 Gauge, Add	3.33	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.66	
			For Acid Resistant Asphaltum Coating, Add	7.26	
			For Work In Restricted Working Space, Add	4.86	
23 31 13 16-0011	LF		16", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Duct	28.91	15.43
			For 28 Gauge, Deduct	-1.01	
			For 24 Gauge, Add	1.01	
			For 22 Gauge, Add	2.02	
			For 20 Gauge, Add	3.03	
			For 18 Gauge, Add	4.03	
			For 16 Gauge, Add	4.94	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.42	
			For Acid Resistant Asphaltum Coating, Add	7.58	
			For Work In Restricted Working Space, Add	6.48	
23 31 13 16-0012			26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbows (23 31 13 16-0001) Note: Up to 90 degree.		
23 31 13 16-0013	EA		4", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow.....	37.63	15.37
			For 28 Gauge, Deduct	-0.96	
			For 24 Gauge, Add	0.95	
			For 22 Gauge, Add	1.90	
			For 20 Gauge, Add	2.86	
			For 18 Gauge, Add	3.80	
			For 16 Gauge, Add	4.66	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.11	
			For Work In Restricted Working Space, Add	9.22	
23 31 13 16-0014	EA		5", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow.....	42.97	17.73
			For 28 Gauge, Deduct	-1.04	
			For 24 Gauge, Add	1.04	
			For 22 Gauge, Add	2.07	
			For 20 Gauge, Add	3.11	
			For 18 Gauge, Add	4.13	
			For 16 Gauge, Add	5.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.56	
			For Work In Restricted Working Space, Add	10.64	
23 31 13 16-0015	EA		6", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow.....	50.34	20.95
			For 28 Gauge, Deduct	-1.17	
			For 24 Gauge, Add	1.16	
			For 22 Gauge, Add	2.33	
			For 20 Gauge, Add	3.49	
			For 18 Gauge, Add	4.64	
			For 16 Gauge, Add	5.70	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.25	
			For Work In Restricted Working Space, Add	12.57	
23 31 13 16-0016	EA		7", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow.....	64.24	26.93
			For 28 Gauge, Deduct	-1.44	
			For 24 Gauge, Add	1.43	
			For 22 Gauge, Add	2.86	
			For 20 Gauge, Add	4.29	
			For 18 Gauge, Add	5.70	
			For 16 Gauge, Add	7.00	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.67	
			For Work In Restricted Working Space, Add	16.16	
23 31 13 16-0017	EA		8", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow.....	76.83	32.80
			For 28 Gauge, Deduct	-1.55	
			For 24 Gauge, Add	1.55	
			For 22 Gauge, Add	3.09	
			For 20 Gauge, Add	4.64	
			For 18 Gauge, Add	6.17	
			For 16 Gauge, Add	7.57	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.30	
			For Work In Restricted Working Space, Add	19.69	
23 31 13 16-0018	EA		10", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow.....	117.24	51.23
			For 28 Gauge, Deduct	-2.05	
			For 24 Gauge, Add	2.04	
			For 22 Gauge, Add	4.07	
			For 20 Gauge, Add	6.12	
			For 18 Gauge, Add	8.13	
			For 16 Gauge, Add	9.98	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.94	
			For Work In Restricted Working Space, Add	30.74	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 31 13 16-0019	EA	12", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow	161.63		70.79
		For 28 Gauge, Deduct	-2.78		
		For 24 Gauge, Add	2.77		
		For 22 Gauge, Add	5.52		
		For 20 Gauge, Add	8.30		
		For 18 Gauge, Add	11.02		
		For 16 Gauge, Add	13.53		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.83		
		For Work In Restricted Working Space, Add	42.48		
23 31 13 16-0020	EA	14", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow	198.20		83.75
		For 28 Gauge, Deduct	-4.25		
		For 24 Gauge, Add	4.24		
		For 22 Gauge, Add	8.46		
		For 20 Gauge, Add	12.72		
		For 18 Gauge, Add	16.90		
		For 16 Gauge, Add	20.74		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.73		
		For Work In Restricted Working Space, Add	50.24		
23 31 13 16-0021	EA	16", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Adjustable Elbow	228.20		92.09
		For 28 Gauge, Deduct	-6.10		
		For 24 Gauge, Add	6.07		
		For 22 Gauge, Add	12.13		
		For 20 Gauge, Add	18.22		
		For 18 Gauge, Add	24.21		
		For 16 Gauge, Add	29.71		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	32.57		
		For Work In Restricted Working Space, Add	55.25		
23 31 13 16-0022 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbows (23 31 13 16-0001)					
23 31 13 16-0023	EA	4", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow	31.70		10.36
		For 28 Gauge, Deduct	-0.80		
		For 24 Gauge, Add	0.80		
		For 22 Gauge, Add	1.60		
		For 20 Gauge, Add	2.40		
		For 18 Gauge, Add	3.19		
		For 16 Gauge, Add	3.92		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.29		
		For Work In Restricted Working Space, Add	7.77		
23 31 13 16-0024	EA	5", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow	36.21		11.86
		For 28 Gauge, Deduct	-0.92		
		For 24 Gauge, Add	0.91		
		For 22 Gauge, Add	1.82		
		For 20 Gauge, Add	2.74		
		For 18 Gauge, Add	3.64		
		For 16 Gauge, Add	4.46		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.89		
		For Work In Restricted Working Space, Add	8.88		
23 31 13 16-0025	EA	6", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow	42.06		13.81
		For 28 Gauge, Deduct	-1.04		
		For 24 Gauge, Add	1.04		
		For 22 Gauge, Add	2.07		
		For 20 Gauge, Add	3.12		
		For 18 Gauge, Add	4.14		
		For 16 Gauge, Add	5.08		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.57		
		For Work In Restricted Working Space, Add	10.36		
23 31 13 16-0026	EA	7", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow	49.41		16.57
		For 28 Gauge, Deduct	-1.10		
		For 24 Gauge, Add	1.10		
		For 22 Gauge, Add	2.20		
		For 20 Gauge, Add	3.30		
		For 18 Gauge, Add	4.38		
		For 16 Gauge, Add	5.38		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.90		
		For Work In Restricted Working Space, Add	12.43		
23 31 13 16-0027	EA	8", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow	61.06		20.72
		For 28 Gauge, Deduct	-1.28		
		For 24 Gauge, Add	1.28		
		For 22 Gauge, Add	2.55		
		For 20 Gauge, Add	3.83		
		For 18 Gauge, Add	5.09		
		For 16 Gauge, Add	6.25		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.85		
		For Work In Restricted Working Space, Add	15.54		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
23 31 13 16-0028	EA	10", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow.....	82.28		27.63
		For 28 Gauge, Deduct	-1.83		
		For 24 Gauge, Add	1.82		
		For 22 Gauge, Add	3.64		
		For 20 Gauge, Add	5.47		
		For 18 Gauge, Add	7.27		
		For 16 Gauge, Add	8.92		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.78		
		For Work In Restricted Working Space, Add	20.72		
23 31 13 16-0029	EA	12", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow.....	121.10		41.44
		For 28 Gauge, Deduct	-2.42		
		For 24 Gauge, Add	2.42		
		For 22 Gauge, Add	4.82		
		For 20 Gauge, Add	7.25		
		For 18 Gauge, Add	9.63		
		For 16 Gauge, Add	11.81		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	12.95		
		For Work In Restricted Working Space, Add	31.08		
23 31 13 16-0030	EA	14", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow.....	165.13		52.95
		For 28 Gauge, Deduct	-4.54		
		For 24 Gauge, Add	4.52		
		For 22 Gauge, Add	9.02		
		For 20 Gauge, Add	13.56		
		For 18 Gauge, Add	18.01		
		For 16 Gauge, Add	22.11		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.24		
		For Work In Restricted Working Space, Add	39.71		
23 31 13 16-0031	EA	16", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 90 Degree Elbow.....	206.99		66.76
		For 28 Gauge, Deduct	-5.55		
		For 24 Gauge, Add	5.53		
		For 22 Gauge, Add	11.04		
		For 20 Gauge, Add	16.59		
		For 18 Gauge, Add	22.04		
		For 16 Gauge, Add	27.05		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.66		
		For Work In Restricted Working Space, Add	50.07		
23 31 13 16-0032		26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbows (23 31 13 16-0001)			
23 31 13 16-0033	EA	4", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	29.54		10.36
		For 28 Gauge, Deduct	-0.50		
		For 24 Gauge, Add	0.50		
		For 22 Gauge, Add	1.00		
		For 20 Gauge, Add	1.51		
		For 18 Gauge, Add	2.00		
		For 16 Gauge, Add	2.46		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.69		
		For Work In Restricted Working Space, Add	7.77		
23 31 13 16-0034	EA	5", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	34.28		11.86
		For 28 Gauge, Deduct	-0.65		
		For 24 Gauge, Add	0.65		
		For 22 Gauge, Add	1.29		
		For 20 Gauge, Add	1.94		
		For 18 Gauge, Add	2.57		
		For 16 Gauge, Add	3.16		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.46		
		For Work In Restricted Working Space, Add	8.88		
23 31 13 16-0035	EA	6", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	39.64		13.81
		For 28 Gauge, Deduct	-0.71		
		For 24 Gauge, Add	0.71		
		For 22 Gauge, Add	1.41		
		For 20 Gauge, Add	2.12		
		For 18 Gauge, Add	2.81		
		For 16 Gauge, Add	3.45		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.78		
		For Work In Restricted Working Space, Add	10.36		
23 31 13 16-0036	EA	7", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	47.36		16.57
		For 28 Gauge, Deduct	-0.82		
		For 24 Gauge, Add	0.82		
		For 22 Gauge, Add	1.63		
		For 20 Gauge, Add	2.45		
		For 18 Gauge, Add	3.26		
		For 16 Gauge, Add	4.00		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.38		
		For Work In Restricted Working Space, Add	12.43		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 31 13 16-0037	EA	8", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	58.53		20.72
		For 28 Gauge, Deduct	-0.93		
		For 24 Gauge, Add	0.93		
		For 22 Gauge, Add	1.85		
		For 20 Gauge, Add	2.79		
		For 18 Gauge, Add	3.70		
		For 16 Gauge, Add	4.54		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.98		
		For Work In Restricted Working Space, Add	15.54		
23 31 13 16-0038	EA	10", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	79.33		27.63
		For 28 Gauge, Deduct	-1.42		
		For 24 Gauge, Add	1.42		
		For 22 Gauge, Add	2.83		
		For 20 Gauge, Add	4.25		
		For 18 Gauge, Add	5.65		
		For 16 Gauge, Add	6.93		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.60		
		For Work In Restricted Working Space, Add	20.72		
23 31 13 16-0039	EA	12", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	116.82		41.44
		For 28 Gauge, Deduct	-1.83		
		For 24 Gauge, Add	1.82		
		For 22 Gauge, Add	3.64		
		For 20 Gauge, Add	5.47		
		For 18 Gauge, Add	7.27		
		For 16 Gauge, Add	8.92		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.78		
		For Work In Restricted Working Space, Add	31.08		
23 31 13 16-0040	EA	14", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	155.27		52.95
		For 28 Gauge, Deduct	-3.17		
		For 24 Gauge, Add	3.16		
		For 22 Gauge, Add	6.31		
		For 20 Gauge, Add	9.48		
		For 18 Gauge, Add	12.59		
		For 16 Gauge, Add	15.45		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.94		
		For Work In Restricted Working Space, Add	39.71		
23 31 13 16-0041	EA	16", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round 45 Degree Elbow.....	204.44		66.76
		For 28 Gauge, Deduct	-5.20		
		For 24 Gauge, Add	5.18		
		For 22 Gauge, Add	10.34		
		For 20 Gauge, Add	15.54		
		For 18 Gauge, Add	20.64		
		For 16 Gauge, Add	25.33		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	27.77		
		For Work In Restricted Working Space, Add	50.07		
23 31 13 16-0042		26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tees (23 31 13 16-0001)			
23 31 13 16-0043	EA	4", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	46.96		15.54
		For 28 Gauge, Deduct	-1.12		
		For 24 Gauge, Add	1.12		
		For 22 Gauge, Add	2.24		
		For 20 Gauge, Add	3.36		
		For 18 Gauge, Add	4.47		
		For 16 Gauge, Add	5.48		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.01		
		For Work In Restricted Working Space, Add	11.65		
23 31 13 16-0044	EA	5", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	55.18		17.73
		For 28 Gauge, Deduct	-1.49		
		For 24 Gauge, Add	1.49		
		For 22 Gauge, Add	2.97		
		For 20 Gauge, Add	4.46		
		For 18 Gauge, Add	5.93		
		For 16 Gauge, Add	7.28		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.98		
		For Work In Restricted Working Space, Add	13.32		
23 31 13 16-0045	EA	6", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	63.50		20.72
		For 28 Gauge, Deduct	-1.62		
		For 24 Gauge, Add	1.61		
		For 22 Gauge, Add	3.22		
		For 20 Gauge, Add	4.84		
		For 18 Gauge, Add	6.44		
		For 16 Gauge, Add	7.90		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.66		
		For Work In Restricted Working Space, Add	15.54		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0046 EA 7", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	75.63	24.86
For 28 Gauge, Deduct	-1.87	
For 24 Gauge, Add	1.86	
For 22 Gauge, Add	3.71	
For 20 Gauge, Add	5.58	
For 18 Gauge, Add	7.41	
For 16 Gauge, Add	9.09	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.97	
For Work In Restricted Working Space, Add	18.65	
23 31 13 16-0047 EA 8", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	99.48	31.08
For 28 Gauge, Deduct	-3.02	
For 24 Gauge, Add	3.00	
For 22 Gauge, Add	6.00	
For 20 Gauge, Add	9.01	
For 18 Gauge, Add	11.97	
For 16 Gauge, Add	14.69	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.11	
For Work In Restricted Working Space, Add	23.31	
23 31 13 16-0048 EA 10", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	131.37	41.44
For 28 Gauge, Deduct	-3.85	
For 24 Gauge, Add	3.83	
For 22 Gauge, Add	7.65	
For 20 Gauge, Add	11.50	
For 18 Gauge, Add	15.27	
For 16 Gauge, Add	18.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.55	
For Work In Restricted Working Space, Add	31.08	
23 31 13 16-0049 EA 12", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	183.14	62.16
For 28 Gauge, Deduct	-3.85	
For 24 Gauge, Add	3.83	
For 22 Gauge, Add	7.65	
For 20 Gauge, Add	11.50	
For 18 Gauge, Add	15.27	
For 16 Gauge, Add	18.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.55	
For Work In Restricted Working Space, Add	46.61	
23 31 13 16-0050 EA 14", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	251.36	79.19
For 28 Gauge, Deduct	-7.33	
For 24 Gauge, Add	7.30	
For 22 Gauge, Add	14.57	
For 20 Gauge, Add	21.90	
For 18 Gauge, Add	29.09	
For 16 Gauge, Add	35.70	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.14	
For Work In Restricted Working Space, Add	59.54	
23 31 13 16-0051 EA 16", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Tee.....	324.50	100.38
For 28 Gauge, Deduct	-10.28	
For 24 Gauge, Add	10.25	
For 22 Gauge, Add	20.46	
For 20 Gauge, Add	30.74	
For 18 Gauge, Add	40.84	
For 16 Gauge, Add	50.12	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	54.95	
For Work In Restricted Working Space, Add	75.08	
23 31 13 16-0052 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connectors (23 31 13 16-0001)		
23 31 13 16-0053 EA 4", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	21.15	
For Work In Restricted Working Space, Add	5.53	
23 31 13 16-0054 EA 5", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	22.29	
For Work In Restricted Working Space, Add	5.81	
23 31 13 16-0055 EA 6", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	23.87	
For Work In Restricted Working Space, Add	6.22	
23 31 13 16-0056 EA 7", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	25.47	
For Work In Restricted Working Space, Add	6.56	
23 31 13 16-0057 EA 8", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	27.67	
For Work In Restricted Working Space, Add	7.08	
23 31 13 16-0058 EA 10", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	32.77	
For Work In Restricted Working Space, Add	7.91	
23 31 13 16-0059 EA 12", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	44.56	
For Work In Restricted Working Space, Add	11.05	
23 31 13 16-0060 EA 14", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	50.91	
For Work In Restricted Working Space, Add	12.58	
23 31 13 16-0061 EA 16", 26 Gauge, Factory Fabricated, Field Installed, Low Pressure, Galvanized Sheet Metal Round Connector	56.01	
For Work In Restricted Working Space, Add	13.78	
23 31 13 16-0062 26 Gauge, Slip Joint, Galvanized, Spiral Duct And Fittings (23 31 13 16)		
23 31 13 16-0063 26 Gauge, Slip Joint, Galvanized, Spiral Duct (23 31 13 16-0062)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0064 LF 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	7.17	1.06
For 24 Gauge, Add	0.30	
For 22 Gauge, Add	0.69	
For 20 Gauge, Add	1.12	
For 18 Gauge, Add	1.71	
For 16 Gauge, Add	2.09	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.10	
For Work In Restricted Working Space, Add	1.70	
23 31 13 16-0065 LF 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	8.97	2.12
For 24 Gauge, Add	0.43	
For 22 Gauge, Add	0.99	
For 20 Gauge, Add	1.61	
For 18 Gauge, Add	2.47	
For 16 Gauge, Add	3.01	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.59	
For Work In Restricted Working Space, Add	2.05	
23 31 13 16-0066 LF 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	11.29	2.12
For 24 Gauge, Add	0.57	
For 22 Gauge, Add	1.31	
For 20 Gauge, Add	2.13	
For 18 Gauge, Add	3.27	
For 16 Gauge, Add	3.98	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.10	
For Work In Restricted Working Space, Add	2.54	
23 31 13 16-0067 LF 10" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	13.65	2.12
For 24 Gauge, Add	0.70	
For 22 Gauge, Add	1.61	
For 20 Gauge, Add	2.63	
For 18 Gauge, Add	4.03	
For 16 Gauge, Add	4.90	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.59	
For Work In Restricted Working Space, Add	3.05	
23 31 13 16-0068 LF 12" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	17.02	3.18
For 24 Gauge, Add	0.86	
For 22 Gauge, Add	1.98	
For 20 Gauge, Add	3.23	
For 18 Gauge, Add	4.95	
For 16 Gauge, Add	6.02	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.18	
For Work In Restricted Working Space, Add	3.82	
23 31 13 16-0069 LF 14" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	20.89	3.18
For 24 Gauge, Add	1.00	
For 22 Gauge, Add	2.30	
For 20 Gauge, Add	3.74	
For 18 Gauge, Add	5.74	
For 16 Gauge, Add	6.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.69	
For Work In Restricted Working Space, Add	4.77	
23 31 13 16-0070 LF 16" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	28.41	3.18
For 24 Gauge, Add	1.45	
For 22 Gauge, Add	3.33	
For 20 Gauge, Add	5.43	
For 18 Gauge, Add	8.33	
For 16 Gauge, Add	10.14	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.36	
For Work In Restricted Working Space, Add	6.35	
23 31 13 16-0071 LF 18" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	32.70	4.24
For 24 Gauge, Add	1.61	
For 22 Gauge, Add	3.69	
For 20 Gauge, Add	6.02	
For 18 Gauge, Add	9.23	
For 16 Gauge, Add	11.24	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.94	
For Work In Restricted Working Space, Add	7.40	
23 31 13 16-0072 LF 20" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	36.99	4.24
For 24 Gauge, Add	1.79	
For 22 Gauge, Add	4.12	
For 20 Gauge, Add	6.72	
For 18 Gauge, Add	10.30	
For 16 Gauge, Add	12.54	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.63	
For Work In Restricted Working Space, Add	8.41	
23 31 13 16-0073 LF 22" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	41.46	5.30
For 24 Gauge, Add	1.98	
For 22 Gauge, Add	4.55	
For 20 Gauge, Add	7.43	
For 18 Gauge, Add	11.39	
For 16 Gauge, Add	13.86	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.33	
For Work In Restricted Working Space, Add	9.47	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0074	LF		24" 26 Gauge, Slip Joint, Galvanized, Spiral Duct.....	46.08	6.36
			For 24 Gauge, Add	2.15	
			For 22 Gauge, Add	4.95	
			For 20 Gauge, Add	8.07	
			For 18 Gauge, Add	12.37	
			For 16 Gauge, Add	15.06	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.96	
			For Work In Restricted Working Space, Add	10.60	
23 31 13 16-0075 26 Gauge, Slip Joint, Galvanized, Spiral 90 Degree Elbows (23 31 13 16-0062)					
23 31 13 16-0076	EA		4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	70.47	14.84
			For 24 Gauge, Add	2.64	
			For 22 Gauge, Add	6.06	
			For 20 Gauge, Add	9.89	
			For 18 Gauge, Add	15.16	
			For 16 Gauge, Add	18.45	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.75	
			For Work In Restricted Working Space, Add	17.19	
23 31 13 16-0077	EA		6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	103.51	21.19
			For 24 Gauge, Add	3.74	
			For 22 Gauge, Add	8.61	
			For 20 Gauge, Add	14.04	
			For 18 Gauge, Add	21.53	
			For 16 Gauge, Add	26.21	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.85	
			For Work In Restricted Working Space, Add	25.44	
23 31 13 16-0078	EA		8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	147.26	27.55
			For 24 Gauge, Add	7.14	
			For 22 Gauge, Add	16.42	
			For 20 Gauge, Add	26.78	
			For 18 Gauge, Add	41.06	
			For 16 Gauge, Add	49.98	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.42	
			For Work In Restricted Working Space, Add	33.47	
23 31 13 16-0079	EA		10" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	183.33	34.97
			For 24 Gauge, Add	8.41	
			For 22 Gauge, Add	19.33	
			For 20 Gauge, Add	31.52	
			For 18 Gauge, Add	48.33	
			For 16 Gauge, Add	58.84	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.10	
			For Work In Restricted Working Space, Add	42.39	
23 31 13 16-0080	EA		12" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	225.99	44.51
			For 24 Gauge, Add	9.87	
			For 22 Gauge, Add	22.70	
			For 20 Gauge, Add	37.01	
			For 18 Gauge, Add	56.75	
			For 16 Gauge, Add	69.09	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	36.52	
			For Work In Restricted Working Space, Add	52.99	
23 31 13 16-0081	EA		14" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	247.63	48.75
			For 24 Gauge, Add	10.99	
			For 22 Gauge, Add	25.27	
			For 20 Gauge, Add	41.21	
			For 18 Gauge, Add	63.18	
			For 16 Gauge, Add	76.92	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.66	
			For Work In Restricted Working Space, Add	57.81	
23 31 13 16-0082	EA		16" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	292.21	57.23
			For 24 Gauge, Add	12.86	
			For 22 Gauge, Add	29.57	
			For 20 Gauge, Add	48.22	
			For 18 Gauge, Add	73.93	
			For 16 Gauge, Add	90.01	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	47.57	
			For Work In Restricted Working Space, Add	68.38	
23 31 13 16-0083	EA		18" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	356.59	71.00
			For 24 Gauge, Add	14.80	
			For 22 Gauge, Add	34.03	
			For 20 Gauge, Add	55.49	
			For 18 Gauge, Add	85.08	
			For 16 Gauge, Add	103.57	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	54.75	
			For Work In Restricted Working Space, Add	84.78	
23 31 13 16-0084	EA		20" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	429.21	85.84
			For 24 Gauge, Add	17.47	
			For 22 Gauge, Add	40.17	
			For 20 Gauge, Add	65.50	
			For 18 Gauge, Add	100.43	
			For 16 Gauge, Add	122.26	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	64.62	
			For Work In Restricted Working Space, Add	102.56	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0085 EA 22" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	499.04	99.62
For 24 Gauge, Add	19.82	
For 22 Gauge, Add	45.59	
For 20 Gauge, Add	74.33	
For 18 Gauge, Add	113.98	
For 16 Gauge, Add	138.75	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	73.34	
For Work In Restricted Working Space, Add	119.98	
23 31 13 16-0086 EA 24" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	573.29	113.40
For 24 Gauge, Add	24.46	
For 22 Gauge, Add	56.26	
For 20 Gauge, Add	91.73	
For 18 Gauge, Add	140.66	
For 16 Gauge, Add	171.23	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	90.51	
For Work In Restricted Working Space, Add	135.29	
23 31 13 16-0087 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows (23 31 13 16-0062)		
23 31 13 16-0088 EA 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	71.09	14.84
For 24 Gauge, Add	2.76	
For 22 Gauge, Add	6.35	
For 20 Gauge, Add	10.35	
For 18 Gauge, Add	15.87	
For 16 Gauge, Add	19.32	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.21	
For Work In Restricted Working Space, Add	17.19	
23 31 13 16-0089 EA 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	100.30	21.19
For 24 Gauge, Add	3.10	
For 22 Gauge, Add	7.13	
For 20 Gauge, Add	11.63	
For 18 Gauge, Add	17.84	
For 16 Gauge, Add	21.71	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.48	
For Work In Restricted Working Space, Add	25.44	
23 31 13 16-0090 EA 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	132.35	27.55
For 24 Gauge, Add	4.16	
For 22 Gauge, Add	9.56	
For 20 Gauge, Add	15.59	
For 18 Gauge, Add	23.91	
For 16 Gauge, Add	29.11	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.38	
For Work In Restricted Working Space, Add	33.47	
23 31 13 16-0091 EA 10" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	167.29	34.97
For 24 Gauge, Add	5.20	
For 22 Gauge, Add	11.96	
For 20 Gauge, Add	19.49	
For 18 Gauge, Add	29.89	
For 16 Gauge, Add	36.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.23	
For Work In Restricted Working Space, Add	42.39	
23 31 13 16-0092 EA 12" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	206.85	44.51
For 24 Gauge, Add	6.04	
For 22 Gauge, Add	13.90	
For 20 Gauge, Add	22.66	
For 18 Gauge, Add	34.74	
For 16 Gauge, Add	42.29	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.36	
For Work In Restricted Working Space, Add	52.99	
23 31 13 16-0093 EA 14" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	226.27	48.75
For 24 Gauge, Add	6.72	
For 22 Gauge, Add	15.45	
For 20 Gauge, Add	25.19	
For 18 Gauge, Add	38.62	
For 16 Gauge, Add	47.01	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.85	
For Work In Restricted Working Space, Add	57.81	
23 31 13 16-0094 EA 16" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	282.97	57.23
For 24 Gauge, Add	11.01	
For 22 Gauge, Add	25.32	
For 20 Gauge, Add	41.29	
For 18 Gauge, Add	63.31	
For 16 Gauge, Add	77.07	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.74	
For Work In Restricted Working Space, Add	68.38	
23 31 13 16-0095 EA 18" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	350.04	71.00
For 24 Gauge, Add	13.49	
For 22 Gauge, Add	31.02	
For 20 Gauge, Add	50.57	
For 18 Gauge, Add	77.54	
For 16 Gauge, Add	94.40	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	49.90	
For Work In Restricted Working Space, Add	84.78	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
HVAC Ducts And Casings		23 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0096	EA		20" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	427.20	85.84
			For 24 Gauge, Add	17.06	
			For 22 Gauge, Add	39.25	
			For 20 Gauge, Add	63.99	
			For 18 Gauge, Add	98.12	
			For 16 Gauge, Add	119.45	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	63.14	
			For Work In Restricted Working Space, Add	102.56	
23 31 13 16-0097	EA		22" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	476.31	99.62
			For 24 Gauge, Add	15.28	
			For 22 Gauge, Add	35.13	
			For 20 Gauge, Add	57.29	
			For 18 Gauge, Add	87.84	
			For 16 Gauge, Add	106.93	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	56.52	
			For Work In Restricted Working Space, Add	119.98	
23 31 13 16-0098	EA		24" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	565.20	113.40
			For 24 Gauge, Add	22.84	
			For 22 Gauge, Add	52.54	
			For 20 Gauge, Add	85.67	
			For 18 Gauge, Add	131.35	
			For 16 Gauge, Add	159.91	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	84.52	
			For Work In Restricted Working Space, Add	135.29	
23 31 13 16-0099 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals					
(23 31 13 16-0092)					
23 31 13 16-0100	EA		6" x 6" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	141.23	27.55
			For 24 Gauge, Add	5.93	
			For 22 Gauge, Add	13.65	
			For 20 Gauge, Add	22.25	
			For 18 Gauge, Add	34.12	
			For 16 Gauge, Add	41.54	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.96	
			For Work In Restricted Working Space, Add	33.47	
23 31 13 16-0101	EA		8" x 8" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	207.74	44.51
			For 24 Gauge, Add	6.22	
			For 22 Gauge, Add	14.31	
			For 20 Gauge, Add	23.33	
			For 18 Gauge, Add	35.77	
			For 16 Gauge, Add	43.54	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	23.01	
			For Work In Restricted Working Space, Add	52.99	
23 31 13 16-0102	EA		10" x 10" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	262.07	57.23
			For 24 Gauge, Add	6.83	
			For 22 Gauge, Add	15.71	
			For 20 Gauge, Add	25.61	
			For 18 Gauge, Add	39.27	
			For 16 Gauge, Add	47.81	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.27	
			For Work In Restricted Working Space, Add	68.38	
23 31 13 16-0103	EA		12" x 12" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	318.28	71.00
			For 24 Gauge, Add	7.13	
			For 22 Gauge, Add	16.41	
			For 20 Gauge, Add	26.75	
			For 18 Gauge, Add	41.02	
			For 16 Gauge, Add	49.94	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.40	
			For Work In Restricted Working Space, Add	84.78	
23 31 13 16-0104	EA		14" x 14" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	378.72	85.84
			For 24 Gauge, Add	7.37	
			For 22 Gauge, Add	16.95	
			For 20 Gauge, Add	27.63	
			For 18 Gauge, Add	42.37	
			For 16 Gauge, Add	51.58	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	27.26	
			For Work In Restricted Working Space, Add	102.56	
23 31 13 16-0105	EA		16" x 16" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	440.00	99.62
			For 24 Gauge, Add	8.01	
			For 22 Gauge, Add	18.43	
			For 20 Gauge, Add	30.05	
			For 18 Gauge, Add	46.08	
			For 16 Gauge, Add	56.10	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.65	
			For Work In Restricted Working Space, Add	119.98	
23 31 13 16-0106	EA		18" x 18" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	492.66	113.40
			For 24 Gauge, Add	8.34	
			For 22 Gauge, Add	19.17	
			For 20 Gauge, Add	31.26	
			For 18 Gauge, Add	47.93	
			For 16 Gauge, Add	58.35	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.84	
			For Work In Restricted Working Space, Add	135.29	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0107 EA 20" x 20" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	560.17	129.30
For 24 Gauge, Add	8.64	
For 22 Gauge, Add	19.87	
For 20 Gauge, Add	32.40	
For 18 Gauge, Add	49.68	
For 16 Gauge, Add	60.48	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.97	
For Work In Restricted Working Space, Add	155.09	
23 31 13 16-0108 EA 22" x 22" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	624.86	143.07
For 24 Gauge, Add	10.40	
For 22 Gauge, Add	23.92	
For 20 Gauge, Add	38.99	
For 18 Gauge, Add	59.79	
For 16 Gauge, Add	72.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	38.47	
For Work In Restricted Working Space, Add	171.86	
23 31 13 16-0109 EA 24" x 24" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	677.10	155.79
For 24 Gauge, Add	10.74	
For 22 Gauge, Add	24.70	
For 20 Gauge, Add	40.27	
For 18 Gauge, Add	61.74	
For 16 Gauge, Add	75.17	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.73	
For Work In Restricted Working Space, Add	187.02	
23 31 13 16-0110 EA 8" x 8" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	218.26	48.01
For 24 Gauge, Add	5.23	
For 22 Gauge, Add	12.02	
For 20 Gauge, Add	19.60	
For 18 Gauge, Add	30.05	
For 16 Gauge, Add	36.58	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.34	
For Work In Restricted Working Space, Add	57.64	
23 31 13 16-0111 EA 10" x 10" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	263.98	57.76
For 24 Gauge, Add	6.60	
For 22 Gauge, Add	15.18	
For 20 Gauge, Add	24.74	
For 18 Gauge, Add	37.94	
For 16 Gauge, Add	46.19	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.41	
For Work In Restricted Working Space, Add	69.30	
23 31 13 16-0112 EA 12" x 12" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	320.71	70.16
For 24 Gauge, Add	8.01	
For 22 Gauge, Add	18.42	
For 20 Gauge, Add	30.04	
For 18 Gauge, Add	46.06	
For 16 Gauge, Add	56.07	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.64	
For Work In Restricted Working Space, Add	84.20	
23 31 13 16-0113 EA 14" x 14" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	381.80	83.41
For 24 Gauge, Add	9.54	
For 22 Gauge, Add	21.94	
For 20 Gauge, Add	35.77	
For 18 Gauge, Add	54.84	
For 16 Gauge, Add	66.77	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.29	
For Work In Restricted Working Space, Add	100.23	
23 31 13 16-0114 EA 16" x 16" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	484.00	107.25
For 24 Gauge, Add	11.06	
For 22 Gauge, Add	25.43	
For 20 Gauge, Add	41.46	
For 18 Gauge, Add	63.57	
For 16 Gauge, Add	77.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.91	
For Work In Restricted Working Space, Add	128.62	
23 31 13 16-0115 EA 18" x 18" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	537.63	119.01
For 24 Gauge, Add	12.39	
For 22 Gauge, Add	28.50	
For 20 Gauge, Add	46.46	
For 18 Gauge, Add	71.24	
For 16 Gauge, Add	86.73	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	45.84	
For Work In Restricted Working Space, Add	142.70	
23 31 13 16-0116 EA 20" x 20" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	611.23	135.44
For 24 Gauge, Add	14.10	
For 22 Gauge, Add	32.43	
For 20 Gauge, Add	52.88	
For 18 Gauge, Add	81.09	
For 16 Gauge, Add	98.71	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	52.18	
For Work In Restricted Working Space, Add	162.22	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0117	EA	22" x 22" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	655.82	144.45
		For 24 Gauge, Add	15.72	
		For 22 Gauge, Add	36.15	
		For 20 Gauge, Add	58.94	
		For 18 Gauge, Add	90.38	
		For 16 Gauge, Add	110.03	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	58.16	
		For Work In Restricted Working Space, Add	173.17	
23 31 13 16-0118	EA	24" x 24" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	711.52	156.64
		For 24 Gauge, Add	17.03	
		For 22 Gauge, Add	39.17	
		For 20 Gauge, Add	63.87	
		For 18 Gauge, Add	97.93	
		For 16 Gauge, Add	119.22	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	63.02	
		For Work In Restricted Working Space, Add	187.91	
23 31 13 16-0119	EA	10" x 10" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	288.77	63.58
		For 24 Gauge, Add	6.95	
		For 22 Gauge, Add	15.99	
		For 20 Gauge, Add	26.06	
		For 18 Gauge, Add	39.96	
		For 16 Gauge, Add	48.65	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.72	
		For Work In Restricted Working Space, Add	76.21	
23 31 13 16-0120	EA	12" x 12" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	350.94	77.37
		For 24 Gauge, Add	8.43	
		For 22 Gauge, Add	19.38	
		For 20 Gauge, Add	31.61	
		For 18 Gauge, Add	48.46	
		For 16 Gauge, Add	59.00	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.18	
		For Work In Restricted Working Space, Add	92.64	
23 31 13 16-0121	EA	14" x 14" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	417.70	91.67
		For 24 Gauge, Add	10.04	
		For 22 Gauge, Add	23.10	
		For 20 Gauge, Add	37.67	
		For 18 Gauge, Add	57.75	
		For 16 Gauge, Add	70.31	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	37.16	
		For Work In Restricted Working Space, Add	110.24	
23 31 13 16-0122	EA	16" x 16" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	484.85	106.83
		For 24 Gauge, Add	11.64	
		For 22 Gauge, Add	26.77	
		For 20 Gauge, Add	43.65	
		For 18 Gauge, Add	66.93	
		For 16 Gauge, Add	81.48	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	43.07	
		For Work In Restricted Working Space, Add	128.00	
23 31 13 16-0123	EA	18" x 18" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	542.60	119.44
		For 24 Gauge, Add	13.04	
		For 22 Gauge, Add	30.00	
		For 20 Gauge, Add	48.91	
		For 18 Gauge, Add	74.99	
		For 16 Gauge, Add	91.29	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	48.26	
		For Work In Restricted Working Space, Add	143.22	
23 31 13 16-0124	EA	20" x 20" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	617.14	135.86
		For 24 Gauge, Add	14.84	
		For 22 Gauge, Add	34.14	
		For 20 Gauge, Add	55.66	
		For 18 Gauge, Add	85.34	
		For 16 Gauge, Add	103.89	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	54.92	
		For Work In Restricted Working Space, Add	162.88	
23 31 13 16-0125	EA	22" x 22" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	689.02	151.56
		For 24 Gauge, Add	16.55	
		For 22 Gauge, Add	38.06	
		For 20 Gauge, Add	62.05	
		For 18 Gauge, Add	95.14	
		For 16 Gauge, Add	115.82	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	61.22	
		For Work In Restricted Working Space, Add	181.89	
23 31 13 16-0126	EA	24" x 24" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	747.08	164.48
		For 24 Gauge, Add	17.93	
		For 22 Gauge, Add	41.23	
		For 20 Gauge, Add	67.23	
		For 18 Gauge, Add	103.09	
		For 16 Gauge, Add	125.50	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	66.33	
		For Work In Restricted Working Space, Add	197.23	

23 31 13 16-0127 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducers (23 31 13 16-0062)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0128	EA		6" x 4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer	95.46	21.19
			For 24 Gauge, Add	2.13	
			For 22 Gauge, Add	4.91	
			For 20 Gauge, Add	8.00	
			For 18 Gauge, Add	12.27	
			For 16 Gauge, Add	14.94	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.90	
			For Work In Restricted Working Space, Add	25.44	
23 31 13 16-0129	EA		8" x 6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer	123.30	27.55
			For 24 Gauge, Add	2.35	
			For 22 Gauge, Add	5.40	
			For 20 Gauge, Add	8.81	
			For 18 Gauge, Add	13.50	
			For 16 Gauge, Add	16.44	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.69	
			For Work In Restricted Working Space, Add	33.47	
23 31 13 16-0130	EA		10" x 8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	154.30	34.97
			For 24 Gauge, Add	2.60	
			For 22 Gauge, Add	5.98	
			For 20 Gauge, Add	9.75	
			For 18 Gauge, Add	14.95	
			For 16 Gauge, Add	18.20	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.62	
			For Work In Restricted Working Space, Add	42.39	
23 31 13 16-0131	EA		12" x 10" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	190.89	44.51
			For 24 Gauge, Add	2.85	
			For 22 Gauge, Add	6.56	
			For 20 Gauge, Add	10.69	
			For 18 Gauge, Add	16.39	
			For 16 Gauge, Add	19.95	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.55	
			For Work In Restricted Working Space, Add	52.99	
23 31 13 16-0132	EA		14" x 12" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	208.56	48.75
			For 24 Gauge, Add	3.17	
			For 22 Gauge, Add	7.30	
			For 20 Gauge, Add	11.90	
			For 18 Gauge, Add	18.25	
			For 16 Gauge, Add	22.22	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.74	
			For Work In Restricted Working Space, Add	57.81	
23 31 13 16-0133	EA		16" x 14" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	255.35	57.23
			For 24 Gauge, Add	5.49	
			For 22 Gauge, Add	12.62	
			For 20 Gauge, Add	20.57	
			For 18 Gauge, Add	31.54	
			For 16 Gauge, Add	38.40	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.30	
			For Work In Restricted Working Space, Add	68.38	
23 31 13 16-0134	EA		18" x 16" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	311.92	71.00
			For 24 Gauge, Add	5.86	
			For 22 Gauge, Add	13.48	
			For 20 Gauge, Add	21.98	
			For 18 Gauge, Add	33.71	
			For 16 Gauge, Add	41.03	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.69	
			For Work In Restricted Working Space, Add	84.78	
23 31 13 16-0135	EA		20" x 18" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	373.16	85.84
			For 24 Gauge, Add	6.26	
			For 22 Gauge, Add	14.39	
			For 20 Gauge, Add	23.46	
			For 18 Gauge, Add	35.97	
			For 16 Gauge, Add	43.79	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	23.15	
			For Work In Restricted Working Space, Add	102.56	
23 31 13 16-0136	EA		22" x 20" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	433.18	99.62
			For 24 Gauge, Add	6.65	
			For 22 Gauge, Add	15.30	
			For 20 Gauge, Add	24.94	
			For 18 Gauge, Add	38.24	
			For 16 Gauge, Add	46.55	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.61	
			For Work In Restricted Working Space, Add	119.98	
23 31 13 16-0137	EA		24" x 22" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	486.03	113.40
			For 24 Gauge, Add	7.01	
			For 22 Gauge, Add	16.12	
			For 20 Gauge, Add	26.29	
			For 18 Gauge, Add	40.31	
			For 16 Gauge, Add	49.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.94	
			For Work In Restricted Working Space, Add	135.29	

23 31 13 16-0138 26 Gauge, Slip Joint, Galvanized, Spiral Duct Couplings (23 31 13 16-0062)



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Ducts And Casings			23 31

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0139	EA	4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	62.34	14.84
		For 24 Gauge, Add	1.01	
		For 22 Gauge, Add	2.32	
		For 20 Gauge, Add	3.79	
		For 18 Gauge, Add	5.81	
		For 16 Gauge, Add	7.07	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.74	
		For Work In Restricted Working Space, Add	17.19	
23 31 13 16-0140	EA	6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	90.53	21.19
		For 24 Gauge, Add	1.15	
		For 22 Gauge, Add	2.64	
		For 20 Gauge, Add	4.31	
		For 18 Gauge, Add	6.60	
		For 16 Gauge, Add	8.04	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.25	
		For Work In Restricted Working Space, Add	25.44	
23 31 13 16-0141	EA	8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	117.74	27.55
		For 24 Gauge, Add	1.24	
		For 22 Gauge, Add	2.84	
		For 20 Gauge, Add	4.64	
		For 18 Gauge, Add	7.11	
		For 16 Gauge, Add	8.65	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.57	
		For Work In Restricted Working Space, Add	33.47	
23 31 13 16-0142	EA	10" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	147.93	34.97
		For 24 Gauge, Add	1.33	
		For 22 Gauge, Add	3.05	
		For 20 Gauge, Add	4.97	
		For 18 Gauge, Add	7.62	
		For 16 Gauge, Add	9.28	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.91	
		For Work In Restricted Working Space, Add	42.39	
23 31 13 16-0143	EA	12" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	183.72	44.51
		For 24 Gauge, Add	1.42	
		For 22 Gauge, Add	3.26	
		For 20 Gauge, Add	5.31	
		For 18 Gauge, Add	8.14	
		For 16 Gauge, Add	9.91	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.24	
		For Work In Restricted Working Space, Add	52.99	
23 31 13 16-0144	EA	14" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	200.22	48.75
		For 24 Gauge, Add	1.51	
		For 22 Gauge, Add	3.46	
		For 20 Gauge, Add	5.65	
		For 18 Gauge, Add	8.66	
		For 16 Gauge, Add	10.54	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.57	
		For Work In Restricted Working Space, Add	57.81	
23 31 13 16-0145	EA	16" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	236.26	57.23
		For 24 Gauge, Add	1.67	
		For 22 Gauge, Add	3.84	
		For 20 Gauge, Add	6.26	
		For 18 Gauge, Add	9.59	
		For 16 Gauge, Add	11.68	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.17	
		For Work In Restricted Working Space, Add	68.38	
23 31 13 16-0146	EA	18" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	291.39	71.00
		For 24 Gauge, Add	1.76	
		For 22 Gauge, Add	4.04	
		For 20 Gauge, Add	6.59	
		For 18 Gauge, Add	10.10	
		For 16 Gauge, Add	12.29	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.50	
		For Work In Restricted Working Space, Add	84.78	
23 31 13 16-0147	EA	20" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	351.20	85.84
		For 24 Gauge, Add	1.86	
		For 22 Gauge, Add	4.29	
		For 20 Gauge, Add	6.99	
		For 18 Gauge, Add	10.72	
		For 16 Gauge, Add	13.05	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.90	
		For Work In Restricted Working Space, Add	102.56	
23 31 13 16-0148	EA	22" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	409.61	200.30
		For 24 Gauge, Add	1.94	
		For 22 Gauge, Add	4.45	
		For 20 Gauge, Add	7.26	
		For 18 Gauge, Add	11.13	
		For 16 Gauge, Add	13.55	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.16	
		For Work In Restricted Working Space, Add	119.98	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0149	EA		24" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	461.20	225.74
			For 24 Gauge, Add	2.04	
			For 22 Gauge, Add	4.70	
			For 20 Gauge, Add	7.67	
			For 18 Gauge, Add	11.75	
			For 16 Gauge, Add	14.31	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.56	
			For Work In Restricted Working Space, Add	135.29	
23 31 13 16-0150			26 Gauge, Slip Joint, Galvanized, Spiral Duct Caps (23 31 13 16-0062)		
23 31 13 16-0151	EA		4" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	34.56	14.84
			For 24 Gauge, Add	1.18	
			For 22 Gauge, Add	2.72	
			For 20 Gauge, Add	4.44	
			For 18 Gauge, Add	6.81	
			For 16 Gauge, Add	8.29	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.38	
			For Work In Restricted Working Space, Add	8.59	
23 31 13 16-0152	EA		6" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	49.02	21.19
			For 24 Gauge, Add	1.33	
			For 22 Gauge, Add	3.05	
			For 20 Gauge, Add	4.97	
			For 18 Gauge, Add	7.62	
			For 16 Gauge, Add	9.28	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.91	
			For Work In Restricted Working Space, Add	12.72	
23 31 13 16-0153	EA		8" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	63.04	28.61
			For 24 Gauge, Add	1.45	
			For 22 Gauge, Add	3.34	
			For 20 Gauge, Add	5.45	
			For 18 Gauge, Add	8.35	
			For 16 Gauge, Add	10.16	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.37	
			For Work In Restricted Working Space, Add	16.73	
23 31 13 16-0154	EA		10" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	78.72	36.03
			For 24 Gauge, Add	1.61	
			For 22 Gauge, Add	3.71	
			For 20 Gauge, Add	6.05	
			For 18 Gauge, Add	9.28	
			For 16 Gauge, Add	11.30	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.97	
			For Work In Restricted Working Space, Add	21.20	
23 31 13 16-0155	EA		12" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	97.27	44.51
			For 24 Gauge, Add	1.79	
			For 22 Gauge, Add	4.12	
			For 20 Gauge, Add	6.72	
			For 18 Gauge, Add	10.30	
			For 16 Gauge, Add	12.54	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.63	
			For Work In Restricted Working Space, Add	26.49	
23 31 13 16-0156	EA		14" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	106.21	48.75
			For 24 Gauge, Add	1.97	
			For 22 Gauge, Add	4.54	
			For 20 Gauge, Add	7.40	
			For 18 Gauge, Add	11.34	
			For 16 Gauge, Add	13.80	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.30	
			For Work In Restricted Working Space, Add	28.91	
23 31 13 16-0157	EA		16" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	122.94	56.16
			For 24 Gauge, Add	2.28	
			For 22 Gauge, Add	5.23	
			For 20 Gauge, Add	8.54	
			For 18 Gauge, Add	13.09	
			For 16 Gauge, Add	15.93	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.42	
			For Work In Restricted Working Space, Add	33.47	
23 31 13 16-0158	EA		18" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	179.66	71.00
			For 24 Gauge, Add	7.67	
			For 22 Gauge, Add	17.65	
			For 20 Gauge, Add	28.77	
			For 18 Gauge, Add	44.11	
			For 16 Gauge, Add	53.70	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	28.39	
			For Work In Restricted Working Space, Add	42.39	
23 31 13 16-0159	EA		20" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap	218.23	87.96
			For 24 Gauge, Add	8.32	
			For 22 Gauge, Add	19.13	
			For 20 Gauge, Add	31.19	
			For 18 Gauge, Add	47.83	
			For 16 Gauge, Add	58.23	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.78	
			For Work In Restricted Working Space, Add	52.99	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0160 EA 22" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap For 24 Gauge, Add For 22 Gauge, Add For 20 Gauge, Add For 18 Gauge, Add For 16 Gauge, Add For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add For Work In Restricted Working Space, Add	237.51 8.96 20.62 33.62 51.54 62.75 33.17 57.81	96.45
23 31 13 16-0161 EA 24" 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap For 24 Gauge, Add For 22 Gauge, Add For 20 Gauge, Add For 18 Gauge, Add For 16 Gauge, Add For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add For Work In Restricted Working Space, Add	273.62 9.63 22.14 36.10 55.35 67.38 35.62 67.65	112.34
23 31 13 19 Metal Duct Fittings (23 31 13)		
23 31 13 19-0001 Sheet Metal Baffles (23 31 13 19)		
23 31 13 19-0002 LF Sheet Metal Baffles Under Raised Floor For Work In Restricted Working Space, Add	38.60 11.28	30.86
23 31 13 23 Galvanized Steel Welded Duct (23 31 13)		
Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.		
23 31 13 23-0001 Welded Steel Ductwork (23 31 13 23)		
Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.		
23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen (23 31 13 23-0001)		
Note: Also includes special exhaust systems and waste.		
23 31 13 23-0003 LB Galvanized Steel Welded Duct For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add For Work In Restricted Working Space, Add	22.83 3.02 5.63	9.36
23 31 13 23-0004 Black Steel Ductwork (23 31 13 23-0001)		
23 31 13 23-0005 LB Black Steel Ductwork For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add For Work In Restricted Working Space, Add	20.21 0.68 5.79	9.64
23 31 13 33 Duct Boots (23 31 13)		
23 31 13 33-0001 Duct Register Boots (23 31 13 33)		
23 31 13 33-0002 EA 10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	38.38 12.49	14.39
23 31 13 33-0003 EA 10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	38.38 12.49	14.39
23 31 13 33-0004 EA 12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	40.91 12.78	15.54
23 31 13 33-0005 EA 12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	40.91 12.78	15.54
23 31 13 33-0006 EA 12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	43.28 15.86	15.54
23 31 13 33-0007 EA 14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	44.39 14.30	16.69
23 31 13 33-0008 EA 14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	44.39 14.30	16.69
23 31 13 33-0009 EA 14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	45.86 16.21	16.69
23 31 13 33-0010 EA 10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	44.34 11.25	17.84
23 31 13 33-0011 EA 12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	46.90 11.58	18.99
23 31 13 33-0012 EA 12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	52.94 19.44	18.99
23 31 13 33-0013 EA 14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	49.73 12.27	20.14
23 31 13 33-0014 EA 14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel For Stainless Steel, Add	55.65 19.97	20.14
23 31 13 33-0015 EA 12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel For Stainless Steel, Add	39.47 10.91	15.54
23 31 13 33-0016 EA 12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel For Stainless Steel, Add	39.47 10.91	15.54
23 31 13 33-0017 EA 14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel For Stainless Steel, Add	42.75 12.17	16.69
23 31 13 33-0018 EA 14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel For Stainless Steel, Add	44.16 14.00	16.69
23 31 13 33-0019 EA 10" x 4" x 6" Register Boot, Center, Galvanized Steel For Stainless Steel, Add	44.53 11.49	17.84

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 33-0020 EA 12" x 4" x 6" Register Boot, Center, Galvanized Steel	47.07	18.99
For Stainless Steel, Add	11.80	
23 31 13 33-0021 EA 12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel	40.44	15.54
For Stainless Steel, Add	12.17	
23 31 13 33-0022 EA 14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel	43.32	16.69
For Stainless Steel, Add	12.91	
23 31 13 33-0023 EA 10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel	38.38	14.39
For Stainless Steel, Add	12.49	
23 31 13 33-0024 EA 12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel	40.91	15.54
For Stainless Steel, Add	12.78	
23 31 13 33-0025 EA 14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel	44.39	16.69
For Stainless Steel, Add	14.30	
23 31 13 33-0026 EA 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel	44.39	16.69
For Stainless Steel, Add	14.30	
23 31 13 33-0027 EA 10" x 4" x 6" Register Boot, Universal, Galvanized Steel	44.34	17.84
For Stainless Steel, Add	11.25	
23 31 13 33-0028 EA 12" x 4" x 6" Register Boot, Universal, Galvanized Steel	46.90	18.99
For Stainless Steel, Add	11.58	
23 31 13 33-0029 EA 12" x 4" x 7" Register Boot, Universal, Galvanized Steel	52.94	18.99
For Stainless Steel, Add	19.44	
23 31 13 33-0030 EA 14" x 4" x 7" Register Boot, Universal, Galvanized Steel	55.24	20.14
For Stainless Steel, Add	19.44	

23 31 16 Nonmetal Ducts (23 31)**23 31 16 13 Fibrous-Glass Ducts (23 31 16)****23 31 16 13-0001****Glass Fiber Duct Board (23 31 16 13)**

Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.

23 31 16 13-0002 SF 1" Glass Fiber Duct Board (EI-475)	8.87	1.93
23 31 16 13-0003 SF 1-1/2" Glass Fiber Duct Board (EI-800)	10.20	2.12
23 31 16 13-0004 SF 2" Glass Fiber Duct Board (EI-800)	11.64	2.33

23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts (23 31 16)**23 31 16 16-0001****Round Fiber Reinforced Plastic Duct (23 31 16 16)****23 31 16 16-0002****Round Fiber Reinforced Plastic Duct (23 31 16 16-0001)**

23 31 16 16-0003 LF 2" Fiber Reinforced Plastic Duct	14.87	5.44
23 31 16 16-0004 LF 3" Fiber Reinforced Plastic Duct	18.45	6.36
23 31 16 16-0005 LF 4" Fiber Reinforced Plastic Duct	25.32	9.33
23 31 16 16-0006 LF 6" Fiber Reinforced Plastic Duct	33.31	11.79
23 31 16 16-0007 LF 8" Fiber Reinforced Plastic Duct	42.13	14.77
23 31 16 16-0008 LF 10" Fiber Reinforced Plastic Duct	50.77	17.74
23 31 16 16-0009 LF 12" Fiber Reinforced Plastic Duct	57.46	20.72
23 31 16 16-0010 LF 14" Fiber Reinforced Plastic Duct	65.16	22.67
23 31 16 16-0011 LF 16" Fiber Reinforced Plastic Duct	70.28	24.11
23 31 16 16-0012 LF 18" Fiber Reinforced Plastic Duct	86.17	27.07
23 31 16 16-0013 LF 20" Fiber Reinforced Plastic Duct	90.87	29.02
23 31 16 16-0014 LF 24" Fiber Reinforced Plastic Duct	110.07	30.97
23 31 16 16-0015 LF 30" Fiber Reinforced Plastic Duct	126.24	35.90
23 31 16 16-0016 LF 36" Fiber Reinforced Plastic Duct	146.51	43.28
23 31 16 16-0017 LF 42" Fiber Reinforced Plastic Duct	191.86	48.20
23 31 16 16-0018 LF 48" Fiber Reinforced Plastic Duct	214.99	54.16
23 31 16 16-0019 LF 54" Fiber Reinforced Plastic Duct	239.61	62.05
23 31 16 16-0020 LF 60" Fiber Reinforced Plastic Duct	272.77	72.41
23 31 16 16-0021 LF 66" Fiber Reinforced Plastic Duct	297.19	88.62
23 31 16 16-0022 LF 72" Fiber Reinforced Plastic Duct	362.72	108.31

23 31 16 16-0023**Fiber Reinforced Plastic Bell (23 31 16 16-0001)**

23 31 16 16-0024 EA 2" Fiber Reinforced Plastic Bell	62.97	22.05
23 31 16 16-0025 EA 3" Fiber Reinforced Plastic Bell	75.90	26.16
23 31 16 16-0026 EA 4" Fiber Reinforced Plastic Bell	87.48	30.77
23 31 16 16-0027 EA 6" Fiber Reinforced Plastic Bell	115.07	41.03
23 31 16 16-0028 EA 8" Fiber Reinforced Plastic Bell	140.30	51.28
23 31 16 16-0029 EA 10" Fiber Reinforced Plastic Bell	163.18	61.53
23 31 16 16-0030 EA 12" Fiber Reinforced Plastic Bell	202.36	76.41
23 31 16 16-0031 EA 14" Fiber Reinforced Plastic Bell	216.29	82.05
23 31 16 16-0032 EA 16" Fiber Reinforced Plastic Bell	234.35	87.69
23 31 16 16-0033 EA 18" Fiber Reinforced Plastic Bell	252.40	94.36
23 31 16 16-0034 EA 20" Fiber Reinforced Plastic Bell	275.89	102.56
23 31 16 16-0035 EA 24" Fiber Reinforced Plastic Bell	319.99	112.81
23 31 16 16-0036 EA 30" Fiber Reinforced Plastic Bell	371.16	123.08
23 31 16 16-0037 EA 36" Fiber Reinforced Plastic Bell	420.82	138.46
23 31 16 16-0038 EA 42" Fiber Reinforced Plastic Bell	470.46	153.84
23 31 16 16-0039 EA 48" Fiber Reinforced Plastic Bell	520.08	169.23
23 31 16 16-0040 EA 54" Fiber Reinforced Plastic Bell	646.14	205.12
23 31 16 16-0041 EA 60" Fiber Reinforced Plastic Bell	772.29	256.41
23 31 16 16-0042 EA 66" Fiber Reinforced Plastic Bell	926.69	307.69

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0043 EA 72" Fiber Reinforced Plastic Bell.....	1,060.78	348.71
23 31 16 16-0044 Fiber Reinforced Plastic Flange (23 31 16 16-0001)		
23 31 16 16-0045 EA 2" Fiber Reinforced Plastic Flange.....	100.71	22.05
23 31 16 16-0046 EA 3" Fiber Reinforced Plastic Flange.....	116.00	26.16
23 31 16 16-0047 EA 4" Fiber Reinforced Plastic Flange.....	132.30	30.77
23 31 16 16-0048 EA 6" Fiber Reinforced Plastic Flange.....	171.69	41.03
23 31 16 16-0049 EA 8" Fiber Reinforced Plastic Flange.....	208.71	51.28
23 31 16 16-0050 EA 10" Fiber Reinforced Plastic Flange.....	245.74	61.53
23 31 16 16-0051 EA 12" Fiber Reinforced Plastic Flange.....	289.64	76.41
23 31 16 16-0052 EA 14" Fiber Reinforced Plastic Flange.....	322.45	82.05
23 31 16 16-0053 EA 16" Fiber Reinforced Plastic Flange.....	352.30	87.69
23 31 16 16-0054 EA 18" Fiber Reinforced Plastic Flange.....	375.06	94.36
23 31 16 16-0055 EA 20" Fiber Reinforced Plastic Flange.....	393.83	102.56
23 31 16 16-0056 EA 24" Fiber Reinforced Plastic Flange.....	461.52	112.81
23 31 16 16-0057 EA 30" Fiber Reinforced Plastic Flange.....	507.98	123.08
23 31 16 16-0058 EA 36" Fiber Reinforced Plastic Flange.....	626.05	138.46
23 31 16 16-0059 EA 42" Fiber Reinforced Plastic Flange.....	696.92	153.84
23 31 16 16-0060 EA 48" Fiber Reinforced Plastic Flange.....	791.35	169.23
23 31 16 16-0061 EA 54" Fiber Reinforced Plastic Flange.....	929.21	205.12
23 31 16 16-0062 EA 60" Fiber Reinforced Plastic Flange.....	1,109.61	256.41
23 31 16 16-0063 EA 66" Fiber Reinforced Plastic Flange.....	1,289.97	307.69
23 31 16 16-0064 EA 72" Fiber Reinforced Plastic Flange.....	1,475.95	348.71
23 31 16 16-0065 Fiber Reinforced Plastic 90 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0066 EA 2" Fiber Reinforced Plastic 90 Degree Elbow	166.46	53.13
23 31 16 16-0067 EA 3" Fiber Reinforced Plastic 90 Degree Elbow	195.49	63.48
23 31 16 16-0068 EA 4" Fiber Reinforced Plastic 90 Degree Elbow	226.86	73.85
23 31 16 16-0069 EA 6" Fiber Reinforced Plastic 90 Degree Elbow	293.84	98.46
23 31 16 16-0070 EA 8" Fiber Reinforced Plastic 90 Degree Elbow	360.81	123.08
23 31 16 16-0071 EA 10" Fiber Reinforced Plastic 90 Degree Elbow	427.81	147.69
23 31 16 16-0072 EA 12" Fiber Reinforced Plastic 90 Degree Elbow	525.46	183.69
23 31 16 16-0073 EA 14" Fiber Reinforced Plastic 90 Degree Elbow	595.39	194.45
23 31 16 16-0074 EA 16" Fiber Reinforced Plastic 90 Degree Elbow	677.54	211.17
23 31 16 16-0075 EA 18" Fiber Reinforced Plastic 90 Degree Elbow	806.78	226.45
23 31 16 16-0076 EA 20" Fiber Reinforced Plastic 90 Degree Elbow	929.27	246.15
23 31 16 16-0077 EA 24" Fiber Reinforced Plastic 90 Degree Elbow	1,076.45	270.77
23 31 16 16-0078 EA 30" Fiber Reinforced Plastic 90 Degree Elbow	1,447.68	295.38
23 31 16 16-0079 EA 36" Fiber Reinforced Plastic 90 Degree Elbow	1,851.31	332.30
23 31 16 16-0080 EA 42" Fiber Reinforced Plastic 90 Degree Elbow	2,431.82	369.33
23 31 16 16-0081 EA 48" Fiber Reinforced Plastic 90 Degree Elbow	2,882.64	406.25
23 31 16 16-0082 EA 54" Fiber Reinforced Plastic 90 Degree Elbow	3,415.29	492.30
23 31 16 16-0083 EA 60" Fiber Reinforced Plastic 90 Degree Elbow	4,139.37	615.37
23 31 16 16-0084 EA 66" Fiber Reinforced Plastic 90 Degree Elbow	4,863.06	738.24
23 31 16 16-0085 EA 72" Fiber Reinforced Plastic 90 Degree Elbow	5,545.93	836.60
23 31 16 16-0086 Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0087 EA 2" Fiber Reinforced Plastic 45 Degree Elbow	140.51	53.13
23 31 16 16-0088 EA 3" Fiber Reinforced Plastic 45 Degree Elbow	164.82	63.48
23 31 16 16-0089 EA 4" Fiber Reinforced Plastic 45 Degree Elbow	191.46	73.85
23 31 16 16-0090 EA 6" Fiber Reinforced Plastic 45 Degree Elbow	241.94	98.46
23 31 16 16-0091 EA 8" Fiber Reinforced Plastic 45 Degree Elbow	292.40	123.08
23 31 16 16-0092 EA 10" Fiber Reinforced Plastic 45 Degree Elbow	347.67	147.69
23 31 16 16-0093 EA 12" Fiber Reinforced Plastic 45 Degree Elbow	428.81	183.69
23 31 16 16-0094 EA 14" Fiber Reinforced Plastic 45 Degree Elbow	465.56	194.45
23 31 16 16-0095 EA 16" Fiber Reinforced Plastic 45 Degree Elbow	554.69	211.07
23 31 16 16-0096 EA 18" Fiber Reinforced Plastic 45 Degree Elbow	637.21	226.66
23 31 16 16-0097 EA 20" Fiber Reinforced Plastic 45 Degree Elbow	735.78	246.15
23 31 16 16-0098 EA 24" Fiber Reinforced Plastic 45 Degree Elbow	847.17	270.56
23 31 16 16-0099 EA 30" Fiber Reinforced Plastic 45 Degree Elbow	1,069.88	295.18
23 31 16 16-0100 EA 36" Fiber Reinforced Plastic 45 Degree Elbow	1,306.88	332.61
23 31 16 16-0101 EA 42" Fiber Reinforced Plastic 45 Degree Elbow	1,660.90	369.54
23 31 16 16-0102 EA 48" Fiber Reinforced Plastic 45 Degree Elbow	1,950.88	406.25
23 31 16 16-0103 EA 54" Fiber Reinforced Plastic 45 Degree Elbow	2,325.48	492.30
23 31 16 16-0104 EA 60" Fiber Reinforced Plastic 45 Degree Elbow	2,790.08	615.37
23 31 16 16-0105 EA 66" Fiber Reinforced Plastic 45 Degree Elbow	3,280.24	736.81
23 31 16 16-0106 EA 72" Fiber Reinforced Plastic 45 Degree Elbow	3,707.50	837.42
23 31 16 16-0107 Fiber Reinforced Plastic Tee (23 31 16 16-0001)		
23 31 16 16-0108 EA 2" Fiber Reinforced Plastic Tee	214.66	79.28
23 31 16 16-0109 EA 3" Fiber Reinforced Plastic Tee	253.53	95.48
23 31 16 16-0110 EA 4" Fiber Reinforced Plastic Tee	290.76	110.76
23 31 16 16-0111 EA 6" Fiber Reinforced Plastic Tee	375.91	147.69
23 31 16 16-0112 EA 8" Fiber Reinforced Plastic Tee	459.41	183.69
23 31 16 16-0113 EA 10" Fiber Reinforced Plastic Tee	547.77	222.56
23 31 16 16-0114 EA 12" Fiber Reinforced Plastic Tee	661.90	269.74

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0115 EA 14" Fiber Reinforced Plastic Tee	722.43	291.89
23 31 16 16-0116 EA 16" Fiber Reinforced Plastic Tee	835.11	317.12
23 31 16 16-0117 EA 18" Fiber Reinforced Plastic Tee	943.56	339.69
23 31 16 16-0118 EA 20" Fiber Reinforced Plastic Tee	1,087.25	369.33
23 31 16 16-0119 EA 24" Fiber Reinforced Plastic Tee	1,243.21	406.25
23 31 16 16-0120 EA 30" Fiber Reinforced Plastic Tee	1,481.33	442.96
23 31 16 16-0121 EA 36" Fiber Reinforced Plastic Tee	1,774.70	498.66
23 31 16 16-0122 EA 42" Fiber Reinforced Plastic Tee	2,338.66	554.04
23 31 16 16-0123 EA 48" Fiber Reinforced Plastic Tee	2,785.05	609.53
23 31 16 16-0124 EA 54" Fiber Reinforced Plastic Tee	3,354.55	738.96
23 31 16 16-0125 EA 60" Fiber Reinforced Plastic Tee	4,015.89	923.48
23 31 16 16-0126 EA 66" Fiber Reinforced Plastic Tee	4,676.66	1,107.58
23 31 16 16-0127 EA 72" Fiber Reinforced Plastic Tee	5,277.63	1,255.88

23 31 16 16-0128 Fiber Reinforced Plastic Lateral Joint (23 31 16 16-0001)

23 31 16 16-0129 EA 2" Fiber Reinforced Plastic Lateral Joint	179.27	79.28
23 31 16 16-0130 EA 3" Fiber Reinforced Plastic Lateral Joint	211.04	95.48
23 31 16 16-0131 EA 4" Fiber Reinforced Plastic Lateral Joint	241.24	110.76
23 31 16 16-0132 EA 6" Fiber Reinforced Plastic Lateral Joint	307.57	147.69
23 31 16 16-0133 EA 8" Fiber Reinforced Plastic Lateral Joint	372.20	183.69
23 31 16 16-0134 EA 10" Fiber Reinforced Plastic Lateral Joint	446.38	222.56
23 31 16 16-0135 EA 12" Fiber Reinforced Plastic Lateral Joint	534.75	269.94
23 31 16 16-0136 EA 14" Fiber Reinforced Plastic Lateral Joint	580.44	291.69
23 31 16 16-0137 EA 16" Fiber Reinforced Plastic Lateral Joint	637.19	317.22
23 31 16 16-0138 EA 18" Fiber Reinforced Plastic Lateral Joint	689.31	339.99
23 31 16 16-0139 EA 20" Fiber Reinforced Plastic Lateral Joint	752.73	369.54
23 31 16 16-0140 EA 24" Fiber Reinforced Plastic Lateral Joint	832.76	406.25
23 31 16 16-0141 EA 30" Fiber Reinforced Plastic Lateral Joint	919.50	442.76
23 31 16 16-0142 EA 36" Fiber Reinforced Plastic Lateral Joint	1,038.18	498.35
23 31 16 16-0143 EA 42" Fiber Reinforced Plastic Lateral Joint	1,159.88	554.35
23 31 16 16-0144 EA 48" Fiber Reinforced Plastic Lateral Joint	1,274.95	609.32
23 31 16 16-0145 EA 54" Fiber Reinforced Plastic Lateral Joint	1,522.86	736.81
23 31 16 16-0146 EA 60" Fiber Reinforced Plastic Lateral Joint	1,860.27	925.11
23 31 16 16-0147 EA 66" Fiber Reinforced Plastic Lateral Joint	2,248.31	1,108.39
23 31 16 16-0148 EA 72" Fiber Reinforced Plastic Lateral Joint	2,517.71	1,255.88

23 31 16 16-0149 Fiber Reinforced Plastic One Piece Reducer (23 31 16 16-0001)

23 31 16 16-0150 EA 2" Fiber Reinforced Plastic One Piece Reducer	149.98	53.23
23 31 16 16-0151 EA 3" Fiber Reinforced Plastic One Piece Reducer	176.67	63.59
23 31 16 16-0152 EA 4" Fiber Reinforced Plastic One Piece Reducer	208.05	73.85
23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer	267.89	98.46
23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer	323.06	123.08
23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer	388.67	148.30
23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer	461.84	183.69
23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer	493.87	194.45
23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer	545.25	211.07
23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer	599.47	226.66
23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer	669.73	246.15
23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer	763.19	271.07
23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer	856.36	295.89
23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer	969.56	332.61
23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer	1,082.97	369.54
23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer	1,219.62	406.25
23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer	1,445.61	492.30
23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer	1,726.21	615.37
23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer	1,935.67	736.81
23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer	2,174.22	837.42

23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer (23 31 16 16-0001)

23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer	178.29	53.23
23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer	195.54	63.59
23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer	226.92	73.85
23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer	293.84	98.46
23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer	360.81	123.08
23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer	428.78	148.30
23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer	513.73	183.69
23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer	559.92	194.45
23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer	611.30	211.07
23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer	689.10	226.66
23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer	867.88	246.15
23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer	1,053.34	271.07
23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer	1,129.99	295.89
23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer	1,285.65	332.61
23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer	1,394.35	369.54
23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer	1,526.27	406.25
23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer	1,693.29	492.30
23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer	1,959.74	615.37
23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer	2,195.15	736.81

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Ducts And Casings

23 31**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer	2,410.11	837.42
23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers (23 31 16 16-0001)		
23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper	312.70	53.13
23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper	353.53	63.48
23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper	394.34	73.85
23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper	470.76	98.46
23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper	558.96	123.08
23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper	635.39	147.69
23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper	730.68	183.69
23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper	807.69	194.45
23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper	894.56	211.17
23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper	978.98	226.45
23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper	1,047.21	246.15
23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper	1,182.60	270.77
23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper	1,365.12	295.38
23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper	1,568.24	332.30
23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper	1,794.92	369.33
23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper	1,998.05	406.25
23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper	2,353.78	492.30
23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper	2,771.21	615.37
23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper	3,164.65	738.24
23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper	3,635.23	836.60
23 33 Air Duct Accessories (23 30)		
23 33 13 Dampers (23 33)		
23 33 13 13 Volume-Control Dampers (23 33 13)		
23 33 13 13-0001 Radial Opposed Blade Damper Steel Construction (23 33 13 13)		
23 33 13 13-0002 EA 6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	49.64	9.21
For Stainless Steel, Add	18.08	
For Parallel Blade Damper, Add	5.56	
23 33 13 13-0003 EA 7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	55.56	10.36
For Stainless Steel, Add	18.36	
For Parallel Blade Damper, Add	5.65	
23 33 13 13-0004 EA 8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	62.45	11.51
For Stainless Steel, Add	18.54	
For Parallel Blade Damper, Add	5.70	
23 33 13 13-0005 EA 10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	68.28	13.81
For Stainless Steel, Add	19.71	
For Parallel Blade Damper, Add	6.06	
23 33 13 13-0006 EA 12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	75.25	14.96
For Stainless Steel, Add	20.87	
For Parallel Blade Damper, Add	6.42	
23 33 13 13-0007 EA 14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	85.26	16.12
For Stainless Steel, Add	26.66	
For Parallel Blade Damper, Add	8.20	
23 33 13 13-0008 EA 15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	93.74	17.27
For Stainless Steel, Add	28.98	
For Parallel Blade Damper, Add	8.92	
23 33 13 13-0009 EA 16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	99.92	19.57
For Stainless Steel, Add	30.13	
For Parallel Blade Damper, Add	9.27	
23 33 13 13-0010 EA 18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	108.73	20.72
For Stainless Steel, Add	33.61	
For Parallel Blade Damper, Add	10.34	
23 33 13 13-0011 EA 20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	122.19	23.02
For Stainless Steel, Add	41.73	
For Parallel Blade Damper, Add	12.84	
23 33 13 13-0012 EA 24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	130.73	23.02
For Stainless Steel, Add	47.52	
For Parallel Blade Damper, Add	14.62	
23 33 13 13-0013 EA 30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	146.39	26.47
For Stainless Steel, Add	55.63	
For Parallel Blade Damper, Add	17.12	
23 33 13 13-0014 EA 36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	155.68	27.63
For Stainless Steel, Add	60.62	
For Parallel Blade Damper, Add	18.65	
23 33 13 13-0015 Rectangular Opposed Blade Damper (23 33 13 13)		
23 33 13 13-0016 EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	67.09	12.78
For Stainless Steel, Add	37.38	
For Parallel Blade Damper, Add	11.50	
23 33 13 13-0017 EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	70.85	13.35
For Stainless Steel, Add	40.03	
For Parallel Blade Damper, Add	12.32	
23 33 13 13-0018 EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	73.13	13.47
For Stainless Steel, Add	42.69	
For Parallel Blade Damper, Add	13.14	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0019 EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	73.13	13.47
For Stainless Steel, Add	42.69	
For Parallel Blade Damper, Add	13.14	
23 33 13 13-0020 EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	76.35	13.82
For Stainless Steel, Add	45.37	
For Parallel Blade Damper, Add	13.96	
23 33 13 13-0021 EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	85.04	15.31
For Stainless Steel, Add	50.69	
For Parallel Blade Damper, Add	15.60	
23 33 13 13-0022 EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	76.35	13.82
For Stainless Steel, Add	45.37	
For Parallel Blade Damper, Add	13.96	
23 33 13 13-0023 EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	82.74	14.62
For Stainless Steel, Add	50.69	
For Parallel Blade Damper, Add	15.60	
23 33 13 13-0024 EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	87.11	15.31
For Stainless Steel, Add	53.38	
For Parallel Blade Damper, Add	16.42	
23 33 13 13-0025 EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	94.93	17.27
For Stainless Steel, Add	56.06	
For Parallel Blade Damper, Add	17.25	
23 33 13 13-0026 EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	81.73	14.62
For Stainless Steel, Add	49.37	
For Parallel Blade Damper, Add	15.19	
23 33 13 13-0027 EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	87.11	15.31
For Stainless Steel, Add	53.38	
For Parallel Blade Damper, Add	16.42	
23 33 13 13-0028 EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	91.47	16.12
For Stainless Steel, Add	56.06	
For Parallel Blade Damper, Add	17.25	
23 33 13 13-0029 EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	96.98	17.27
For Stainless Steel, Add	58.72	
For Parallel Blade Damper, Add	18.07	
23 33 13 13-0030 EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	107.86	19.23
For Stainless Steel, Add	65.39	
For Parallel Blade Damper, Add	20.12	
23 33 13 13-0031 EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	87.11	15.31
For Stainless Steel, Add	53.38	
For Parallel Blade Damper, Add	16.42	
23 33 13 13-0032 EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	92.63	16.47
For Stainless Steel, Add	56.06	
For Parallel Blade Damper, Add	17.25	
23 33 13 13-0033 EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	99.28	18.08
For Stainless Steel, Add	58.72	
For Parallel Blade Damper, Add	18.07	
23 33 13 13-0034 EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	104.78	19.23
For Stainless Steel, Add	61.39	
For Parallel Blade Damper, Add	18.89	
23 33 13 13-0035 EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	115.69	21.07
For Stainless Steel, Add	68.08	
For Parallel Blade Damper, Add	20.95	
23 33 13 13-0036 EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	126.57	23.03
For Stainless Steel, Add	74.74	
For Parallel Blade Damper, Add	23.00	
23 33 13 13-0037 EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	91.47	16.12
For Stainless Steel, Add	56.06	
For Parallel Blade Damper, Add	17.25	
23 33 13 13-0038 EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	98.00	17.27
For Stainless Steel, Add	60.05	
For Parallel Blade Damper, Add	18.48	
23 33 13 13-0039 EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	106.84	19.23
For Stainless Steel, Add	64.06	
For Parallel Blade Damper, Add	19.71	
23 33 13 13-0040 EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	117.74	21.07
For Stainless Steel, Add	70.75	
For Parallel Blade Damper, Add	21.77	
23 33 13 13-0041 EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	127.60	23.03
For Stainless Steel, Add	76.08	
For Parallel Blade Damper, Add	23.41	
23 33 13 13-0042 EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	138.48	24.87
For Stainless Steel, Add	82.73	
For Parallel Blade Damper, Add	25.46	
23 33 13 13-0043 EA 18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	147.32	26.83
For Stainless Steel, Add	86.75	
For Parallel Blade Damper, Add	26.69	
23 33 13 13-0044 EA 20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	96.98	17.27
For Stainless Steel, Add	58.72	
For Parallel Blade Damper, Add	18.07	
23 33 13 13-0045 EA 20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	106.83	19.23
For Stainless Steel, Add	64.05	
For Parallel Blade Damper, Add	19.71	
23 33 13 13-0046 EA 20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	116.70	21.07
For Stainless Steel, Add	69.39	
For Parallel Blade Damper, Add	21.35	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0047 EA 20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	130.68	23.03
For Stainless Steel, Add	80.08	
For Parallel Blade Damper, Add	24.64	
23 33 13 13-0048 EA 20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	139.53	24.87
For Stainless Steel, Add	84.10	
For Parallel Blade Damper, Add	25.88	
23 33 13 13-0049 EA 20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	148.36	26.83
For Stainless Steel, Add	88.10	
For Parallel Blade Damper, Add	27.11	
23 33 13 13-0050 EA 20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	158.21	28.79
For Stainless Steel, Add	93.42	
For Parallel Blade Damper, Add	28.74	
23 33 13 13-0051 EA 20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	168.07	30.63
For Stainless Steel, Add	98.75	
For Parallel Blade Damper, Add	30.38	
23 33 13 13-0052 EA 24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	108.89	19.23
For Stainless Steel, Add	66.73	
For Parallel Blade Damper, Add	20.53	
23 33 13 13-0053 EA 24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	120.81	21.07
For Stainless Steel, Add	74.74	
For Parallel Blade Damper, Add	23.00	
23 33 13 13-0054 EA 24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	130.68	23.03
For Stainless Steel, Add	80.08	
For Parallel Blade Damper, Add	24.64	
23 33 13 13-0055 EA 24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	142.61	24.87
For Stainless Steel, Add	88.10	
For Parallel Blade Damper, Add	27.11	
23 33 13 13-0056 EA 24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	151.43	26.83
For Stainless Steel, Add	92.09	
For Parallel Blade Damper, Add	28.34	
23 33 13 13-0057 EA 24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	160.27	28.79
For Stainless Steel, Add	96.10	
For Parallel Blade Damper, Add	29.57	
23 33 13 13-0058 EA 24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	172.18	30.63
For Stainless Steel, Add	104.09	
For Parallel Blade Damper, Add	32.03	
23 33 13 13-0059 EA 24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	189.83	34.53
For Stainless Steel, Add	112.09	
For Parallel Blade Damper, Add	34.49	
23 33 13 13-0060 EA 24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	209.59	38.34
For Stainless Steel, Add	122.80	
For Parallel Blade Damper, Add	37.78	
23 33 13 13-0061 EA 28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	120.81	21.07
For Stainless Steel, Add	74.74	
For Parallel Blade Damper, Add	23.00	
23 33 13 13-0062 EA 28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	130.68	23.03
For Stainless Steel, Add	80.08	
For Parallel Blade Damper, Add	24.64	
23 33 13 13-0063 EA 28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	142.61	24.87
For Stainless Steel, Add	88.10	
For Parallel Blade Damper, Add	27.11	
23 33 13 13-0064 EA 28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.45	26.83
For Stainless Steel, Add	93.42	
For Parallel Blade Damper, Add	28.74	
23 33 13 13-0065 EA 28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	163.34	28.79
For Stainless Steel, Add	100.09	
For Parallel Blade Damper, Add	30.80	
23 33 13 13-0066 EA 28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	174.22	30.63
For Stainless Steel, Add	106.74	
For Parallel Blade Damper, Add	32.84	
23 33 13 13-0067 EA 28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	191.89	34.53
For Stainless Steel, Add	114.76	
For Parallel Blade Damper, Add	35.31	
23 33 13 13-0068 EA 28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	209.59	38.34
For Stainless Steel, Add	122.80	
For Parallel Blade Damper, Add	37.78	
23 33 13 13-0069 EA 28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	227.65	40.29
For Stainless Steel, Add	138.79	
For Parallel Blade Damper, Add	42.70	
23 33 13 13-0070 EA 28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	249.42	44.09
For Stainless Steel, Add	152.13	
For Parallel Blade Damper, Add	46.81	
23 33 13 13-0071 EA 32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	136.85	23.03
For Stainless Steel, Add	88.10	
For Parallel Blade Damper, Add	27.11	
23 33 13 13-0072 EA 32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	144.65	24.87
For Stainless Steel, Add	90.75	
For Parallel Blade Damper, Add	27.92	
23 33 13 13-0073 EA 32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.45	26.83
For Stainless Steel, Add	93.42	
For Parallel Blade Damper, Add	28.74	
23 33 13 13-0074 EA 32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	162.31	28.79
For Stainless Steel, Add	98.75	
For Parallel Blade Damper, Add	30.38	

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23 33 13 13-0075 EA 32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	174.62	30.63
For Stainless Steel, Add	107.26	
For Parallel Blade Damper, Add	33.00	
23 33 13 13-0076 EA 32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	191.89	34.53
For Stainless Steel, Add	114.76	
For Parallel Blade Damper, Add	35.31	
23 33 13 13-0077 EA 32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	211.64	38.34
For Stainless Steel, Add	125.46	
For Parallel Blade Damper, Add	38.60	
23 33 13 13-0078 EA 32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	231.36	42.14
For Stainless Steel, Add	136.14	
For Parallel Blade Damper, Add	41.89	
23 33 13 13-0079 EA 32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	249.42	44.09
For Stainless Steel, Add	152.13	
For Parallel Blade Damper, Add	46.81	
23 33 13 13-0080 EA 32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	273.02	47.20
For Stainless Steel, Add	170.83	
For Parallel Blade Damper, Add	52.56	
23 33 13 13-0081 EA 32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	297.51	49.85
For Stainless Steel, Add	192.19	
For Parallel Blade Damper, Add	59.14	
23 33 13 13-0082 EA 36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	148.76	24.87
For Stainless Steel, Add	96.10	
For Parallel Blade Damper, Add	29.57	
23 33 13 13-0083 EA 36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	158.61	26.83
For Stainless Steel, Add	101.43	
For Parallel Blade Damper, Add	31.21	
23 33 13 13-0084 EA 36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	168.46	28.79
For Stainless Steel, Add	106.74	
For Parallel Blade Damper, Add	32.84	
23 33 13 13-0085 EA 36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	180.39	30.63
For Stainless Steel, Add	114.76	
For Parallel Blade Damper, Add	35.31	
23 33 13 13-0086 EA 36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	194.99	34.53
For Stainless Steel, Add	118.79	
For Parallel Blade Damper, Add	36.55	
23 33 13 13-0087 EA 36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	203.83	36.38
For Stainless Steel, Add	122.80	
For Parallel Blade Damper, Add	37.78	
23 33 13 13-0088 EA 36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	231.36	42.14
For Stainless Steel, Add	136.14	
For Parallel Blade Damper, Add	41.89	
23 33 13 13-0089 EA 36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	253.13	46.05
For Stainless Steel, Add	149.46	
For Parallel Blade Damper, Add	45.99	
23 33 13 13-0090 EA 36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	270.06	47.55
For Stainless Steel, Add	165.49	
For Parallel Blade Damper, Add	50.92	
23 33 13 13-0091 EA 36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	296.83	51.00
For Stainless Steel, Add	186.82	
For Parallel Blade Damper, Add	57.48	
23 33 13 13-0092 EA 36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	319.28	53.66
For Stainless Steel, Add	205.52	
For Parallel Blade Damper, Add	63.24	
23 33 13 13-0093 EA 36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	341.46	55.60
For Stainless Steel, Add	226.88	
For Parallel Blade Damper, Add	69.81	
23 33 13 13-0094 EA 40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	156.55	28.79
For Stainless Steel, Add	98.75	
For Parallel Blade Damper, Add	30.38	
23 33 13 13-0095 EA 40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	170.52	30.63
For Stainless Steel, Add	109.42	
For Parallel Blade Damper, Add	33.67	
23 33 13 13-0096 EA 40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	178.33	32.59
For Stainless Steel, Add	112.09	
For Parallel Blade Damper, Add	34.49	
23 33 13 13-0097 EA 40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	186.15	34.53
For Stainless Steel, Add	114.76	
For Parallel Blade Damper, Add	35.31	
23 33 13 13-0098 EA 40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	204.84	36.38
For Stainless Steel, Add	124.11	
For Parallel Blade Damper, Add	38.19	
23 33 13 13-0099 EA 40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	217.80	38.34
For Stainless Steel, Add	133.47	
For Parallel Blade Damper, Add	41.07	
23 33 13 13-0100 EA 40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	243.27	44.09
For Stainless Steel, Add	144.13	
For Parallel Blade Damper, Add	44.35	
23 33 13 13-0101 EA 40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	263.01	47.90
For Stainless Steel, Add	154.82	
For Parallel Blade Damper, Add	47.64	
23 33 13 13-0102 EA 40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	284.53	51.00
For Stainless Steel, Add	170.83	
For Parallel Blade Damper, Add	52.56	



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23 33 13 13-0103 EA 40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	315.18	53.66
For Stainless Steel, Add	200.19	
For Parallel Blade Damper, Add	61.60	
23 33 13 13-0104 EA 40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	336.68	56.76
For Stainless Steel, Add	216.18	
For Parallel Blade Damper, Add	66.52	
23 33 13 13-0105 EA 40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	363.89	58.26
For Stainless Steel, Add	245.56	
For Parallel Blade Damper, Add	75.56	
23 33 13 13-0106 EA 40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	393.64	61.36
For Stainless Steel, Add	272.26	
For Parallel Blade Damper, Add	83.77	
23 33 13 13-0107 EA 44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	166.42	28.79
For Stainless Steel, Add	104.09	
For Parallel Blade Damper, Add	32.03	
23 33 13 13-0108 EA 44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	180.39	30.63
For Stainless Steel, Add	114.76	
For Parallel Blade Damper, Add	35.31	
23 33 13 13-0109 EA 44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	192.33	32.59
For Stainless Steel, Add	122.80	
For Parallel Blade Damper, Add	37.78	
23 33 13 13-0110 EA 44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	200.12	34.53
For Stainless Steel, Add	125.46	
For Parallel Blade Damper, Add	38.60	
23 33 13 13-0111 EA 44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	214.09	36.38
For Stainless Steel, Add	136.14	
For Parallel Blade Damper, Add	41.89	
23 33 13 13-0112 EA 44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	228.06	38.34
For Stainless Steel, Add	146.81	
For Parallel Blade Damper, Add	45.17	
23 33 13 13-0113 EA 44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	261.36	46.05
For Stainless Steel, Add	160.16	
For Parallel Blade Damper, Add	49.28	
23 33 13 13-0114 EA 44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	283.12	49.85
For Stainless Steel, Add	173.49	
For Parallel Blade Damper, Add	53.38	
23 33 13 13-0115 EA 44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	315.18	53.66
For Stainless Steel, Add	200.19	
For Parallel Blade Damper, Add	61.60	
23 33 13 13-0116 EA 44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	345.16	57.56
For Stainless Steel, Add	224.21	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0117 EA 44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	377.20	61.36
For Stainless Steel, Add	250.89	
For Parallel Blade Damper, Add	77.20	
23 33 13 13-0118 EA 44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	401.43	63.21
For Stainless Steel, Add	274.91	
For Parallel Blade Damper, Add	84.59	
23 33 13 13-0119 EA 44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	425.67	65.16
For Stainless Steel, Add	298.94	
For Parallel Blade Damper, Add	91.98	
23 33 13 13-0120 EA 44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	449.92	67.12
For Stainless Steel, Add	322.97	
For Parallel Blade Damper, Add	99.38	
23 33 13 13-0121 EA 48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	178.33	30.63
For Stainless Steel, Add	112.09	
For Parallel Blade Damper, Add	34.49	
23 33 13 13-0122 EA 48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	192.33	32.59
For Stainless Steel, Add	122.80	
For Parallel Blade Damper, Add	37.78	
23 33 13 13-0123 EA 48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	200.12	34.53
For Stainless Steel, Add	125.46	
For Parallel Blade Damper, Add	38.60	
23 33 13 13-0124 EA 48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	217.80	38.34
For Stainless Steel, Add	133.47	
For Parallel Blade Damper, Add	41.07	
23 33 13 13-0125 EA 48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	237.51	42.14
For Stainless Steel, Add	144.13	
For Parallel Blade Damper, Add	44.35	
23 33 13 13-0126 EA 48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	257.25	46.05
For Stainless Steel, Add	154.82	
For Parallel Blade Damper, Add	47.64	
23 33 13 13-0127 EA 48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	281.08	49.85
For Stainless Steel, Add	170.83	
For Parallel Blade Damper, Add	52.56	
23 33 13 13-0128 EA 48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	304.90	53.66
For Stainless Steel, Add	186.82	
For Parallel Blade Damper, Add	57.48	
23 33 13 13-0129 EA 48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	334.89	57.56
For Stainless Steel, Add	210.86	
For Parallel Blade Damper, Add	64.88	
23 33 13 13-0130 EA 48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	368.99	61.36
For Stainless Steel, Add	240.21	
For Parallel Blade Damper, Add	73.91	

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23 33 13 13-0131 EA 48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	393.24	63.21
For Stainless Steel, Add	264.26	
For Parallel Blade Damper, Add	81.31	
23 33 13 13-0132 EA 48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	423.62	65.16
For Stainless Steel, Add	296.27	
For Parallel Blade Damper, Add	91.16	
23 33 13 13-0133 EA 48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	453.62	68.96
For Stainless Steel, Add	320.29	
For Parallel Blade Damper, Add	98.55	
23 33 13 13-0134 EA 48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	484.01	70.92
For Stainless Steel, Add	352.33	
For Parallel Blade Damper, Add	108.41	
23 33 13 13-0135 EA 48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	517.70	76.68
For Stainless Steel, Add	373.67	
For Parallel Blade Damper, Add	114.98	
23 33 13 13-0136 EA 52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	190.27	32.59
For Stainless Steel, Add	120.12	
For Parallel Blade Damper, Add	36.96	
23 33 13 13-0137 EA 52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	204.22	34.53
For Stainless Steel, Add	130.79	
For Parallel Blade Damper, Add	40.24	
23 33 13 13-0138 EA 52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	223.95	38.34
For Stainless Steel, Add	141.47	
For Parallel Blade Damper, Add	43.53	
23 33 13 13-0139 EA 52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	237.51	42.14
For Stainless Steel, Add	144.13	
For Parallel Blade Damper, Add	44.35	
23 33 13 13-0140 EA 52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.28	46.05
For Stainless Steel, Add	156.16	
For Parallel Blade Damper, Add	48.05	
23 33 13 13-0141 EA 52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	279.03	49.85
For Stainless Steel, Add	168.17	
For Parallel Blade Damper, Add	51.74	
23 33 13 13-0142 EA 52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	302.86	53.66
For Stainless Steel, Add	184.17	
For Parallel Blade Damper, Add	56.67	
23 33 13 13-0143 EA 52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	326.68	57.56
For Stainless Steel, Add	200.19	
For Parallel Blade Damper, Add	61.60	
23 33 13 13-0144 EA 52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	356.68	61.36
For Stainless Steel, Add	224.21	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0145 EA 52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	392.82	65.16
For Stainless Steel, Add	256.23	
For Parallel Blade Damper, Add	78.84	
23 33 13 13-0146 EA 52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	419.10	67.12
For Stainless Steel, Add	282.91	
For Parallel Blade Damper, Add	87.05	
23 33 13 13-0147 EA 52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	451.57	68.96
For Stainless Steel, Add	317.63	
For Parallel Blade Damper, Add	97.73	
23 33 13 13-0148 EA 52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	487.70	72.88
For Stainless Steel, Add	349.64	
For Parallel Blade Damper, Add	107.58	
23 33 13 13-0149 EA 52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	517.70	76.68
For Stainless Steel, Add	373.67	
For Parallel Blade Damper, Add	114.98	
23 33 13 13-0150 EA 52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	559.61	82.43
For Stainless Steel, Add	405.70	
For Parallel Blade Damper, Add	124.83	
23 33 13 13-0151 EA 52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	591.66	86.23
For Stainless Steel, Add	432.41	
For Parallel Blade Damper, Add	133.05	
23 33 13 13-0152 EA 56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	200.12	34.53
For Stainless Steel, Add	125.46	
For Parallel Blade Damper, Add	38.60	
23 33 13 13-0153 EA 56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	221.89	38.34
For Stainless Steel, Add	138.79	
For Parallel Blade Damper, Add	42.70	
23 33 13 13-0154 EA 56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	239.57	42.14
For Stainless Steel, Add	146.81	
For Parallel Blade Damper, Add	45.17	
23 33 13 13-0155 EA 56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	253.13	46.05
For Stainless Steel, Add	149.46	
For Parallel Blade Damper, Add	45.99	
23 33 13 13-0156 EA 56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	275.94	49.85
For Stainless Steel, Add	164.15	
For Parallel Blade Damper, Add	50.51	
23 33 13 13-0157 EA 56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	298.75	53.66
For Stainless Steel, Add	178.83	
For Parallel Blade Damper, Add	55.02	
23 33 13 13-0158 EA 56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	321.54	57.56
For Stainless Steel, Add	193.51	
For Parallel Blade Damper, Add	59.54	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0159 EA 56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	344.35	61.36
For Stainless Steel, Add	208.18	
For Parallel Blade Damper, Add	64.06	
23 33 13 13-0160 EA 56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	380.50	65.16
For Stainless Steel, Add	240.21	
For Parallel Blade Damper, Add	73.91	
23 33 13 13-0161 EA 56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	410.91	67.12
For Stainless Steel, Add	272.26	
For Parallel Blade Damper, Add	83.77	
23 33 13 13-0162 EA 56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	439.25	68.96
For Stainless Steel, Add	301.61	
For Parallel Blade Damper, Add	92.80	
23 33 13 13-0163 EA 56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	479.50	72.88
For Stainless Steel, Add	338.98	
For Parallel Blade Damper, Add	104.30	
23 33 13 13-0164 EA 56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	515.65	76.68
For Stainless Steel, Add	371.01	
For Parallel Blade Damper, Add	114.16	
23 33 13 13-0165 EA 56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	553.85	80.47
For Stainless Steel, Add	405.70	
For Parallel Blade Damper, Add	124.83	
23 33 13 13-0166 EA 56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	585.91	84.39
For Stainless Steel, Add	432.41	
For Parallel Blade Damper, Add	133.05	
23 33 13 13-0167 EA 56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	624.11	88.19
For Stainless Steel, Add	467.10	
For Parallel Blade Damper, Add	143.72	
23 33 13 13-0168 EA 56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	662.32	91.99
For Stainless Steel, Add	501.80	
For Parallel Blade Damper, Add	154.40	
23 33 13 13-0169 EA 60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	217.80	38.34
For Stainless Steel, Add	133.47	
For Parallel Blade Damper, Add	41.07	
23 33 13 13-0170 EA 60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	239.57	42.14
For Stainless Steel, Add	146.81	
For Parallel Blade Damper, Add	45.17	
23 33 13 13-0171 EA 60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	255.18	46.05
For Stainless Steel, Add	152.13	
For Parallel Blade Damper, Add	46.81	
23 33 13 13-0172 EA 60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	268.76	49.85
For Stainless Steel, Add	154.82	
For Parallel Blade Damper, Add	47.64	
23 33 13 13-0173 EA 60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	292.60	53.66
For Stainless Steel, Add	170.83	
For Parallel Blade Damper, Add	52.56	
23 33 13 13-0174 EA 60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	316.40	57.56
For Stainless Steel, Add	186.82	
For Parallel Blade Damper, Add	57.48	
23 33 13 13-0175 EA 60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	341.27	61.36
For Stainless Steel, Add	204.18	
For Parallel Blade Damper, Add	62.82	
23 33 13 13-0176 EA 60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	366.13	65.16
For Stainless Steel, Add	221.53	
For Parallel Blade Damper, Add	68.16	
23 33 13 13-0177 EA 60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.58	67.12
For Stainless Steel, Add	256.23	
For Parallel Blade Damper, Add	78.84	
23 33 13 13-0178 EA 60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	428.97	68.96
For Stainless Steel, Add	288.25	
For Parallel Blade Damper, Add	88.69	
23 33 13 13-0179 EA 60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	467.19	72.88
For Stainless Steel, Add	322.97	
For Parallel Blade Damper, Add	99.38	
23 33 13 13-0180 EA 60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	505.39	76.68
For Stainless Steel, Add	357.67	
For Parallel Blade Damper, Add	110.05	
23 33 13 13-0181 EA 60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	537.42	80.47
For Stainless Steel, Add	384.35	
For Parallel Blade Damper, Add	118.26	
23 33 13 13-0182 EA 60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	581.78	84.39
For Stainless Steel, Add	427.04	
For Parallel Blade Damper, Add	131.40	
23 33 13 13-0183 EA 60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	622.04	88.19
For Stainless Steel, Add	464.41	
For Parallel Blade Damper, Add	142.90	
23 33 13 13-0184 EA 60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	662.32	91.99
For Stainless Steel, Add	501.80	
For Parallel Blade Damper, Add	154.40	
23 33 13 13-0185 EA 60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	698.44	95.91
For Stainless Steel, Add	533.79	
For Parallel Blade Damper, Add	164.24	
23 33 13 13-0186 EA 60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	734.61	99.70
For Stainless Steel, Add	565.85	
For Parallel Blade Damper, Add	174.11	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16 Fire Dampers (23 33 13)		
23 33 13 16-0001 Fire Dampers (23 33 13 16)		
23 33 13 16-0002 SF Fire Damper, Vertical Curtain Type.....	58.80	12.43
For Smoke Damper, Add	18.17	
For Horizontal, Add	3.21	
For Dynamic Damper, Add	4.81	
For 3 Hour Rated, Add	4.28	
23 33 13 16-0003 SF Fire Damper, Vertical Louver Type	70.47	12.43
For Smoke Damper, Add	28.09	
For Horizontal, Add	4.96	
For Dynamic Damper, Add	7.44	
For 3 Hour Rated, Add	6.61	
23 33 13 16-0004 Folding Curtain Fire Dampers (23 33 13 16)		
Note: UL Listed. Air stream galvanized steel construction with fusible link 160 F spring actuated for horizontal mount gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.		
23 33 13 16-0005 EA 6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	54.74	12.78
For Horizontal, Add	2.46	
For Dynamic Damper, Add	3.69	
For 3 Hour Rated, Add	3.28	
For Damper Blades Outside Air Stream, Add	4.92	
23 33 13 16-0006 EA 8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	57.62	13.35
For Horizontal, Add	2.63	
For Dynamic Damper, Add	3.95	
For 3 Hour Rated, Add	3.51	
For Damper Blades Outside Air Stream, Add	5.27	
23 33 13 16-0007 EA 8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	59.03	13.47
For Horizontal, Add	2.81	
For Dynamic Damper, Add	4.22	
For 3 Hour Rated, Add	3.75	
For Damper Blades Outside Air Stream, Add	5.62	
23 33 13 16-0008 EA 10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	59.03	13.47
For Horizontal, Add	2.81	
For Dynamic Damper, Add	4.22	
For 3 Hour Rated, Add	3.75	
For Damper Blades Outside Air Stream, Add	5.62	
23 33 13 16-0009 EA 10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	61.36	13.82
For Horizontal, Add	2.99	
For Dynamic Damper, Add	4.48	
For 3 Hour Rated, Add	3.98	
For Damper Blades Outside Air Stream, Add	5.97	
23 33 13 16-0010 EA 10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	68.30	15.31
For Horizontal, Add	3.34	
For Dynamic Damper, Add	5.01	
For 3 Hour Rated, Add	4.45	
For Damper Blades Outside Air Stream, Add	6.68	
23 33 13 16-0011 EA 12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	61.36	13.82
For Horizontal, Add	2.99	
For Dynamic Damper, Add	4.48	
For 3 Hour Rated, Add	3.98	
For Damper Blades Outside Air Stream, Add	5.97	
23 33 13 16-0012 EA 12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	66.00	14.62
For Horizontal, Add	3.34	
For Dynamic Damper, Add	5.01	
For 3 Hour Rated, Add	4.45	
For Damper Blades Outside Air Stream, Add	6.68	
23 33 13 16-0013 EA 12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	69.47	15.31
For Horizontal, Add	3.51	
For Dynamic Damper, Add	5.27	
For 3 Hour Rated, Add	4.68	
For Damper Blades Outside Air Stream, Add	7.03	
23 33 13 16-0014 EA 12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	76.41	17.27
For Horizontal, Add	3.69	
For Dynamic Damper, Add	5.54	
For 3 Hour Rated, Add	4.92	
For Damper Blades Outside Air Stream, Add	7.38	
23 33 13 16-0015 EA 14" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	65.42	14.62
For Horizontal, Add	3.25	
For Dynamic Damper, Add	4.88	
For 3 Hour Rated, Add	4.33	
For Damper Blades Outside Air Stream, Add	6.50	
23 33 13 16-0016 EA 14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	69.47	15.31
For Horizontal, Add	3.51	
For Dynamic Damper, Add	5.27	
For 3 Hour Rated, Add	4.68	
For Damper Blades Outside Air Stream, Add	7.03	
23 33 13 16-0017 EA 14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	72.95	16.12
For Horizontal, Add	3.69	
For Dynamic Damper, Add	5.54	
For 3 Hour Rated, Add	4.92	
For Damper Blades Outside Air Stream, Add	7.38	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0018	EA	14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	77.58	17.27	
		For Horizontal, Add	3.87		
		For Dynamic Damper, Add	5.80		
		For 3 Hour Rated, Add	5.15		
		For Damper Blades Outside Air Stream, Add	7.73		
23 33 13 16-0019	EA	14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	86.26	19.23	
		For Horizontal, Add	4.31		
		For Dynamic Damper, Add	6.46		
		For 3 Hour Rated, Add	5.74		
		For Damper Blades Outside Air Stream, Add	8.61		
23 33 13 16-0020	EA	16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	69.47	15.31	
		For Horizontal, Add	3.51		
		For Dynamic Damper, Add	5.27		
		For 3 Hour Rated, Add	4.68		
		For Damper Blades Outside Air Stream, Add	7.03		
23 33 13 16-0021	EA	16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	74.11	16.47	
		For Horizontal, Add	3.69		
		For Dynamic Damper, Add	5.54		
		For 3 Hour Rated, Add	4.92		
		For Damper Blades Outside Air Stream, Add	7.38		
23 33 13 16-0022	EA	16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	79.88	18.08	
		For Horizontal, Add	3.87		
		For Dynamic Damper, Add	5.80		
		For 3 Hour Rated, Add	5.15		
		For Damper Blades Outside Air Stream, Add	7.73		
23 33 13 16-0023	EA	16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	84.49	19.23	
		For Horizontal, Add	4.04		
		For Dynamic Damper, Add	6.06		
		For 3 Hour Rated, Add	5.39		
		For Damper Blades Outside Air Stream, Add	8.08		
23 33 13 16-0024	EA	16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	93.19	21.07	
		For Horizontal, Add	4.48		
		For Dynamic Damper, Add	6.72		
		For 3 Hour Rated, Add	5.97		
		For Damper Blades Outside Air Stream, Add	8.96		
23 33 13 16-0025	EA	16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.88	23.03	
		For Horizontal, Add	4.92		
		For Dynamic Damper, Add	7.38		
		For 3 Hour Rated, Add	6.56		
		For Damper Blades Outside Air Stream, Add	9.84		
23 33 13 16-0026	EA	18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	72.95	16.12	
		For Horizontal, Add	3.69		
		For Dynamic Damper, Add	5.54		
		For 3 Hour Rated, Add	4.92		
		For Damper Blades Outside Air Stream, Add	7.38		
23 33 13 16-0027	EA	18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	78.16	17.27	
		For Horizontal, Add	3.95		
		For Dynamic Damper, Add	5.93		
		For 3 Hour Rated, Add	5.27		
		For Damper Blades Outside Air Stream, Add	7.91		
23 33 13 16-0028	EA	18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	85.68	19.23	
		For Horizontal, Add	4.22		
		For Dynamic Damper, Add	6.33		
		For 3 Hour Rated, Add	5.62		
		For Damper Blades Outside Air Stream, Add	8.44		
23 33 13 16-0029	EA	18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	94.36	21.07	
		For Horizontal, Add	4.66		
		For Dynamic Damper, Add	6.98		
		For 3 Hour Rated, Add	6.21		
		For Damper Blades Outside Air Stream, Add	9.31		
23 33 13 16-0030	EA	18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	102.46	23.03	
		For Horizontal, Add	5.01		
		For Dynamic Damper, Add	7.51		
		For 3 Hour Rated, Add	6.68		
		For Damper Blades Outside Air Stream, Add	10.01		
23 33 13 16-0031	EA	18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	111.15	24.87	
		For Horizontal, Add	5.45		
		For Dynamic Damper, Add	8.17		
		For 3 Hour Rated, Add	7.26		
		For Damper Blades Outside Air Stream, Add	10.89		
23 33 13 16-0032	EA	18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	118.66	26.83	
		For Horizontal, Add	5.71		
		For Dynamic Damper, Add	8.57		
		For 3 Hour Rated, Add	7.61		
		For Damper Blades Outside Air Stream, Add	11.42		
23 33 13 16-0033	EA	20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	77.58	17.27	
		For Horizontal, Add	3.87		
		For Dynamic Damper, Add	5.80		
		For 3 Hour Rated, Add	5.15		
		For Damper Blades Outside Air Stream, Add	7.73		
23 33 13 16-0034	EA	20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	85.67	19.23	
		For Horizontal, Add	4.22		
		For Dynamic Damper, Add	6.32		
		For 3 Hour Rated, Add	5.62		
		For Damper Blades Outside Air Stream, Add	8.43		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0035 EA 20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	93.77	21.07
For Horizontal, Add	4.57	
For Dynamic Damper, Add	6.85	
For 3 Hour Rated, Add	6.09	
For Damper Blades Outside Air Stream, Add	9.14	
23 33 13 16-0036 EA 20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.23	23.03
For Horizontal, Add	5.27	
For Dynamic Damper, Add	7.91	
For 3 Hour Rated, Add	7.03	
For Damper Blades Outside Air Stream, Add	10.55	
23 33 13 16-0037 EA 20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	111.74	24.87
For Horizontal, Add	5.54	
For Dynamic Damper, Add	8.30	
For 3 Hour Rated, Add	7.38	
For Damper Blades Outside Air Stream, Add	11.07	
23 33 13 16-0038 EA 20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	119.25	26.83
For Horizontal, Add	5.80	
For Dynamic Damper, Add	8.70	
For 3 Hour Rated, Add	7.73	
For Damper Blades Outside Air Stream, Add	11.60	
23 33 13 16-0039 EA 20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	127.35	28.79
For Horizontal, Add	6.15	
For Dynamic Damper, Add	9.23	
For 3 Hour Rated, Add	8.20	
For Damper Blades Outside Air Stream, Add	12.30	
23 33 13 16-0040 EA 20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	135.44	30.63
For Horizontal, Add	6.50	
For Dynamic Damper, Add	9.75	
For 3 Hour Rated, Add	8.67	
For Damper Blades Outside Air Stream, Add	13.00	
23 33 13 16-0041 EA 24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	86.84	19.23
For Horizontal, Add	4.39	
For Dynamic Damper, Add	6.59	
For 3 Hour Rated, Add	5.86	
For Damper Blades Outside Air Stream, Add	8.78	
23 33 13 16-0042 EA 24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	96.12	21.07
For Horizontal, Add	4.92	
For Dynamic Damper, Add	7.38	
For 3 Hour Rated, Add	6.56	
For Damper Blades Outside Air Stream, Add	9.84	
23 33 13 16-0043 EA 24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.23	23.03
For Horizontal, Add	5.27	
For Dynamic Damper, Add	7.91	
For 3 Hour Rated, Add	7.03	
For Damper Blades Outside Air Stream, Add	10.55	
23 33 13 16-0044 EA 24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.50	24.87
For Horizontal, Add	5.80	
For Dynamic Damper, Add	8.70	
For 3 Hour Rated, Add	7.73	
For Damper Blades Outside Air Stream, Add	11.60	
23 33 13 16-0045 EA 24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	121.00	26.83
For Horizontal, Add	6.06	
For Dynamic Damper, Add	9.09	
For 3 Hour Rated, Add	8.08	
For Damper Blades Outside Air Stream, Add	12.12	
23 33 13 16-0046 EA 24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	128.52	28.79
For Horizontal, Add	6.33	
For Dynamic Damper, Add	9.49	
For 3 Hour Rated, Add	8.43	
For Damper Blades Outside Air Stream, Add	12.65	
23 33 13 16-0047 EA 24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	137.79	30.63
For Horizontal, Add	6.85	
For Dynamic Damper, Add	10.28	
For 3 Hour Rated, Add	9.14	
For Damper Blades Outside Air Stream, Add	13.70	
23 33 13 16-0048 EA 24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	152.80	34.53
For Horizontal, Add	7.38	
For Dynamic Damper, Add	11.07	
For 3 Hour Rated, Add	9.84	
For Damper Blades Outside Air Stream, Add	14.76	
23 33 13 16-0049 EA 24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	169.02	38.34
For Horizontal, Add	8.08	
For Dynamic Damper, Add	12.13	
For 3 Hour Rated, Add	10.78	
For Damper Blades Outside Air Stream, Add	16.17	
23 33 13 16-0050 EA 28" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	96.12	21.07
For Horizontal, Add	4.92	
For Dynamic Damper, Add	7.38	
For 3 Hour Rated, Add	6.56	
For Damper Blades Outside Air Stream, Add	9.84	
23 33 13 16-0051 EA 28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.23	23.03
For Horizontal, Add	5.27	
For Dynamic Damper, Add	7.91	
For 3 Hour Rated, Add	7.03	
For Damper Blades Outside Air Stream, Add	10.55	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0052	EA		28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.50	24.87
			For Horizontal, Add	5.80	
			For Dynamic Damper, Add	8.70	
			For 3 Hour Rated, Add	7.73	
			For Damper Blades Outside Air Stream, Add	11.60	
23 33 13 16-0053	EA		28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	121.59	26.83
			For Horizontal, Add	6.15	
			For Dynamic Damper, Add	9.23	
			For 3 Hour Rated, Add	8.20	
			For Damper Blades Outside Air Stream, Add	12.30	
23 33 13 16-0054	EA		28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	130.28	28.79
			For Horizontal, Add	6.59	
			For Dynamic Damper, Add	9.88	
			For 3 Hour Rated, Add	8.79	
			For Damper Blades Outside Air Stream, Add	13.18	
23 33 13 16-0055	EA		28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	138.96	30.63
			For Horizontal, Add	7.03	
			For Dynamic Damper, Add	10.54	
			For 3 Hour Rated, Add	9.37	
			For Damper Blades Outside Air Stream, Add	14.06	
23 33 13 16-0056	EA		28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	153.98	34.53
			For Horizontal, Add	7.56	
			For Dynamic Damper, Add	11.33	
			For 3 Hour Rated, Add	10.07	
			For Damper Blades Outside Air Stream, Add	15.11	
23 33 13 16-0057	EA		28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	169.02	38.34
			For Horizontal, Add	8.08	
			For Dynamic Damper, Add	12.13	
			For 3 Hour Rated, Add	10.78	
			For Damper Blades Outside Air Stream, Add	16.17	
23 33 13 16-0058	EA		28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	181.80	40.29
			For Horizontal, Add	9.14	
			For Dynamic Damper, Add	13.70	
			For 3 Hour Rated, Add	12.18	
			For Damper Blades Outside Air Stream, Add	18.27	
23 33 13 16-0059	EA		28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.17	44.09
			For Horizontal, Add	10.02	
			For Dynamic Damper, Add	15.02	
			For 3 Hour Rated, Add	13.35	
			For Damper Blades Outside Air Stream, Add	20.03	
23 33 13 16-0060	EA		32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	107.74	23.03
			For Horizontal, Add	5.80	
			For Dynamic Damper, Add	8.70	
			For 3 Hour Rated, Add	7.73	
			For Damper Blades Outside Air Stream, Add	11.60	
23 33 13 16-0061	EA		32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	114.66	24.87
			For Horizontal, Add	5.97	
			For Dynamic Damper, Add	8.96	
			For 3 Hour Rated, Add	7.96	
			For Damper Blades Outside Air Stream, Add	11.95	
23 33 13 16-0062	EA		32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	121.59	26.83
			For Horizontal, Add	6.15	
			For Dynamic Damper, Add	9.23	
			For 3 Hour Rated, Add	8.20	
			For Damper Blades Outside Air Stream, Add	12.30	
23 33 13 16-0063	EA		32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	129.68	28.79
			For Horizontal, Add	6.50	
			For Dynamic Damper, Add	9.75	
			For 3 Hour Rated, Add	8.67	
			For Damper Blades Outside Air Stream, Add	13.00	
23 33 13 16-0064	EA		32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	139.18	30.63
			For Horizontal, Add	7.06	
			For Dynamic Damper, Add	10.59	
			For 3 Hour Rated, Add	9.41	
			For Damper Blades Outside Air Stream, Add	14.12	
23 33 13 16-0065	EA		32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	153.98	34.53
			For Horizontal, Add	7.56	
			For Dynamic Damper, Add	11.33	
			For 3 Hour Rated, Add	10.07	
			For Damper Blades Outside Air Stream, Add	15.11	
23 33 13 16-0066	EA		32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.19	38.34
			For Horizontal, Add	8.26	
			For Dynamic Damper, Add	12.39	
			For 3 Hour Rated, Add	11.01	
			For Damper Blades Outside Air Stream, Add	16.52	
23 33 13 16-0067	EA		32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	186.38	42.14
			For Horizontal, Add	8.96	
			For Dynamic Damper, Add	13.44	
			For 3 Hour Rated, Add	11.95	
			For Damper Blades Outside Air Stream, Add	17.92	
23 33 13 16-0068	EA		32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.17	44.09
			For Horizontal, Add	10.02	
			For Dynamic Damper, Add	15.02	
			For 3 Hour Rated, Add	13.35	
			For Damper Blades Outside Air Stream, Add	20.03	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0069 EA 32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	216.58	47.20
For Horizontal, Add	11.25	
For Dynamic Damper, Add	16.87	
For 3 Hour Rated, Add	14.99	
For Damper Blades Outside Air Stream, Add	22.49	
23 33 13 16-0070 EA 32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	234.01	49.85
For Horizontal, Add	12.65	
For Dynamic Damper, Add	18.98	
For 3 Hour Rated, Add	16.87	
For Damper Blades Outside Air Stream, Add	25.30	
23 33 13 16-0071 EA 36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	117.01	24.87
For Horizontal, Add	6.33	
For Dynamic Damper, Add	9.49	
For 3 Hour Rated, Add	8.43	
For Damper Blades Outside Air Stream, Add	12.65	
23 33 13 16-0072 EA 36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	125.10	26.83
For Horizontal, Add	6.68	
For Dynamic Damper, Add	10.01	
For 3 Hour Rated, Add	8.90	
For Damper Blades Outside Air Stream, Add	13.35	
23 33 13 16-0073 EA 36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	133.20	28.79
For Horizontal, Add	7.03	
For Dynamic Damper, Add	10.54	
For 3 Hour Rated, Add	9.37	
For Damper Blades Outside Air Stream, Add	14.06	
23 33 13 16-0074 EA 36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	142.48	30.63
For Horizontal, Add	7.56	
For Dynamic Damper, Add	11.33	
For 3 Hour Rated, Add	10.07	
For Damper Blades Outside Air Stream, Add	15.11	
23 33 13 16-0075 EA 36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	155.74	34.53
For Horizontal, Add	7.82	
For Dynamic Damper, Add	11.73	
For 3 Hour Rated, Add	10.43	
For Damper Blades Outside Air Stream, Add	15.64	
23 33 13 16-0076 EA 36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	163.26	36.38
For Horizontal, Add	8.08	
For Dynamic Damper, Add	12.13	
For 3 Hour Rated, Add	10.78	
For Damper Blades Outside Air Stream, Add	16.17	
23 33 13 16-0077 EA 36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	186.38	42.14
For Horizontal, Add	8.96	
For Dynamic Damper, Add	13.44	
For 3 Hour Rated, Add	11.95	
For Damper Blades Outside Air Stream, Add	17.92	
23 33 13 16-0078 EA 36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	203.75	46.05
For Horizontal, Add	9.84	
For Dynamic Damper, Add	14.76	
For 3 Hour Rated, Add	13.12	
For Damper Blades Outside Air Stream, Add	19.68	
23 33 13 16-0079 EA 36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	184.26	47.55
For Horizontal, Add	6.23	
For Dynamic Damper, Add	9.34	
For 3 Hour Rated, Add	8.30	
For Damper Blades Outside Air Stream, Add	12.45	
23 33 13 16-0080 EA 36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	235.11	51.00
For Horizontal, Add	12.30	
For Dynamic Damper, Add	18.45	
For 3 Hour Rated, Add	16.40	
For Damper Blades Outside Air Stream, Add	24.60	
23 33 13 16-0081 EA 36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	251.38	53.66
For Horizontal, Add	13.53	
For Dynamic Damper, Add	20.29	
For 3 Hour Rated, Add	18.04	
For Damper Blades Outside Air Stream, Add	27.06	
23 33 13 16-0082 EA 36" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.50	55.60
For Horizontal, Add	14.93	
For Dynamic Damper, Add	22.40	
For 3 Hour Rated, Add	19.91	
For Damper Blades Outside Air Stream, Add	29.87	
23 33 13 16-0083 EA 40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	123.92	28.79
For Horizontal, Add	6.50	
For Dynamic Damper, Add	9.75	
For 3 Hour Rated, Add	8.67	
For Damper Blades Outside Air Stream, Add	13.00	
23 33 13 16-0084 EA 40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	134.37	30.63
For Horizontal, Add	7.20	
For Dynamic Damper, Add	10.80	
For 3 Hour Rated, Add	9.60	
For Damper Blades Outside Air Stream, Add	14.41	
23 33 13 16-0085 EA 40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	141.30	32.59
For Horizontal, Add	7.38	
For Dynamic Damper, Add	11.07	
For 3 Hour Rated, Add	9.84	
For Damper Blades Outside Air Stream, Add	14.76	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0086	EA	40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	148.24	34.53	
		For Horizontal, Add	7.56		
		For Dynamic Damper, Add	11.33		
		For 3 Hour Rated, Add	10.07		
		For Damper Blades Outside Air Stream, Add	15.11		
23 33 13 16-0087	EA	40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	163.84	36.38	
		For Horizontal, Add	8.17		
		For Dynamic Damper, Add	12.26		
		For 3 Hour Rated, Add	10.89		
		For Damper Blades Outside Air Stream, Add	16.34		
23 33 13 16-0088	EA	40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	173.70	38.34	
		For Horizontal, Add	8.79		
		For Dynamic Damper, Add	13.18		
		For 3 Hour Rated, Add	11.71		
		For Damper Blades Outside Air Stream, Add	17.57		
23 33 13 16-0089	EA	40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	195.65	44.09	
		For Horizontal, Add	9.49		
		For Dynamic Damper, Add	14.23		
		For 3 Hour Rated, Add	12.65		
		For Damper Blades Outside Air Stream, Add	18.98		
23 33 13 16-0090	EA	40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	211.86	47.90	
		For Horizontal, Add	10.19		
		For Dynamic Damper, Add	15.29		
		For 3 Hour Rated, Add	13.59		
		For Damper Blades Outside Air Stream, Add	20.38		
23 33 13 16-0091	EA	40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	228.09	51.00	
		For Horizontal, Add	11.25		
		For Dynamic Damper, Add	16.87		
		For 3 Hour Rated, Add	14.99		
		For Damper Blades Outside Air Stream, Add	22.49		
23 33 13 16-0092	EA	40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	249.04	53.66	
		For Horizontal, Add	13.18		
		For Dynamic Damper, Add	19.77		
		For 3 Hour Rated, Add	17.57		
		For Damper Blades Outside Air Stream, Add	26.36		
23 33 13 16-0093	EA	40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	265.26	56.76	
		For Horizontal, Add	14.23		
		For Dynamic Damper, Add	21.35		
		For 3 Hour Rated, Add	18.97		
		For Damper Blades Outside Air Stream, Add	28.46		
23 33 13 16-0094	EA	40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	282.76	58.26	
		For Horizontal, Add	16.16		
		For Dynamic Damper, Add	24.25		
		For 3 Hour Rated, Add	21.55		
		For Damper Blades Outside Air Stream, Add	32.33		
23 33 13 16-0095	EA	40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	303.69	61.36	
		For Horizontal, Add	17.92		
		For Dynamic Damper, Add	26.88		
		For 3 Hour Rated, Add	23.90		
		For Damper Blades Outside Air Stream, Add	35.84		
23 33 13 16-0096	EA	44" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	132.03	28.79	
		For Horizontal, Add	6.85		
		For Dynamic Damper, Add	10.28		
		For 3 Hour Rated, Add	9.14		
		For Damper Blades Outside Air Stream, Add	13.70		
23 33 13 16-0097	EA	44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	142.48	30.63	
		For Horizontal, Add	7.56		
		For Dynamic Damper, Add	11.33		
		For 3 Hour Rated, Add	10.07		
		For Damper Blades Outside Air Stream, Add	15.11		
23 33 13 16-0098	EA	44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	151.76	32.59	
		For Horizontal, Add	8.08		
		For Dynamic Damper, Add	12.13		
		For 3 Hour Rated, Add	10.78		
		For Damper Blades Outside Air Stream, Add	16.17		
23 33 13 16-0099	EA	44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	158.67	34.53	
		For Horizontal, Add	8.26		
		For Dynamic Damper, Add	12.39		
		For 3 Hour Rated, Add	11.01		
		For Damper Blades Outside Air Stream, Add	16.52		
23 33 13 16-0100	EA	44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	169.11	36.38	
		For Horizontal, Add	8.96		
		For Dynamic Damper, Add	13.44		
		For 3 Hour Rated, Add	11.95		
		For Damper Blades Outside Air Stream, Add	17.92		
23 33 13 16-0101	EA	44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.56	38.34	
		For Horizontal, Add	9.66		
		For Dynamic Damper, Add	14.50		
		For 3 Hour Rated, Add	12.89		
		For Damper Blades Outside Air Stream, Add	19.33		
23 33 13 16-0102	EA	44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	208.45	46.05	
		For Horizontal, Add	10.54		
		For Dynamic Damper, Add	15.82		
		For 3 Hour Rated, Add	14.06		
		For Damper Blades Outside Air Stream, Add	21.09		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0103 EA 44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	225.80	49.85
For Horizontal, Add	11.42	
For Dynamic Damper, Add	17.13	
For 3 Hour Rated, Add	15.23	
For Damper Blades Outside Air Stream, Add	22.84	
23 33 13 16-0104 EA 44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	249.04	53.66
For Horizontal, Add	13.18	
For Dynamic Damper, Add	19.77	
For 3 Hour Rated, Add	17.57	
For Damper Blades Outside Air Stream, Add	26.36	
23 33 13 16-0105 EA 44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	271.08	57.56
For Horizontal, Add	14.76	
For Dynamic Damper, Add	22.14	
For 3 Hour Rated, Add	19.68	
For Damper Blades Outside Air Stream, Add	29.52	
23 33 13 16-0106 EA 44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	294.31	61.36
For Horizontal, Add	16.52	
For Dynamic Damper, Add	24.77	
For 3 Hour Rated, Add	22.02	
For Damper Blades Outside Air Stream, Add	33.03	
23 33 13 16-0107 EA 44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	310.60	63.21
For Horizontal, Add	18.10	
For Dynamic Damper, Add	27.14	
For 3 Hour Rated, Add	24.13	
For Damper Blades Outside Air Stream, Add	36.19	
23 33 13 16-0108 EA 44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	326.90	65.16
For Horizontal, Add	19.68	
For Dynamic Damper, Add	29.52	
For 3 Hour Rated, Add	26.24	
For Damper Blades Outside Air Stream, Add	39.35	
23 33 13 16-0109 EA 44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	343.22	67.12
For Horizontal, Add	21.26	
For Dynamic Damper, Add	31.89	
For 3 Hour Rated, Add	28.35	
For Damper Blades Outside Air Stream, Add	42.52	
23 33 13 16-0110 EA 48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	141.30	30.63
For Horizontal, Add	7.38	
For Dynamic Damper, Add	11.07	
For 3 Hour Rated, Add	9.84	
For Damper Blades Outside Air Stream, Add	14.76	
23 33 13 16-0111 EA 48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	151.76	32.59
For Horizontal, Add	8.08	
For Dynamic Damper, Add	12.13	
For 3 Hour Rated, Add	10.78	
For Damper Blades Outside Air Stream, Add	16.17	
23 33 13 16-0112 EA 48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	158.67	34.53
For Horizontal, Add	8.26	
For Dynamic Damper, Add	12.39	
For 3 Hour Rated, Add	11.01	
For Damper Blades Outside Air Stream, Add	16.52	
23 33 13 16-0113 EA 48" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	173.70	38.34
For Horizontal, Add	8.79	
For Dynamic Damper, Add	13.18	
For 3 Hour Rated, Add	11.71	
For Damper Blades Outside Air Stream, Add	17.57	
23 33 13 16-0114 EA 48" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	189.89	42.14
For Horizontal, Add	9.49	
For Dynamic Damper, Add	14.23	
For 3 Hour Rated, Add	12.65	
For Damper Blades Outside Air Stream, Add	18.98	
23 33 13 16-0115 EA 48" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	206.10	46.05
For Horizontal, Add	10.19	
For Dynamic Damper, Add	15.29	
For 3 Hour Rated, Add	13.59	
For Damper Blades Outside Air Stream, Add	20.38	
23 33 13 16-0116 EA 48" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	224.64	49.85
For Horizontal, Add	11.25	
For Dynamic Damper, Add	16.87	
For 3 Hour Rated, Add	14.99	
For Damper Blades Outside Air Stream, Add	22.49	
23 33 13 16-0117 EA 48" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.18	53.66
For Horizontal, Add	12.30	
For Dynamic Damper, Add	18.45	
For 3 Hour Rated, Add	16.40	
For Damper Blades Outside Air Stream, Add	24.60	
23 33 13 16-0118 EA 48" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	265.22	57.56
For Horizontal, Add	13.88	
For Dynamic Damper, Add	20.82	
For 3 Hour Rated, Add	18.51	
For Damper Blades Outside Air Stream, Add	27.76	
23 33 13 16-0119 EA 48" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	289.62	61.36
For Horizontal, Add	15.81	
For Dynamic Damper, Add	23.72	
For 3 Hour Rated, Add	21.08	
For Damper Blades Outside Air Stream, Add	31.62	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

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Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0120 EA 48" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	305.93	63.21
For Horizontal, Add	17.40	
For Dynamic Damper, Add	26.09	
For 3 Hour Rated, Add	23.19	
For Damper Blades Outside Air Stream, Add	34.79	
23 33 13 16-0121 EA 48" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	325.73	65.16
For Horizontal, Add	19.50	
For Dynamic Damper, Add	29.25	
For 3 Hour Rated, Add	26.00	
For Damper Blades Outside Air Stream, Add	39.00	
23 33 13 16-0122 EA 48" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	347.80	68.96
For Horizontal, Add	21.08	
For Dynamic Damper, Add	31.63	
For 3 Hour Rated, Add	28.11	
For Damper Blades Outside Air Stream, Add	42.17	
23 33 13 16-0123 EA 48" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	367.61	70.92
For Horizontal, Add	23.19	
For Dynamic Damper, Add	34.79	
For 3 Hour Rated, Add	30.92	
For Damper Blades Outside Air Stream, Add	46.39	
23 33 13 16-0124 EA 48" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	394.24	76.68
For Horizontal, Add	24.60	
For Dynamic Damper, Add	36.90	
For 3 Hour Rated, Add	32.80	
For Damper Blades Outside Air Stream, Add	49.19	
23 33 13 16-0125 EA 52" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	150.58	32.59
For Horizontal, Add	7.91	
For Dynamic Damper, Add	11.86	
For 3 Hour Rated, Add	10.54	
For Damper Blades Outside Air Stream, Add	15.81	
23 33 13 16-0126 EA 52" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	161.01	34.53
For Horizontal, Add	8.61	
For Dynamic Damper, Add	12.92	
For 3 Hour Rated, Add	11.48	
For Damper Blades Outside Air Stream, Add	17.22	
23 33 13 16-0127 EA 52" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.21	38.34
For Horizontal, Add	9.31	
For Dynamic Damper, Add	13.97	
For 3 Hour Rated, Add	12.42	
For Damper Blades Outside Air Stream, Add	18.62	
23 33 13 16-0128 EA 52" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	189.89	42.14
For Horizontal, Add	9.49	
For Dynamic Damper, Add	14.23	
For 3 Hour Rated, Add	12.65	
For Damper Blades Outside Air Stream, Add	18.98	
23 33 13 16-0129 EA 52" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	206.69	46.05
For Horizontal, Add	10.28	
For Dynamic Damper, Add	15.42	
For 3 Hour Rated, Add	13.71	
For Damper Blades Outside Air Stream, Add	20.56	
23 33 13 16-0130 EA 52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	223.47	49.85
For Horizontal, Add	11.07	
For Dynamic Damper, Add	16.61	
For 3 Hour Rated, Add	14.76	
For Damper Blades Outside Air Stream, Add	22.14	
23 33 13 16-0131 EA 52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	242.02	53.66
For Horizontal, Add	12.12	
For Dynamic Damper, Add	18.19	
For 3 Hour Rated, Add	16.17	
For Damper Blades Outside Air Stream, Add	24.25	
23 33 13 16-0132 EA 52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	260.54	57.56
For Horizontal, Add	13.18	
For Dynamic Damper, Add	19.77	
For 3 Hour Rated, Add	17.57	
For Damper Blades Outside Air Stream, Add	26.36	
23 33 13 16-0133 EA 52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	282.60	61.36
For Horizontal, Add	14.76	
For Dynamic Damper, Add	22.14	
For 3 Hour Rated, Add	19.68	
For Damper Blades Outside Air Stream, Add	29.52	
23 33 13 16-0134 EA 52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	308.17	65.16
For Horizontal, Add	16.87	
For Dynamic Damper, Add	25.30	
For 3 Hour Rated, Add	22.49	
For Damper Blades Outside Air Stream, Add	33.74	
23 33 13 16-0135 EA 52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	325.63	67.12
For Horizontal, Add	18.62	
For Dynamic Damper, Add	27.93	
For 3 Hour Rated, Add	24.83	
For Damper Blades Outside Air Stream, Add	37.25	
23 33 13 16-0136 EA 52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	346.63	68.96
For Horizontal, Add	20.91	
For Dynamic Damper, Add	31.36	
For 3 Hour Rated, Add	27.88	
For Damper Blades Outside Air Stream, Add	41.82	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0137 EA 52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	372.18	72.88
For Horizontal, Add	23.01	
For Dynamic Damper, Add	34.52	
For 3 Hour Rated, Add	30.69	
For Damper Blades Outside Air Stream, Add	46.03	
23 33 13 16-0138 EA 52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	394.24	76.68
For Horizontal, Add	24.60	
For Dynamic Damper, Add	36.90	
For 3 Hour Rated, Add	32.80	
For Damper Blades Outside Air Stream, Add	49.19	
23 33 13 16-0139 EA 52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	425.57	82.43
For Horizontal, Add	26.71	
For Dynamic Damper, Add	40.06	
For 3 Hour Rated, Add	35.61	
For Damper Blades Outside Air Stream, Add	53.41	
23 33 13 16-0140 EA 52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	448.79	86.23
For Horizontal, Add	28.46	
For Dynamic Damper, Add	42.69	
For 3 Hour Rated, Add	37.95	
For Damper Blades Outside Air Stream, Add	56.93	
23 33 13 16-0141 EA 56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	158.67	34.53
For Horizontal, Add	8.26	
For Dynamic Damper, Add	12.39	
For 3 Hour Rated, Add	11.01	
For Damper Blades Outside Air Stream, Add	16.52	
23 33 13 16-0142 EA 56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	176.04	38.34
For Horizontal, Add	9.14	
For Dynamic Damper, Add	13.70	
For 3 Hour Rated, Add	12.18	
For Damper Blades Outside Air Stream, Add	18.27	
23 33 13 16-0143 EA 56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	191.07	42.14
For Horizontal, Add	9.66	
For Dynamic Damper, Add	14.50	
For 3 Hour Rated, Add	12.89	
For Damper Blades Outside Air Stream, Add	19.33	
23 33 13 16-0144 EA 56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	203.75	46.05
For Horizontal, Add	9.84	
For Dynamic Damper, Add	14.76	
For 3 Hour Rated, Add	13.12	
For Damper Blades Outside Air Stream, Add	19.68	
23 33 13 16-0145 EA 56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	221.71	49.85
For Horizontal, Add	10.81	
For Dynamic Damper, Add	16.21	
For 3 Hour Rated, Add	14.41	
For Damper Blades Outside Air Stream, Add	21.61	
23 33 13 16-0146 EA 56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	239.67	53.66
For Horizontal, Add	11.77	
For Dynamic Damper, Add	17.66	
For 3 Hour Rated, Add	15.70	
For Damper Blades Outside Air Stream, Add	23.54	
23 33 13 16-0147 EA 56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	257.61	57.56
For Horizontal, Add	12.74	
For Dynamic Damper, Add	19.11	
For 3 Hour Rated, Add	16.98	
For Damper Blades Outside Air Stream, Add	25.48	
23 33 13 16-0148 EA 56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	275.57	61.36
For Horizontal, Add	13.70	
For Dynamic Damper, Add	20.56	
For 3 Hour Rated, Add	18.27	
For Damper Blades Outside Air Stream, Add	27.41	
23 33 13 16-0149 EA 56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	301.13	65.16
For Horizontal, Add	15.81	
For Dynamic Damper, Add	23.72	
For 3 Hour Rated, Add	21.08	
For Damper Blades Outside Air Stream, Add	31.62	
23 33 13 16-0150 EA 56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	320.96	67.12
For Horizontal, Add	17.92	
For Dynamic Damper, Add	26.88	
For 3 Hour Rated, Add	23.90	
For Damper Blades Outside Air Stream, Add	35.84	
23 33 13 16-0151 EA 56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	339.60	68.96
For Horizontal, Add	19.85	
For Dynamic Damper, Add	29.78	
For 3 Hour Rated, Add	26.47	
For Damper Blades Outside Air Stream, Add	39.71	
23 33 13 16-0152 EA 56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	367.51	72.88
For Horizontal, Add	22.31	
For Dynamic Damper, Add	33.47	
For 3 Hour Rated, Add	29.75	
For Damper Blades Outside Air Stream, Add	44.63	
23 33 13 16-0153 EA 56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	393.07	76.68
For Horizontal, Add	24.42	
For Dynamic Damper, Add	36.63	
For 3 Hour Rated, Add	32.56	
For Damper Blades Outside Air Stream, Add	48.84	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0154	EA		56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	419.81	80.47
			For Horizontal, Add	26.71	
			For Dynamic Damper, Add	40.06	
			For 3 Hour Rated, Add	35.61	
			For Damper Blades Outside Air Stream, Add	53.41	
23 33 13 16-0155	EA		56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	443.04	84.39
			For Horizontal, Add	28.46	
			For Dynamic Damper, Add	42.69	
			For 3 Hour Rated, Add	37.95	
			For Damper Blades Outside Air Stream, Add	56.93	
23 33 13 16-0156	EA		56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	469.78	88.19
			For Horizontal, Add	30.75	
			For Dynamic Damper, Add	46.12	
			For 3 Hour Rated, Add	41.00	
			For Damper Blades Outside Air Stream, Add	61.49	
23 33 13 16-0157	EA		56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	496.53	91.99
			For Horizontal, Add	33.03	
			For Dynamic Damper, Add	49.55	
			For 3 Hour Rated, Add	44.04	
			For Damper Blades Outside Air Stream, Add	66.06	
23 33 13 16-0158	EA		60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	173.70	38.34
			For Horizontal, Add	8.79	
			For Dynamic Damper, Add	13.18	
			For 3 Hour Rated, Add	11.71	
			For Damper Blades Outside Air Stream, Add	17.57	
23 33 13 16-0159	EA		60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	191.07	42.14
			For Horizontal, Add	9.66	
			For Dynamic Damper, Add	14.50	
			For 3 Hour Rated, Add	12.89	
			For Damper Blades Outside Air Stream, Add	19.33	
23 33 13 16-0160	EA		60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	204.93	46.05
			For Horizontal, Add	10.02	
			For Dynamic Damper, Add	15.02	
			For 3 Hour Rated, Add	13.35	
			For Damper Blades Outside Air Stream, Add	20.03	
23 33 13 16-0161	EA		60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	217.61	49.85
			For Horizontal, Add	10.19	
			For Dynamic Damper, Add	15.29	
			For 3 Hour Rated, Add	13.59	
			For Damper Blades Outside Air Stream, Add	20.38	
23 33 13 16-0162	EA		60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	236.16	53.66
			For Horizontal, Add	11.25	
			For Dynamic Damper, Add	16.87	
			For 3 Hour Rated, Add	14.99	
			For Damper Blades Outside Air Stream, Add	22.49	
23 33 13 16-0163	EA		60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	254.68	57.56
			For Horizontal, Add	12.30	
			For Dynamic Damper, Add	18.45	
			For 3 Hour Rated, Add	16.40	
			For Damper Blades Outside Air Stream, Add	24.60	
23 33 13 16-0164	EA		60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	273.82	61.36
			For Horizontal, Add	13.44	
			For Dynamic Damper, Add	20.16	
			For 3 Hour Rated, Add	17.92	
			For Damper Blades Outside Air Stream, Add	26.88	
23 33 13 16-0165	EA		60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	292.94	65.16
			For Horizontal, Add	14.58	
			For Dynamic Damper, Add	21.87	
			For 3 Hour Rated, Add	19.44	
			For Damper Blades Outside Air Stream, Add	29.17	
23 33 13 16-0166	EA		60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	313.93	67.12
			For Horizontal, Add	16.87	
			For Dynamic Damper, Add	25.30	
			For 3 Hour Rated, Add	22.49	
			For Damper Blades Outside Air Stream, Add	33.74	
23 33 13 16-0167	EA		60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	333.74	68.96
			For Horizontal, Add	18.98	
			For Dynamic Damper, Add	28.46	
			For 3 Hour Rated, Add	25.30	
			For Damper Blades Outside Air Stream, Add	37.95	
23 33 13 16-0168	EA		60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	360.49	72.88
			For Horizontal, Add	21.26	
			For Dynamic Damper, Add	31.89	
			For 3 Hour Rated, Add	28.35	
			For Damper Blades Outside Air Stream, Add	42.52	
23 33 13 16-0169	EA		60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	387.22	76.68
			For Horizontal, Add	23.54	
			For Dynamic Damper, Add	35.32	
			For 3 Hour Rated, Add	31.39	
			For Damper Blades Outside Air Stream, Add	47.09	
23 33 13 16-0170	EA		60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	410.44	80.47
			For Horizontal, Add	25.30	
			For Dynamic Damper, Add	37.95	
			For 3 Hour Rated, Add	33.73	
			For Damper Blades Outside Air Stream, Add	50.60	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0171	EA		60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	440.70	84.39
			For Horizontal, Add	28.11	
			For Dynamic Damper, Add	42.17	
			For 3 Hour Rated, Add	37.48	
			For Damper Blades Outside Air Stream, Add	56.22	
23 33 13 16-0172	EA		60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	468.61	88.19
			For Horizontal, Add	30.57	
			For Dynamic Damper, Add	45.86	
			For 3 Hour Rated, Add	40.76	
			For Damper Blades Outside Air Stream, Add	61.14	
23 33 13 16-0173	EA		60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	496.53	91.99
			For Horizontal, Add	33.03	
			For Dynamic Damper, Add	49.55	
			For 3 Hour Rated, Add	44.04	
			For Damper Blades Outside Air Stream, Add	66.06	
23 33 13 16-0174	EA		60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	522.08	95.91
			For Horizontal, Add	35.14	
			For Dynamic Damper, Add	52.71	
			For 3 Hour Rated, Add	46.85	
			For Damper Blades Outside Air Stream, Add	70.28	
23 33 13 16-0175	EA		60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	547.66	99.70
			For Horizontal, Add	37.25	
			For Dynamic Damper, Add	55.87	
			For 3 Hour Rated, Add	49.66	
			For Damper Blades Outside Air Stream, Add	74.50	
23 33 13 16-0176 Parallel Blade Louver Fire Damper (23 33 13 16)					
Note: UL listed. Galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating.					
23 33 13 16-0177	EA		6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	72.28	12.78
			For Horizontal, Add	5.09	
			For Dynamic Damper, Add	7.64	
			For 3 Hour Rated, Add	6.79	
23 33 13 16-0178	EA		8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	75.45	13.35
			For Horizontal, Add	5.31	
			For Dynamic Damper, Add	7.96	
			For 3 Hour Rated, Add	7.08	
23 33 13 16-0179	EA		8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	77.15	13.47
			For Horizontal, Add	5.53	
			For Dynamic Damper, Add	8.29	
			For 3 Hour Rated, Add	7.37	
23 33 13 16-0180	EA		10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	77.15	13.47
			For Horizontal, Add	5.53	
			For Dynamic Damper, Add	8.29	
			For 3 Hour Rated, Add	7.37	
23 33 13 16-0181	EA		10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	79.78	13.82
			For Horizontal, Add	5.75	
			For Dynamic Damper, Add	8.62	
			For 3 Hour Rated, Add	7.67	
23 33 13 16-0182	EA		10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	87.30	15.31
			For Horizontal, Add	6.19	
			For Dynamic Damper, Add	9.28	
			For 3 Hour Rated, Add	8.25	
23 33 13 16-0183	EA		12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	79.78	13.82
			For Horizontal, Add	5.75	
			For Dynamic Damper, Add	8.62	
			For 3 Hour Rated, Add	7.67	
23 33 13 16-0184	EA		12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	85.00	14.62
			For Horizontal, Add	6.19	
			For Dynamic Damper, Add	9.28	
			For 3 Hour Rated, Add	8.25	
23 33 13 16-0185	EA		12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	88.77	15.31
			For Horizontal, Add	6.41	
			For Dynamic Damper, Add	9.61	
			For 3 Hour Rated, Add	8.54	
23 33 13 16-0186	EA		12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	95.99	17.27
			For Horizontal, Add	6.63	
			For Dynamic Damper, Add	9.94	
			For 3 Hour Rated, Add	8.84	
23 33 13 16-0187	EA		14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	84.27	14.62
			For Horizontal, Add	6.08	
			For Dynamic Damper, Add	9.12	
			For 3 Hour Rated, Add	8.10	
23 33 13 16-0188	EA		14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	88.77	15.31
			For Horizontal, Add	6.41	
			For Dynamic Damper, Add	9.61	
			For 3 Hour Rated, Add	8.54	
23 33 13 16-0189	EA		14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	92.53	16.12
			For Horizontal, Add	6.63	
			For Dynamic Damper, Add	9.94	
			For 3 Hour Rated, Add	8.84	
23 33 13 16-0190	EA		14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	97.45	17.27
			For Horizontal, Add	6.85	
			For Dynamic Damper, Add	10.27	
			For 3 Hour Rated, Add	9.13	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0191	EA	14" x 14"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	106.87	19.23
			For Horizontal, Add	7.40	
			For Dynamic Damper, Add	11.09	
			For 3 Hour Rated, Add	9.86	
23 33 13 16-0192	EA	16" x 6"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.71	15.31
			For Horizontal, Add	8.95	
			For Dynamic Damper, Add	13.42	
			For 3 Hour Rated, Add	11.93	
23 33 13 16-0193	EA	16" x 8"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	110.81	16.47
			For Horizontal, Add	9.20	
			For Dynamic Damper, Add	13.79	
			For 3 Hour Rated, Add	12.26	
23 33 13 16-0194	EA	16" x 10"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	117.06	18.08
			For Horizontal, Add	9.44	
			For Dynamic Damper, Add	14.16	
			For 3 Hour Rated, Add	12.59	
23 33 13 16-0195	EA	16" x 12"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	122.14	19.23
			For Horizontal, Add	9.69	
			For Dynamic Damper, Add	14.53	
			For 3 Hour Rated, Add	12.92	
23 33 13 16-0196	EA	16" x 14"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	132.01	21.07
			For Horizontal, Add	10.30	
			For Dynamic Damper, Add	15.46	
			For 3 Hour Rated, Add	13.74	
23 33 13 16-0197	EA	16" x 16"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	141.87	23.03
			For Horizontal, Add	10.92	
			For Dynamic Damper, Add	16.38	
			For 3 Hour Rated, Add	14.56	
23 33 13 16-0198	EA	18" x 6"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	109.65	16.12
			For Horizontal, Add	9.20	
			For Dynamic Damper, Add	13.79	
			For 3 Hour Rated, Add	12.26	
23 33 13 16-0199	EA	18" x 8"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	115.57	17.27
			For Horizontal, Add	9.56	
			For Dynamic Damper, Add	14.35	
			For 3 Hour Rated, Add	12.75	
23 33 13 16-0200	EA	18" x 10"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	123.80	19.23
			For Horizontal, Add	9.94	
			For Dynamic Damper, Add	14.90	
			For 3 Hour Rated, Add	13.25	
23 33 13 16-0201	EA	18" x 12"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	133.65	21.07
			For Horizontal, Add	10.55	
			For Dynamic Damper, Add	15.82	
			For 3 Hour Rated, Add	14.07	
23 33 13 16-0202	EA	18" x 14"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	142.69	23.03
			For Horizontal, Add	11.04	
			For Dynamic Damper, Add	16.56	
			For 3 Hour Rated, Add	14.72	
23 33 13 16-0203	EA	18" x 16"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	152.55	24.87
			For Horizontal, Add	11.66	
			For Dynamic Damper, Add	17.48	
			For 3 Hour Rated, Add	15.54	
23 33 13 16-0204	EA	18" x 18"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.76	26.83
			For Horizontal, Add	12.03	
			For Dynamic Damper, Add	18.04	
			For 3 Hour Rated, Add	16.03	
23 33 13 16-0205	EA	20" x 6"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	114.76	17.27
			For Horizontal, Add	9.44	
			For Dynamic Damper, Add	14.16	
			For 3 Hour Rated, Add	12.59	
23 33 13 16-0206	EA	20" x 8"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	123.78	19.23
			For Horizontal, Add	9.93	
			For Dynamic Damper, Add	14.90	
			For 3 Hour Rated, Add	13.24	
23 33 13 16-0207	EA	20" x 10"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	132.83	21.07
			For Horizontal, Add	10.43	
			For Dynamic Damper, Add	15.64	
			For 3 Hour Rated, Add	13.90	
23 33 13 16-0208	EA	20" x 12"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	145.16	23.03
			For Horizontal, Add	11.41	
			For Dynamic Damper, Add	17.12	
			For 3 Hour Rated, Add	15.22	
23 33 13 16-0209	EA	20" x 14"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	153.38	24.87
			For Horizontal, Add	11.78	
			For Dynamic Damper, Add	17.67	
			For 3 Hour Rated, Add	15.71	
23 33 13 16-0210	EA	20" x 16"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	161.58	26.83
			For Horizontal, Add	12.15	
			For Dynamic Damper, Add	18.22	
			For 3 Hour Rated, Add	16.20	
23 33 13 16-0211	EA	20" x 18"	Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	170.62	28.79
			For Horizontal, Add	12.64	
			For Dynamic Damper, Add	18.96	
			For 3 Hour Rated, Add	16.85	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0212 EA 20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.65	30.63
For Horizontal, Add	13.13	
For Dynamic Damper, Add	19.70	
For 3 Hour Rated, Add	17.51	
23 33 13 16-0213 EA 24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	138.86	19.23
For Horizontal, Add	12.20	
For Dynamic Damper, Add	18.29	
For 3 Hour Rated, Add	16.26	
23 33 13 16-0214 EA 24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	149.55	21.07
For Horizontal, Add	12.93	
For Dynamic Damper, Add	19.40	
For 3 Hour Rated, Add	17.25	
23 33 13 16-0215 EA 24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	158.60	23.03
For Horizontal, Add	13.43	
For Dynamic Damper, Add	20.14	
For 3 Hour Rated, Add	17.90	
23 33 13 16-0216 EA 24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	169.26	24.87
For Horizontal, Add	14.16	
For Dynamic Damper, Add	21.24	
For 3 Hour Rated, Add	18.88	
23 33 13 16-0217 EA 24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	177.48	26.83
For Horizontal, Add	14.53	
For Dynamic Damper, Add	21.80	
For 3 Hour Rated, Add	19.38	
23 33 13 16-0218 EA 24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	185.69	28.79
For Horizontal, Add	14.90	
For Dynamic Damper, Add	22.35	
For 3 Hour Rated, Add	19.87	
23 33 13 16-0219 EA 24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	196.37	30.63
For Horizontal, Add	15.64	
For Dynamic Damper, Add	23.46	
For 3 Hour Rated, Add	20.85	
23 33 13 16-0220 EA 24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	212.79	34.53
For Horizontal, Add	16.38	
For Dynamic Damper, Add	24.57	
For 3 Hour Rated, Add	21.84	
23 33 13 16-0221 EA 24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	230.87	38.34
For Horizontal, Add	17.36	
For Dynamic Damper, Add	26.04	
For 3 Hour Rated, Add	23.15	
23 33 13 16-0222 EA 28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	149.55	21.07
For Horizontal, Add	12.93	
For Dynamic Damper, Add	19.40	
For 3 Hour Rated, Add	17.25	
23 33 13 16-0223 EA 28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	158.60	23.03
For Horizontal, Add	13.43	
For Dynamic Damper, Add	20.14	
For 3 Hour Rated, Add	17.90	
23 33 13 16-0224 EA 28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	169.26	24.87
For Horizontal, Add	14.16	
For Dynamic Damper, Add	21.24	
For 3 Hour Rated, Add	18.88	
23 33 13 16-0225 EA 28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	178.29	26.83
For Horizontal, Add	14.66	
For Dynamic Damper, Add	21.98	
For 3 Hour Rated, Add	19.54	
23 33 13 16-0226 EA 28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	188.16	28.79
For Horizontal, Add	15.27	
For Dynamic Damper, Add	22.91	
For 3 Hour Rated, Add	20.36	
23 33 13 16-0227 EA 28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	198.00	30.63
For Horizontal, Add	15.88	
For Dynamic Damper, Add	23.83	
For 3 Hour Rated, Add	21.18	
23 33 13 16-0228 EA 28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	214.43	34.53
For Horizontal, Add	16.62	
For Dynamic Damper, Add	24.93	
For 3 Hour Rated, Add	22.16	
23 33 13 16-0229 EA 28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	230.87	38.34
For Horizontal, Add	17.36	
For Dynamic Damper, Add	26.04	
For 3 Hour Rated, Add	23.15	
23 33 13 16-0230 EA 28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	246.47	40.29
For Horizontal, Add	18.84	
For Dynamic Damper, Add	28.26	
For 3 Hour Rated, Add	25.12	
23 33 13 16-0231 EA 28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	266.18	44.09
For Horizontal, Add	20.07	
For Dynamic Damper, Add	30.10	
For 3 Hour Rated, Add	26.76	
23 33 13 16-0232 EA 32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	163.50	23.03
For Horizontal, Add	14.16	
For Dynamic Damper, Add	21.24	
For 3 Hour Rated, Add	18.88	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0233	EA	32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	170.89	24.87
		For Horizontal, Add	14.41	
		For Dynamic Damper, Add	21.61	
		For 3 Hour Rated, Add	19.21	
23 33 13 16-0234	EA	32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	178.29	26.83
		For Horizontal, Add	14.66	
		For Dynamic Damper, Add	21.98	
		For 3 Hour Rated, Add	19.54	
23 33 13 16-0235	EA	32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	187.32	28.79
		For Horizontal, Add	15.15	
		For Dynamic Damper, Add	22.72	
		For 3 Hour Rated, Add	20.19	
23 33 13 16-0236	EA	32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	198.31	30.63
		For Horizontal, Add	15.93	
		For Dynamic Damper, Add	23.90	
		For 3 Hour Rated, Add	21.24	
23 33 13 16-0237	EA	32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	214.43	34.53
		For Horizontal, Add	16.62	
		For Dynamic Damper, Add	24.93	
		For 3 Hour Rated, Add	22.16	
23 33 13 16-0238	EA	32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	232.52	38.34
		For Horizontal, Add	17.61	
		For Dynamic Damper, Add	26.41	
		For 3 Hour Rated, Add	23.48	
23 33 13 16-0239	EA	32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	250.59	42.14
		For Horizontal, Add	18.59	
		For Dynamic Damper, Add	27.89	
		For 3 Hour Rated, Add	24.79	
23 33 13 16-0240	EA	32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	266.18	44.09
		For Horizontal, Add	20.07	
		For Dynamic Damper, Add	30.10	
		For 3 Hour Rated, Add	26.76	
23 33 13 16-0241	EA	32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	286.87	47.20
		For Horizontal, Add	21.79	
		For Dynamic Damper, Add	32.68	
		For 3 Hour Rated, Add	29.05	
23 33 13 16-0242	EA	32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	308.05	49.85
		For Horizontal, Add	23.76	
		For Dynamic Damper, Add	35.64	
		For 3 Hour Rated, Add	31.68	
23 33 13 16-0243	EA	36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	182.62	24.87
		For Horizontal, Add	16.17	
		For Dynamic Damper, Add	24.25	
		For 3 Hour Rated, Add	21.56	
23 33 13 16-0244	EA	36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	192.10	26.83
		For Horizontal, Add	16.73	
		For Dynamic Damper, Add	25.09	
		For 3 Hour Rated, Add	22.30	
23 33 13 16-0245	EA	36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	201.61	28.79
		For Horizontal, Add	17.29	
		For Dynamic Damper, Add	25.93	
		For 3 Hour Rated, Add	23.05	
23 33 13 16-0246	EA	36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	213.00	30.63
		For Horizontal, Add	18.13	
		For Dynamic Damper, Add	27.20	
		For 3 Hour Rated, Add	24.18	
23 33 13 16-0247	EA	36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	227.32	34.53
		For Horizontal, Add	18.56	
		For Dynamic Damper, Add	27.83	
		For 3 Hour Rated, Add	24.74	
23 33 13 16-0248	EA	36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	235.90	36.38
		For Horizontal, Add	18.98	
		For Dynamic Damper, Add	28.47	
		For 3 Hour Rated, Add	25.31	
23 33 13 16-0249	EA	36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	262.54	42.14
		For Horizontal, Add	20.39	
		For Dynamic Damper, Add	30.58	
		For 3 Hour Rated, Add	27.18	
23 33 13 16-0250	EA	36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	283.42	46.05
		For Horizontal, Add	21.79	
		For Dynamic Damper, Add	32.68	
		For 3 Hour Rated, Add	29.05	
23 33 13 16-0251	EA	36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	299.27	47.55
		For Horizontal, Add	23.48	
		For Dynamic Damper, Add	35.21	
		For 3 Hour Rated, Add	31.30	
23 33 13 16-0252	EA	36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	324.61	51.00
		For Horizontal, Add	25.72	
		For Dynamic Damper, Add	38.59	
		For 3 Hour Rated, Add	34.30	
23 33 13 16-0253	EA	36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	345.79	53.66
		For Horizontal, Add	27.69	
		For Dynamic Damper, Add	41.54	
		For 3 Hour Rated, Add	36.92	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0254 EA 36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	366.54	55.60
For Horizontal, Add	29.94	
For Dynamic Damper, Add	44.91	
For 3 Hour Rated, Add	39.92	
23 33 13 16-0255 EA 40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	203.67	28.79
For Horizontal, Add	18.46	
For Dynamic Damper, Add	27.69	
For 3 Hour Rated, Add	24.62	
23 33 13 16-0256 EA 40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	216.93	30.63
For Horizontal, Add	19.59	
For Dynamic Damper, Add	29.38	
For 3 Hour Rated, Add	26.12	
23 33 13 16-0257 EA 40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	224.56	32.59
For Horizontal, Add	19.87	
For Dynamic Damper, Add	29.80	
For 3 Hour Rated, Add	26.49	
23 33 13 16-0258 EA 40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	232.20	34.53
For Horizontal, Add	20.15	
For Dynamic Damper, Add	30.22	
For 3 Hour Rated, Add	26.87	
23 33 13 16-0259 EA 40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	250.26	36.38
For Horizontal, Add	21.13	
For Dynamic Damper, Add	31.70	
For 3 Hour Rated, Add	28.18	
23 33 13 16-0260 EA 40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	262.58	38.34
For Horizontal, Add	22.12	
For Dynamic Damper, Add	33.18	
For 3 Hour Rated, Add	29.49	
23 33 13 16-0261 EA 40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	287.35	44.09
For Horizontal, Add	23.24	
For Dynamic Damper, Add	34.86	
For 3 Hour Rated, Add	30.99	
23 33 13 16-0262 EA 40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	306.36	47.90
For Horizontal, Add	24.37	
For Dynamic Damper, Add	36.55	
For 3 Hour Rated, Add	32.49	
23 33 13 16-0263 EA 40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	326.81	51.00
For Horizontal, Add	26.05	
For Dynamic Damper, Add	39.08	
For 3 Hour Rated, Add	34.74	
23 33 13 16-0264 EA 40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	355.49	53.66
For Horizontal, Add	29.15	
For Dynamic Damper, Add	43.72	
For 3 Hour Rated, Add	38.86	
23 33 13 16-0265 EA 40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	375.93	56.76
For Horizontal, Add	30.83	
For Dynamic Damper, Add	46.25	
For 3 Hour Rated, Add	41.11	
23 33 13 16-0266 EA 40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	401.16	58.26
For Horizontal, Add	33.92	
For Dynamic Damper, Add	50.89	
For 3 Hour Rated, Add	45.23	
23 33 13 16-0267 EA 40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	429.11	61.36
For Horizontal, Add	36.74	
For Dynamic Damper, Add	55.10	
For 3 Hour Rated, Add	48.98	
23 33 13 16-0268 EA 44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	213.18	28.79
For Horizontal, Add	19.02	
For Dynamic Damper, Add	28.54	
For 3 Hour Rated, Add	25.37	
23 33 13 16-0269 EA 44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	226.44	30.63
For Horizontal, Add	20.15	
For Dynamic Damper, Add	30.22	
For 3 Hour Rated, Add	26.87	
23 33 13 16-0270 EA 44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	237.83	32.59
For Horizontal, Add	20.99	
For Dynamic Damper, Add	31.49	
For 3 Hour Rated, Add	27.99	
23 33 13 16-0271 EA 44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	245.44	34.53
For Horizontal, Add	21.27	
For Dynamic Damper, Add	31.91	
For 3 Hour Rated, Add	28.37	
23 33 13 16-0272 EA 44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	258.70	36.38
For Horizontal, Add	22.40	
For Dynamic Damper, Add	33.60	
For 3 Hour Rated, Add	29.87	
23 33 13 16-0273 EA 44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	271.96	38.34
For Horizontal, Add	23.52	
For Dynamic Damper, Add	35.29	
For 3 Hour Rated, Add	31.37	
23 33 13 16-0274 EA 44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	304.36	46.05
For Horizontal, Add	24.93	
For Dynamic Damper, Add	37.40	
For 3 Hour Rated, Add	33.24	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0275	EA	44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	325.23	49.85
		For Horizontal, Add	26.33	
		For Dynamic Damper, Add	39.50	
		For 3 Hour Rated, Add	35.11	
23 33 13 16-0276	EA	44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	355.49	53.66
		For Horizontal, Add	29.15	
		For Dynamic Damper, Add	43.72	
		For 3 Hour Rated, Add	38.86	
23 33 13 16-0277	EA	44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	383.86	57.56
		For Horizontal, Add	31.68	
		For Dynamic Damper, Add	47.51	
		For 3 Hour Rated, Add	42.23	
23 33 13 16-0278	EA	44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	414.11	61.36
		For Horizontal, Add	34.49	
		For Dynamic Damper, Add	51.73	
		For 3 Hour Rated, Add	45.98	
23 33 13 16-0279	EA	44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	436.73	63.21
		For Horizontal, Add	37.02	
		For Dynamic Damper, Add	55.52	
		For 3 Hour Rated, Add	49.35	
23 33 13 16-0280	EA	44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	459.36	65.16
		For Horizontal, Add	39.55	
		For Dynamic Damper, Add	59.32	
		For 3 Hour Rated, Add	52.73	
23 33 13 16-0281	EA	44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	482.00	67.12
		For Horizontal, Add	42.08	
		For Dynamic Damper, Add	63.12	
		For 3 Hour Rated, Add	56.10	
23 33 13 16-0282	EA	48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	224.56	30.63
		For Horizontal, Add	19.87	
		For Dynamic Damper, Add	29.80	
		For 3 Hour Rated, Add	26.49	
23 33 13 16-0283	EA	48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	237.83	32.59
		For Horizontal, Add	20.99	
		For Dynamic Damper, Add	31.49	
		For 3 Hour Rated, Add	27.99	
23 33 13 16-0284	EA	48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	245.44	34.53
		For Horizontal, Add	21.27	
		For Dynamic Damper, Add	31.91	
		For 3 Hour Rated, Add	28.37	
23 33 13 16-0285	EA	48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	262.58	38.34
		For Horizontal, Add	22.12	
		For Dynamic Damper, Add	33.18	
		For 3 Hour Rated, Add	29.49	
23 33 13 16-0286	EA	48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	281.59	42.14
		For Horizontal, Add	23.24	
		For Dynamic Damper, Add	34.86	
		For 3 Hour Rated, Add	30.99	
23 33 13 16-0287	EA	48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	300.60	46.05
		For Horizontal, Add	24.37	
		For Dynamic Damper, Add	36.55	
		For 3 Hour Rated, Add	32.49	
23 33 13 16-0288	EA	48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	323.36	49.85
		For Horizontal, Add	26.05	
		For Dynamic Damper, Add	39.08	
		For 3 Hour Rated, Add	34.74	
23 33 13 16-0289	EA	48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	346.12	53.66
		For Horizontal, Add	27.74	
		For Dynamic Damper, Add	41.61	
		For 3 Hour Rated, Add	36.99	
23 33 13 16-0290	EA	48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	374.49	57.56
		For Horizontal, Add	30.27	
		For Dynamic Damper, Add	45.41	
		For 3 Hour Rated, Add	40.36	
23 33 13 16-0291	EA	48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	406.61	61.36
		For Horizontal, Add	33.36	
		For Dynamic Damper, Add	50.04	
		For 3 Hour Rated, Add	44.48	
23 33 13 16-0292	EA	48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	429.25	63.21
		For Horizontal, Add	35.89	
		For Dynamic Damper, Add	53.84	
		For 3 Hour Rated, Add	47.86	
23 33 13 16-0293	EA	48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	457.48	65.16
		For Horizontal, Add	39.26	
		For Dynamic Damper, Add	58.90	
		For 3 Hour Rated, Add	52.35	
23 33 13 16-0294	EA	48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	485.88	68.96
		For Horizontal, Add	41.80	
		For Dynamic Damper, Add	62.69	
		For 3 Hour Rated, Add	55.73	
23 33 13 16-0295	EA	48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	514.12	70.92
		For Horizontal, Add	45.17	
		For Dynamic Damper, Add	67.75	
		For 3 Hour Rated, Add	60.23	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0296 EA 48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	546.38	76.68
For Horizontal, Add	47.42	
For Dynamic Damper, Add	71.13	
For 3 Hour Rated, Add	63.22	
23 33 13 16-0297 EA 52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	235.95	32.59
For Horizontal, Add	20.71	
For Dynamic Damper, Add	31.07	
For 3 Hour Rated, Add	27.62	
23 33 13 16-0298 EA 52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	249.19	34.53
For Horizontal, Add	21.84	
For Dynamic Damper, Add	32.76	
For 3 Hour Rated, Add	29.12	
23 33 13 16-0299 EA 52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	268.21	38.34
For Horizontal, Add	22.96	
For Dynamic Damper, Add	34.44	
For 3 Hour Rated, Add	30.62	
23 33 13 16-0300 EA 52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	281.59	42.14
For Horizontal, Add	23.24	
For Dynamic Damper, Add	34.86	
For 3 Hour Rated, Add	30.99	
23 33 13 16-0301 EA 52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	301.55	46.05
For Horizontal, Add	24.51	
For Dynamic Damper, Add	36.76	
For 3 Hour Rated, Add	32.68	
23 33 13 16-0302 EA 52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	321.48	49.85
For Horizontal, Add	25.77	
For Dynamic Damper, Add	38.66	
For 3 Hour Rated, Add	34.36	
23 33 13 16-0303 EA 52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	344.25	53.66
For Horizontal, Add	27.46	
For Dynamic Damper, Add	41.19	
For 3 Hour Rated, Add	36.61	
23 33 13 16-0304 EA 52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	366.99	57.56
For Horizontal, Add	29.15	
For Dynamic Damper, Add	43.72	
For 3 Hour Rated, Add	38.86	
23 33 13 16-0305 EA 52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	395.38	61.36
For Horizontal, Add	31.68	
For Dynamic Damper, Add	47.51	
For 3 Hour Rated, Add	42.23	
23 33 13 16-0306 EA 52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	429.37	65.16
For Horizontal, Add	35.05	
For Dynamic Damper, Add	52.57	
For 3 Hour Rated, Add	46.73	
23 33 13 16-0307 EA 52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	453.87	67.12
For Horizontal, Add	37.86	
For Dynamic Damper, Add	56.79	
For 3 Hour Rated, Add	50.48	
23 33 13 16-0308 EA 52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	484.00	68.96
For Horizontal, Add	41.51	
For Dynamic Damper, Add	62.27	
For 3 Hour Rated, Add	55.35	
23 33 13 16-0309 EA 52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	517.99	72.88
For Horizontal, Add	44.89	
For Dynamic Damper, Add	67.33	
For 3 Hour Rated, Add	59.85	
23 33 13 16-0310 EA 52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	546.38	76.68
For Horizontal, Add	47.42	
For Dynamic Damper, Add	71.13	
For 3 Hour Rated, Add	63.22	
23 33 13 16-0311 EA 52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	586.13	82.43
For Horizontal, Add	50.79	
For Dynamic Damper, Add	76.19	
For 3 Hour Rated, Add	67.72	
23 33 13 16-0312 EA 52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	616.39	86.23
For Horizontal, Add	53.60	
For Dynamic Damper, Add	80.40	
For 3 Hour Rated, Add	71.47	
23 33 13 16-0313 EA 56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	245.44	34.53
For Horizontal, Add	21.27	
For Dynamic Damper, Add	31.91	
For 3 Hour Rated, Add	28.37	
23 33 13 16-0314 EA 56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	266.32	38.34
For Horizontal, Add	22.68	
For Dynamic Damper, Add	34.02	
For 3 Hour Rated, Add	30.24	
23 33 13 16-0315 EA 56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	283.47	42.14
For Horizontal, Add	23.52	
For Dynamic Damper, Add	35.29	
For 3 Hour Rated, Add	31.37	
23 33 13 16-0316 EA 56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	296.85	46.05
For Horizontal, Add	23.80	
For Dynamic Damper, Add	35.71	
For 3 Hour Rated, Add	31.74	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0317	EA	56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	318.68	49.85
		For Horizontal, Add	25.35	
		For Dynamic Damper, Add	38.03	
		For 3 Hour Rated, Add	33.80	
23 33 13 16-0318	EA	56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	340.50	53.66
		For Horizontal, Add	26.90	
		For Dynamic Damper, Add	40.34	
		For 3 Hour Rated, Add	35.86	
23 33 13 16-0319	EA	56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	362.31	57.56
		For Horizontal, Add	28.44	
		For Dynamic Damper, Add	42.66	
		For 3 Hour Rated, Add	37.92	
23 33 13 16-0320	EA	56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	384.13	61.36
		For Horizontal, Add	29.99	
		For Dynamic Damper, Add	44.98	
		For 3 Hour Rated, Add	39.98	
23 33 13 16-0321	EA	56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	418.12	65.16
		For Horizontal, Add	33.36	
		For Dynamic Damper, Add	50.04	
		For 3 Hour Rated, Add	44.48	
23 33 13 16-0322	EA	56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	446.38	67.12
		For Horizontal, Add	36.74	
		For Dynamic Damper, Add	55.10	
		For 3 Hour Rated, Add	48.98	
23 33 13 16-0323	EA	56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	472.75	68.96
		For Horizontal, Add	39.83	
		For Dynamic Damper, Add	59.74	
		For 3 Hour Rated, Add	53.10	
23 33 13 16-0324	EA	56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	510.51	72.88
		For Horizontal, Add	43.76	
		For Dynamic Damper, Add	65.65	
		For 3 Hour Rated, Add	58.35	
23 33 13 16-0325	EA	56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	544.50	76.68
		For Horizontal, Add	47.14	
		For Dynamic Damper, Add	70.70	
		For 3 Hour Rated, Add	62.85	
23 33 13 16-0326	EA	56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	580.37	80.47
		For Horizontal, Add	50.79	
		For Dynamic Damper, Add	76.19	
		For 3 Hour Rated, Add	67.72	
23 33 13 16-0327	EA	56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	610.64	84.39
		For Horizontal, Add	53.60	
		For Dynamic Damper, Add	80.40	
		For 3 Hour Rated, Add	71.47	
23 33 13 16-0328	EA	56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	646.51	88.19
		For Horizontal, Add	57.26	
		For Dynamic Damper, Add	85.88	
		For 3 Hour Rated, Add	76.34	
23 33 13 16-0329	EA	56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	682.39	91.99
		For Horizontal, Add	60.91	
		For Dynamic Damper, Add	91.37	
		For 3 Hour Rated, Add	81.21	
23 33 13 16-0330	EA	60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	262.58	38.34
		For Horizontal, Add	22.12	
		For Dynamic Damper, Add	33.18	
		For 3 Hour Rated, Add	29.49	
23 33 13 16-0331	EA	60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	283.47	42.14
		For Horizontal, Add	23.52	
		For Dynamic Damper, Add	35.29	
		For 3 Hour Rated, Add	31.37	
23 33 13 16-0332	EA	60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	298.72	46.05
		For Horizontal, Add	24.08	
		For Dynamic Damper, Add	36.13	
		For 3 Hour Rated, Add	32.11	
23 33 13 16-0333	EA	60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	312.11	49.85
		For Horizontal, Add	24.37	
		For Dynamic Damper, Add	36.55	
		For 3 Hour Rated, Add	32.49	
23 33 13 16-0334	EA	60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	334.88	53.66
		For Horizontal, Add	26.05	
		For Dynamic Damper, Add	39.08	
		For 3 Hour Rated, Add	34.74	
23 33 13 16-0335	EA	60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	357.62	57.56
		For Horizontal, Add	27.74	
		For Dynamic Damper, Add	41.61	
		For 3 Hour Rated, Add	36.99	
23 33 13 16-0336	EA	60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	381.32	61.36
		For Horizontal, Add	29.57	
		For Dynamic Damper, Add	44.35	
		For 3 Hour Rated, Add	39.42	
23 33 13 16-0337	EA	60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	405.01	65.16
		For Horizontal, Add	31.39	
		For Dynamic Damper, Add	47.09	
		For 3 Hour Rated, Add	41.86	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0338 EA 60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	435.13	67.12
For Horizontal, Add	35.05	
For Dynamic Damper, Add	52.57	
For 3 Hour Rated, Add	46.73	
23 33 13 16-0339 EA 60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	463.38	68.96
For Horizontal, Add	38.42	
For Dynamic Damper, Add	57.63	
For 3 Hour Rated, Add	51.23	
23 33 13 16-0340 EA 60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	499.27	72.88
For Horizontal, Add	42.08	
For Dynamic Damper, Add	63.12	
For 3 Hour Rated, Add	56.10	
23 33 13 16-0341 EA 60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	535.14	76.68
For Horizontal, Add	45.73	
For Dynamic Damper, Add	68.60	
For 3 Hour Rated, Add	60.98	
23 33 13 16-0342 EA 60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	565.39	80.47
For Horizontal, Add	48.54	
For Dynamic Damper, Add	72.81	
For 3 Hour Rated, Add	64.72	
23 33 13 16-0343 EA 60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	606.89	84.39
For Horizontal, Add	53.04	
For Dynamic Damper, Add	79.56	
For 3 Hour Rated, Add	70.72	
23 33 13 16-0344 EA 60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	644.63	88.19
For Horizontal, Add	56.97	
For Dynamic Damper, Add	85.46	
For 3 Hour Rated, Add	75.97	
23 33 13 16-0345 EA 60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	682.39	91.99
For Horizontal, Add	60.91	
For Dynamic Damper, Add	91.37	
For 3 Hour Rated, Add	81.21	
23 33 13 16-0346 EA 60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	716.38	95.91
For Horizontal, Add	64.28	
For Dynamic Damper, Add	96.42	
For 3 Hour Rated, Add	85.71	
23 33 13 16-0347 EA 60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	750.40	99.70
For Horizontal, Add	67.66	
For Dynamic Damper, Add	101.49	
For 3 Hour Rated, Add	90.21	

23 33 13 16-0348 Round 2 Hour Fire Damper (23 33 13 16)

23 33 13 16-0349 EA 4" Round 2 Hour Fire Damper	62.00	23.03
23 33 13 16-0350 EA 5" Round 2 Hour Fire Damper	63.14	23.03
23 33 13 16-0351 EA 6" Round 2 Hour Fire Damper	72.85	26.13
23 33 13 16-0352 EA 7" Round 2 Hour Fire Damper	74.09	26.13
23 33 13 16-0353 EA 8" Round 2 Hour Fire Damper	84.91	28.79
23 33 13 16-0354 EA 9" Round 2 Hour Fire Damper	88.33	28.79
23 33 13 16-0355 EA 10" Round 2 Hour Fire Damper	98.16	32.00
23 33 13 16-0356 EA 12" Round 2 Hour Fire Damper	110.34	36.03
23 33 13 16-0357 EA 14" Round 2 Hour Fire Damper	125.75	41.11

23 33 13 16-0358 Round 4 Hour Fire Damper (23 33 13 16)

23 33 13 16-0359 EA 4" Round 4 Hour Fire Damper	70.20	26.13
23 33 13 16-0360 EA 5" Round 4 Hour Fire Damper	73.31	26.13
23 33 13 16-0361 EA 6" Round 4 Hour Fire Damper	81.69	28.79
23 33 13 16-0362 EA 7" Round 4 Hour Fire Damper	85.71	28.79
23 33 13 16-0363 EA 8" Round 4 Hour Fire Damper	96.13	32.00
23 33 13 16-0364 EA 9" Round 4 Hour Fire Damper	98.58	32.00
23 33 13 16-0365 EA 10" Round 4 Hour Fire Damper	110.41	36.03
23 33 13 16-0366 EA 12" Round 4 Hour Fire Damper	124.20	41.11
23 33 13 16-0367 EA 14" Round 4 Hour Fire Damper	144.91	48.01

23 33 13 19 Smoke-Control Dampers (23 33 13)**23 33 13 19-0001 Combination Smoke/Fire Damper (23 33 13 19)**

Note: Leakage class I with Firestat UL 555S air foil blades.

23 33 13 19-0002 EA 6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	112.19	19.17
For 3 Hour Rated, Add	10.94	
23 33 13 19-0003 EA 8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	116.13	20.04
For 3 Hour Rated, Add	11.21	
23 33 13 19-0004 EA 8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	117.83	20.21
For 3 Hour Rated, Add	11.48	
23 33 13 19-0005 EA 10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	117.83	20.21
For 3 Hour Rated, Add	11.48	
23 33 13 19-0006 EA 10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.89	20.72
For 3 Hour Rated, Add	11.74	
23 33 13 19-0007 EA 10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	130.50	22.97
For 3 Hour Rated, Add	12.28	
23 33 13 19-0008 EA 12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.89	20.72
For 3 Hour Rated, Add	11.74	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0009 EA 12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	127.04	21.93
For 3 Hour Rated, Add	12.28	
23 33 13 19-0010 EA 12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	131.84	22.97
For 3 Hour Rated, Add	12.55	
23 33 13 19-0011 EA 12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	141.82	25.90
For 3 Hour Rated, Add	12.82	
23 33 13 19-0012 EA 14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	126.37	21.93
For 3 Hour Rated, Add	12.15	
23 33 13 19-0013 EA 14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	131.84	22.97
For 3 Hour Rated, Add	12.55	
23 33 13 19-0014 EA 14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.65	24.18
For 3 Hour Rated, Add	12.82	
23 33 13 19-0015 EA 14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	143.18	25.90
For 3 Hour Rated, Add	13.09	
23 33 13 19-0016 EA 14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	155.18	28.84
For 3 Hour Rated, Add	13.77	
23 33 13 19-0017 EA 16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	181.11	22.97
For 3 Hour Rated, Add	22.41	
23 33 13 19-0018 EA 16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	187.64	24.70
For 3 Hour Rated, Add	22.68	
23 33 13 19-0019 EA 16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	195.90	27.11
For 3 Hour Rated, Add	22.95	
23 33 13 19-0020 EA 16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	202.41	28.84
For 3 Hour Rated, Add	23.21	
23 33 13 19-0021 EA 16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	214.42	31.60
For 3 Hour Rated, Add	23.89	
23 33 13 19-0022 EA 16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	226.42	34.53
For 3 Hour Rated, Add	24.56	
23 33 13 19-0023 EA 18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	185.92	24.18
For 3 Hour Rated, Add	22.68	
23 33 13 19-0024 EA 18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	193.10	25.90
For 3 Hour Rated, Add	23.08	
23 33 13 19-0025 EA 18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	203.78	28.84
For 3 Hour Rated, Add	23.49	
23 33 13 19-0026 EA 18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	215.77	31.60
For 3 Hour Rated, Add	24.16	
23 33 13 19-0027 EA 18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.09	34.53
For 3 Hour Rated, Add	24.70	
23 33 13 19-0028 EA 18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	239.10	37.30
For 3 Hour Rated, Add	25.37	
23 33 13 19-0029 EA 18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	249.76	40.24
For 3 Hour Rated, Add	25.77	
23 33 13 19-0030 EA 20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	192.44	25.90
For 3 Hour Rated, Add	22.95	
23 33 13 19-0031 EA 20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	203.77	28.84
For 3 Hour Rated, Add	23.48	
23 33 13 19-0032 EA 20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	215.09	31.60
For 3 Hour Rated, Add	24.02	
23 33 13 19-0033 EA 20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	229.12	34.53
For 3 Hour Rated, Add	25.10	
23 33 13 19-0034 EA 20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	239.78	37.30
For 3 Hour Rated, Add	25.51	
23 33 13 19-0035 EA 20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	250.44	40.24
For 3 Hour Rated, Add	25.91	
23 33 13 19-0036 EA 20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	261.77	43.18
For 3 Hour Rated, Add	26.45	
23 33 13 19-0037 EA 20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	273.09	45.94
For 3 Hour Rated, Add	26.99	
23 33 13 19-0038 EA 24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	258.85	28.84
For 3 Hour Rated, Add	34.50	
23 33 13 19-0039 EA 24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	271.53	31.60
For 3 Hour Rated, Add	35.31	
23 33 13 19-0040 EA 24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	282.87	34.53
For 3 Hour Rated, Add	35.85	
23 33 13 19-0041 EA 24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	295.54	37.30
For 3 Hour Rated, Add	36.66	
23 33 13 19-0042 EA 24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	306.20	40.24
For 3 Hour Rated, Add	37.06	
23 33 13 19-0043 EA 24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	316.86	43.18
For 3 Hour Rated, Add	37.47	
23 33 13 19-0044 EA 24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	329.53	45.94
For 3 Hour Rated, Add	38.27	
23 33 13 19-0045 EA 24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	350.84	51.81
For 3 Hour Rated, Add	39.08	
23 33 13 19-0046 EA 24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	373.49	57.50
For 3 Hour Rated, Add	40.16	
23 33 13 19-0047 EA 28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	271.53	31.60
For 3 Hour Rated, Add	35.31	
23 33 13 19-0048 EA 28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	282.87	34.53
For 3 Hour Rated, Add	35.85	
23 33 13 19-0049 EA 28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	295.54	37.30
For 3 Hour Rated, Add	36.66	
23 33 13 19-0050 EA 28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	306.87	40.24
For 3 Hour Rated, Add	37.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0051 EA 28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....318.88 For 3 Hour Rated, Add 37.87	318.88	43.18
23 33 13 19-0052 EA 28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....330.87 For 3 Hour Rated, Add 38.54	330.87	45.94
23 33 13 19-0053 EA 28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....352.18 For 3 Hour Rated, Add 39.35	352.18	51.81
23 33 13 19-0054 EA 28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....373.49 For 3 Hour Rated, Add 40.16	373.49	57.50
23 33 13 19-0055 EA 28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....390.21 For 3 Hour Rated, Add 41.78	390.21	60.45
23 33 13 19-0056 EA 28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....414.21 For 3 Hour Rated, Add 43.12	414.21	66.15
23 33 13 19-0057 EA 32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....286.90 For 3 Hour Rated, Add 36.66	286.90	34.53
23 33 13 19-0058 EA 32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....296.88 For 3 Hour Rated, Add 36.93	296.88	37.30
23 33 13 19-0059 EA 32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....306.87 For 3 Hour Rated, Add 37.20	306.87	40.24
23 33 13 19-0060 EA 32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....318.20 For 3 Hour Rated, Add 37.73	318.20	43.18
23 33 13 19-0061 EA 32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....331.12 For 3 Hour Rated, Add 38.59	331.12	45.94
23 33 13 19-0062 EA 32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....352.18 For 3 Hour Rated, Add 39.35	352.18	51.81
23 33 13 19-0063 EA 32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....374.84 For 3 Hour Rated, Add 40.43	374.84	57.50
23 33 13 19-0064 EA 32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....397.50 For 3 Hour Rated, Add 41.51	397.50	63.21
23 33 13 19-0065 EA 32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....414.21 For 3 Hour Rated, Add 43.12	414.21	66.15
23 33 13 19-0066 EA 32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....437.46 For 3 Hour Rated, Add 45.01	437.46	70.81
23 33 13 19-0067 EA 32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....460.33 For 3 Hour Rated, Add 47.16	460.33	74.78
23 33 13 19-0068 EA 36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....303.80 For 3 Hour Rated, Add 38.31	303.80	37.30
23 33 13 19-0069 EA 36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....315.36 For 3 Hour Rated, Add 38.89	315.36	40.24
23 33 13 19-0070 EA 36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....326.92 For 3 Hour Rated, Add 39.48	326.92	43.18
23 33 13 19-0071 EA 36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....339.95 For 3 Hour Rated, Add 40.36	339.95	45.94
23 33 13 19-0072 EA 36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....359.43 For 3 Hour Rated, Add 40.80	359.43	51.81
23 33 13 19-0073 EA 36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....370.25 For 3 Hour Rated, Add 41.24	370.25	54.57
23 33 13 19-0074 EA 36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....403.48 For 3 Hour Rated, Add 42.70	403.48	63.21
23 33 13 19-0075 EA 36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....428.07 For 3 Hour Rated, Add 44.17	428.07	69.08
23 33 13 19-0076 EA 36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....443.75 For 3 Hour Rated, Add 45.92	443.75	71.32
23 33 13 19-0077 EA 36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....471.01 For 3 Hour Rated, Add 48.27	471.01	76.50
23 33 13 19-0078 EA 36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....493.34 For 3 Hour Rated, Add 50.31	493.34	80.47
23 33 13 19-0079 EA 36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....513.69 For 3 Hour Rated, Add 52.66	513.69	83.41
23 33 13 19-0080 EA 40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....363.16 For 3 Hour Rated, Add 48.45	363.16	43.18
23 33 13 19-0081 EA 40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....377.65 For 3 Hour Rated, Add 49.62	377.65	45.94
23 33 13 19-0082 EA 40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....387.75 For 3 Hour Rated, Add 49.92	387.75	48.87
23 33 13 19-0083 EA 40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....397.85 For 3 Hour Rated, Add 50.21	397.85	51.81
23 33 13 19-0084 EA 40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....420.24 For 3 Hour Rated, Add 51.24	420.24	54.57
23 33 13 19-0085 EA 40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....434.00 For 3 Hour Rated, Add 52.26	434.00	57.50
23 33 13 19-0086 EA 40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....465.77 For 3 Hour Rated, Add 53.43	465.77	66.15
23 33 13 19-0087 EA 40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....488.89 For 3 Hour Rated, Add 54.60	488.89	71.84
23 33 13 19-0088 EA 40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....511.49 For 3 Hour Rated, Add 56.36	511.49	76.50
23 33 13 19-0089 EA 40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....539.68 For 3 Hour Rated, Add 59.58	539.68	80.47
23 33 13 19-0090 EA 40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....562.28 For 3 Hour Rated, Add 61.34	562.28	85.14
23 33 13 19-0091 EA 40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....585.30 For 3 Hour Rated, Add 64.56	585.30	87.39
23 33 13 19-0092 EA 40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....613.77 For 3 Hour Rated, Add 67.49	613.77	92.05

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0093 EA 44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	374.73	43.18
For 3 Hour Rated, Add	49.04	
23 33 13 19-0094 EA 44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	389.22	45.94
For 3 Hour Rated, Add	50.21	
23 33 13 19-0095 EA 44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	402.24	48.87
For 3 Hour Rated, Add	51.09	
23 33 13 19-0096 EA 44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	412.35	51.81
For 3 Hour Rated, Add	51.38	
23 33 13 19-0097 EA 44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	426.84	54.57
For 3 Hour Rated, Add	52.56	
23 33 13 19-0098 EA 44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	441.32	57.50
For 3 Hour Rated, Add	53.73	
23 33 13 19-0099 EA 44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	483.20	69.08
For 3 Hour Rated, Add	55.19	
23 33 13 19-0100 EA 44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	507.78	74.78
For 3 Hour Rated, Add	56.65	
23 33 13 19-0101 EA 44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	539.68	80.47
For 3 Hour Rated, Add	59.58	
23 33 13 19-0102 EA 44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	570.13	86.35
For 3 Hour Rated, Add	62.22	
23 33 13 19-0103 EA 44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	602.04	92.05
For 3 Hour Rated, Add	65.14	
23 33 13 19-0104 EA 44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	623.85	94.81
For 3 Hour Rated, Add	67.78	
23 33 13 19-0105 EA 44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	645.66	97.75
For 3 Hour Rated, Add	70.42	
23 33 13 19-0106 EA 44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	667.49	100.68
For 3 Hour Rated, Add	73.05	
23 33 13 19-0107 EA 48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	387.75	45.94
For 3 Hour Rated, Add	49.92	
23 33 13 19-0108 EA 48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	402.24	48.87
For 3 Hour Rated, Add	51.09	
23 33 13 19-0109 EA 48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	412.35	51.81
For 3 Hour Rated, Add	51.38	
23 33 13 19-0110 EA 48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	434.00	57.50
For 3 Hour Rated, Add	52.26	
23 33 13 19-0111 EA 48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	457.13	63.21
For 3 Hour Rated, Add	53.43	
23 33 13 19-0112 EA 48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	480.26	69.08
For 3 Hour Rated, Add	54.60	
23 33 13 19-0113 EA 48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	506.32	74.78
For 3 Hour Rated, Add	56.36	
23 33 13 19-0114 EA 48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	532.36	80.47
For 3 Hour Rated, Add	58.12	
23 33 13 19-0115 EA 48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	562.81	86.35
For 3 Hour Rated, Add	60.75	
23 33 13 19-0116 EA 48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	596.18	92.05
For 3 Hour Rated, Add	63.97	
23 33 13 19-0117 EA 48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	618.01	94.81
For 3 Hour Rated, Add	66.61	
23 33 13 19-0118 EA 48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	644.19	97.75
For 3 Hour Rated, Add	70.12	
23 33 13 19-0119 EA 48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	674.65	103.44
For 3 Hour Rated, Add	72.76	
23 33 13 19-0120 EA 48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	700.86	106.38
For 3 Hour Rated, Add	76.27	
23 33 13 19-0121 EA 48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	738.48	115.02
For 3 Hour Rated, Add	78.62	
23 33 13 19-0122 EA 52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	400.77	48.87
For 3 Hour Rated, Add	50.80	
23 33 13 19-0123 EA 52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	415.27	51.81
For 3 Hour Rated, Add	51.97	
23 33 13 19-0124 EA 52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	438.39	57.50
For 3 Hour Rated, Add	53.14	
23 33 13 19-0125 EA 52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	457.13	63.21
For 3 Hour Rated, Add	53.43	
23 33 13 19-0126 EA 52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	481.00	69.08
For 3 Hour Rated, Add	54.75	
23 33 13 19-0127 EA 52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	504.86	74.78
For 3 Hour Rated, Add	56.07	
23 33 13 19-0128 EA 52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	530.90	80.47
For 3 Hour Rated, Add	57.83	
23 33 13 19-0129 EA 52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	556.95	86.35
For 3 Hour Rated, Add	59.58	
23 33 13 19-0130 EA 52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	587.41	92.05
For 3 Hour Rated, Add	62.22	
23 33 13 19-0131 EA 52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	622.24	97.75
For 3 Hour Rated, Add	65.73	
23 33 13 19-0132 EA 52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	645.51	100.68
For 3 Hour Rated, Add	68.66	
23 33 13 19-0133 EA 52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	673.19	103.44
For 3 Hour Rated, Add	72.47	
23 33 13 19-0134 EA 52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	708.01	109.32
For 3 Hour Rated, Add	75.98	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0135	EA	52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	738.48	115.02
		<i>For 3 Hour Rated, Add</i>	78.62	
23 33 13 19-0136	EA	52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	781.94	123.65
		<i>For 3 Hour Rated, Add</i>	82.13	
23 33 13 19-0137	EA	52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	813.86	129.35
		<i>For 3 Hour Rated, Add</i>	85.06	
23 33 13 19-0138	EA	56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	412.35	51.81
		<i>For 3 Hour Rated, Add</i>	51.38	
23 33 13 19-0139	EA	56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	436.92	57.50
		<i>For 3 Hour Rated, Add</i>	52.85	
23 33 13 19-0140	EA	56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	458.59	63.21
		<i>For 3 Hour Rated, Add</i>	53.73	
23 33 13 19-0141	EA	56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	477.33	69.08
		<i>For 3 Hour Rated, Add</i>	54.02	
23 33 13 19-0142	EA	56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	502.66	74.78
		<i>For 3 Hour Rated, Add</i>	55.63	
23 33 13 19-0143	EA	56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	527.97	80.47
		<i>For 3 Hour Rated, Add</i>	57.24	
23 33 13 19-0144	EA	56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	553.29	86.35
		<i>For 3 Hour Rated, Add</i>	58.85	
23 33 13 19-0145	EA	56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	578.62	92.05
		<i>For 3 Hour Rated, Add</i>	60.46	
23 33 13 19-0146	EA	56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	613.44	97.75
		<i>For 3 Hour Rated, Add</i>	63.97	
23 33 13 19-0147	EA	56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	639.67	100.68
		<i>For 3 Hour Rated, Add</i>	67.49	
23 33 13 19-0148	EA	56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	664.39	103.44
		<i>For 3 Hour Rated, Add</i>	70.71	
23 33 13 19-0149	EA	56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	702.16	109.32
		<i>For 3 Hour Rated, Add</i>	74.81	
23 33 13 19-0150	EA	56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	737.01	115.02
		<i>For 3 Hour Rated, Add</i>	78.32	
23 33 13 19-0151	EA	56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	773.30	120.72
		<i>For 3 Hour Rated, Add</i>	82.13	
23 33 13 19-0152	EA	56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	805.22	126.58
		<i>For 3 Hour Rated, Add</i>	85.06	
23 33 13 19-0153	EA	56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	841.52	132.29
		<i>For 3 Hour Rated, Add</i>	88.86	
23 33 13 19-0154	EA	56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	877.82	137.99
		<i>For 3 Hour Rated, Add</i>	92.67	
23 33 13 19-0155	EA	60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	434.00	57.50
		<i>For 3 Hour Rated, Add</i>	52.26	
23 33 13 19-0156	EA	60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	458.59	63.21
		<i>For 3 Hour Rated, Add</i>	53.73	
23 33 13 19-0157	EA	60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	478.80	69.08
		<i>For 3 Hour Rated, Add</i>	54.31	
23 33 13 19-0158	EA	60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	497.53	74.78
		<i>For 3 Hour Rated, Add</i>	54.60	
23 33 13 19-0159	EA	60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	523.58	80.47
		<i>For 3 Hour Rated, Add</i>	56.36	
23 33 13 19-0160	EA	60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	549.63	86.35
		<i>For 3 Hour Rated, Add</i>	58.12	
23 33 13 19-0161	EA	60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	576.42	92.05
		<i>For 3 Hour Rated, Add</i>	60.02	
23 33 13 19-0162	EA	60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	603.21	97.75
		<i>For 3 Hour Rated, Add</i>	61.93	
23 33 13 19-0163	EA	60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	630.88	100.68
		<i>For 3 Hour Rated, Add</i>	65.73	
23 33 13 19-0164	EA	60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	657.07	103.44
		<i>For 3 Hour Rated, Add</i>	69.24	
23 33 13 19-0165	EA	60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	693.39	109.32
		<i>For 3 Hour Rated, Add</i>	73.05	
23 33 13 19-0166	EA	60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	729.70	115.02
		<i>For 3 Hour Rated, Add</i>	76.86	
23 33 13 19-0167	EA	60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	761.60	120.72
		<i>For 3 Hour Rated, Add</i>	79.79	
23 33 13 19-0168	EA	60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	802.29	126.58
		<i>For 3 Hour Rated, Add</i>	84.47	
23 33 13 19-0169	EA	60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	840.06	132.29
		<i>For 3 Hour Rated, Add</i>	88.57	
23 33 13 19-0170	EA	60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	877.82	137.99
		<i>For 3 Hour Rated, Add</i>	92.67	
23 33 13 19-0171	EA	60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	912.65	143.86
		<i>For 3 Hour Rated, Add</i>	96.18	
23 33 13 19-0172	EA	60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	947.51	149.55
		<i>For 3 Hour Rated, Add</i>	99.70	
23 33 13 19-0173		Smoke Damper (23 33 13 19)		
		Note: Leakage class I with Firestat UL 555S air foil blades.		
23 33 13 19-0174	EA	6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	86.91	12.78
		<i>For Dynamic Damper, Add</i>	10.93	
		<i>For 3 Hour Rated, Add</i>	9.71	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0175	EA	8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	89.85	13.35	
		For Dynamic Damper, Add	11.20		
		For 3 Hour Rated, Add	9.96		
23 33 13 19-0176	EA	8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	91.32	13.47	
		For Dynamic Damper, Add	11.48		
		For 3 Hour Rated, Add	10.21		
23 33 13 19-0177	EA	10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	91.32	13.47	
		For Dynamic Damper, Add	11.48		
		For 3 Hour Rated, Add	10.21		
23 33 13 19-0178	EA	10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	93.71	13.82	
		For Dynamic Damper, Add	11.76		
		For 3 Hour Rated, Add	10.45		
23 33 13 19-0179	EA	10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	100.76	15.31	
		For Dynamic Damper, Add	12.31		
		For 3 Hour Rated, Add	10.94		
23 33 13 19-0180	EA	12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	93.71	13.82	
		For Dynamic Damper, Add	11.76		
		For 3 Hour Rated, Add	10.45		
23 33 13 19-0181	EA	12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	98.46	14.62	
		For Dynamic Damper, Add	12.31		
		For 3 Hour Rated, Add	10.94		
23 33 13 19-0182	EA	12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	102.00	15.31	
		For Dynamic Damper, Add	12.59		
		For 3 Hour Rated, Add	11.19		
23 33 13 19-0183	EA	12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	108.98	17.27	
		For Dynamic Damper, Add	12.86		
		For 3 Hour Rated, Add	11.43		
23 33 13 19-0184	EA	14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	97.85	14.62	
		For Dynamic Damper, Add	12.17		
		For 3 Hour Rated, Add	10.82		
23 33 13 19-0185	EA	14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	102.00	15.31	
		For Dynamic Damper, Add	12.59		
		For 3 Hour Rated, Add	11.19		
23 33 13 19-0186	EA	14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.52	16.12	
		For Dynamic Damper, Add	12.86		
		For 3 Hour Rated, Add	11.43		
23 33 13 19-0187	EA	14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	110.22	17.27	
		For Dynamic Damper, Add	13.14		
		For 3 Hour Rated, Add	11.68		
23 33 13 19-0188	EA	14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	119.04	19.23	
		For Dynamic Damper, Add	13.83		
		For 3 Hour Rated, Add	12.30		
23 33 13 19-0189	EA	16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	146.78	15.31	
		For Dynamic Damper, Add	22.66		
		For 3 Hour Rated, Add	20.15		
23 33 13 19-0190	EA	16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	151.47	16.47	
		For Dynamic Damper, Add	22.94		
		For 3 Hour Rated, Add	20.39		
23 33 13 19-0191	EA	16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	157.30	18.08	
		For Dynamic Damper, Add	23.22		
		For 3 Hour Rated, Add	20.64		
23 33 13 19-0192	EA	16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	161.97	19.23	
		For Dynamic Damper, Add	23.49		
		For 3 Hour Rated, Add	20.88		
23 33 13 19-0193	EA	16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	170.82	21.07	
		For Dynamic Damper, Add	24.19		
		For 3 Hour Rated, Add	21.50		
23 33 13 19-0194	EA	16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.65	23.03	
		For Dynamic Damper, Add	24.88		
		For 3 Hour Rated, Add	22.11		
23 33 13 19-0195	EA	18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	150.31	16.12	
		For Dynamic Damper, Add	22.94		
		For 3 Hour Rated, Add	20.39		
23 33 13 19-0196	EA	18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	155.61	17.27	
		For Dynamic Damper, Add	23.36		
		For 3 Hour Rated, Add	20.76		
23 33 13 19-0197	EA	18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	163.22	19.23	
		For Dynamic Damper, Add	23.77		
		For 3 Hour Rated, Add	21.13		
23 33 13 19-0198	EA	18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	172.05	21.07	
		For Dynamic Damper, Add	24.46		
		For 3 Hour Rated, Add	21.75		
23 33 13 19-0199	EA	18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	180.26	23.03	
		For Dynamic Damper, Add	25.02		
		For 3 Hour Rated, Add	22.24		
23 33 13 19-0200	EA	18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	189.10	24.87	
		For Dynamic Damper, Add	25.71		
		For 3 Hour Rated, Add	22.85		
23 33 13 19-0201	EA	18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	196.70	26.83	
		For Dynamic Damper, Add	26.12		
		For 3 Hour Rated, Add	23.22		
23 33 13 19-0202	EA	20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	155.00	17.27	
		For Dynamic Damper, Add	23.22		
		For 3 Hour Rated, Add	20.64		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0203 EA 20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....163.21		19.23
For Dynamic Damper, Add	23.77	
For 3 Hour Rated, Add	21.13	
23 33 13 19-0204 EA 20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....171.43		21.07
For Dynamic Damper, Add	24.32	
For 3 Hour Rated, Add	21.62	
23 33 13 19-0205 EA 20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....182.12		23.03
For Dynamic Damper, Add	25.43	
For 3 Hour Rated, Add	22.61	
23 33 13 19-0206 EA 20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....189.72		24.87
For Dynamic Damper, Add	25.85	
For 3 Hour Rated, Add	22.98	
23 33 13 19-0207 EA 20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....197.32		26.83
For Dynamic Damper, Add	26.26	
For 3 Hour Rated, Add	23.35	
23 33 13 19-0208 EA 20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....205.53		28.79
For Dynamic Damper, Add	26.82	
For 3 Hour Rated, Add	23.84	
23 33 13 19-0209 EA 20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....213.75		30.63
For Dynamic Damper, Add	27.37	
For 3 Hour Rated, Add	24.33	
23 33 13 19-0210 EA 24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....200.26		19.23
For Dynamic Damper, Add	32.11	
For 3 Hour Rated, Add	28.54	
23 33 13 19-0211 EA 24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....209.72		21.07
For Dynamic Damper, Add	32.94	
For 3 Hour Rated, Add	29.28	
23 33 13 19-0212 EA 24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....217.95		23.03
For Dynamic Damper, Add	33.50	
For 3 Hour Rated, Add	29.77	
23 33 13 19-0213 EA 24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....227.40		24.87
For Dynamic Damper, Add	34.33	
For 3 Hour Rated, Add	30.51	
23 33 13 19-0214 EA 24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....234.99		26.83
For Dynamic Damper, Add	34.74	
For 3 Hour Rated, Add	30.88	
23 33 13 19-0215 EA 24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....242.59		28.79
For Dynamic Damper, Add	35.15	
For 3 Hour Rated, Add	31.25	
23 33 13 19-0216 EA 24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....252.04		30.63
For Dynamic Damper, Add	35.98	
For 3 Hour Rated, Add	31.99	
23 33 13 19-0217 EA 24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....267.23		34.53
For Dynamic Damper, Add	36.81	
For 3 Hour Rated, Add	32.72	
23 33 13 19-0218 EA 24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....283.67		38.34
For Dynamic Damper, Add	37.92	
For 3 Hour Rated, Add	33.71	
23 33 13 19-0219 EA 28" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....209.72		21.07
For Dynamic Damper, Add	32.94	
For 3 Hour Rated, Add	29.28	
23 33 13 19-0220 EA 28" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....217.95		23.03
For Dynamic Damper, Add	33.50	
For 3 Hour Rated, Add	29.77	
23 33 13 19-0221 EA 28" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....227.40		24.87
For Dynamic Damper, Add	34.33	
For 3 Hour Rated, Add	30.51	
23 33 13 19-0222 EA 28" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....235.60		26.83
For Dynamic Damper, Add	34.88	
For 3 Hour Rated, Add	31.00	
23 33 13 19-0223 EA 28" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....244.43		28.79
For Dynamic Damper, Add	35.57	
For 3 Hour Rated, Add	31.62	
23 33 13 19-0224 EA 28" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....253.26		30.63
For Dynamic Damper, Add	36.26	
For 3 Hour Rated, Add	32.23	
23 33 13 19-0225 EA 28" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....268.45		34.53
For Dynamic Damper, Add	37.09	
For 3 Hour Rated, Add	32.97	
23 33 13 19-0226 EA 28" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....283.67		38.34
For Dynamic Damper, Add	37.92	
For 3 Hour Rated, Add	33.71	
23 33 13 19-0227 EA 28" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....296.81		40.29
For Dynamic Damper, Add	39.58	
For 3 Hour Rated, Add	35.18	
23 33 13 19-0228 EA 28" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....314.47		44.09
For Dynamic Damper, Add	40.97	
For 3 Hour Rated, Add	36.41	
23 33 13 19-0229 EA 32" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....221.64		23.03
For Dynamic Damper, Add	34.33	
For 3 Hour Rated, Add	30.51	
23 33 13 19-0230 EA 32" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....228.61		24.87
For Dynamic Damper, Add	34.60	
For 3 Hour Rated, Add	30.75	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0231 EA 32" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	235.60 34.88 31.00	26.83
23 33 13 19-0232 EA 32" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	243.81 35.43 31.49	28.79
23 33 13 19-0233 EA 32" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	253.50 36.31 32.28	30.63
23 33 13 19-0234 EA 32" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	268.45 37.09 32.97	34.53
23 33 13 19-0235 EA 32" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	284.90 38.20 33.95	38.34
23 33 13 19-0236 EA 32" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	301.34 39.31 34.94	42.14
23 33 13 19-0237 EA 32" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	314.47 40.97 36.41	44.09
23 33 13 19-0238 EA 32" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	332.30 42.91 38.14	47.20
23 33 13 19-0239 EA 32" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	350.19 45.12 40.10	49.85
23 33 13 19-0240 EA 36" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	233.19 35.63 31.67	24.87
23 33 13 19-0241 EA 36" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	241.51 36.21 32.18	26.83
23 33 13 19-0242 EA 36" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	249.84 36.79 32.70	28.79
23 33 13 19-0243 EA 36" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	259.47 37.66 33.47	30.63
23 33 13 19-0244 EA 36" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	272.92 38.09 33.86	34.53
23 33 13 19-0245 EA 36" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	280.61 38.53 34.25	36.38
23 33 13 19-0246 EA 36" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	304.32 39.98 35.54	42.14
23 33 13 19-0247 EA 36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	322.27 41.42 36.82	46.05
23 33 13 19-0248 EA 36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	334.61 43.17 38.37	47.55
23 33 13 19-0249 EA 36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	355.27 45.48 40.43	51.00
23 33 13 19-0250 EA 36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	372.36 47.51 42.23	53.66
23 33 13 19-0251 EA 36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	388.42 49.83 44.30	55.60
23 33 13 19-0252 EA 40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	267.09 41.96 37.30	28.79
23 33 13 19-0253 EA 40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	278.00 43.12 38.33	30.63
23 33 13 19-0254 EA 40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	285.05 43.41 38.59	32.59
23 33 13 19-0255 EA 40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	292.10 43.70 38.85	34.53
23 33 13 19-0256 EA 40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	308.12 44.72 39.75	36.38
23 33 13 19-0257 EA 40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	318.39 45.73 40.65	38.34
23 33 13 19-0258 EA 40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	340.81 46.89 41.68	44.09

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0259	EA		40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	357.49	47.90
			For Dynamic Damper, Add	48.05	
			For 3 Hour Rated, Add	42.71	
23 33 13 19-0260	EA		40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	374.42	51.00
			For Dynamic Damper, Add	49.79	
			For 3 Hour Rated, Add	44.26	
23 33 13 19-0261	EA		40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	396.66	53.66
			For Dynamic Damper, Add	52.98	
			For 3 Hour Rated, Add	47.09	
23 33 13 19-0262	EA		40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	413.58	56.76
			For Dynamic Damper, Add	54.72	
			For 3 Hour Rated, Add	48.64	
23 33 13 19-0263	EA		40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	432.37	58.26
			For Dynamic Damper, Add	57.91	
			For 3 Hour Rated, Add	51.47	
23 33 13 19-0264	EA		40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	454.47	61.36
			For Dynamic Damper, Add	60.81	
			For 3 Hour Rated, Add	54.05	
23 33 13 19-0265	EA		44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	275.43	28.79
			For Dynamic Damper, Add	42.54	
			For 3 Hour Rated, Add	37.82	
23 33 13 19-0266	EA		44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	286.34	30.63
			For Dynamic Damper, Add	43.70	
			For 3 Hour Rated, Add	38.85	
23 33 13 19-0267	EA		44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	295.98	32.59
			For Dynamic Damper, Add	44.57	
			For 3 Hour Rated, Add	39.62	
23 33 13 19-0268	EA		44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	303.01	34.53
			For Dynamic Damper, Add	44.87	
			For 3 Hour Rated, Add	39.88	
23 33 13 19-0269	EA		44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	313.92	36.38
			For Dynamic Damper, Add	46.02	
			For 3 Hour Rated, Add	40.91	
23 33 13 19-0270	EA		44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	324.83	38.34
			For Dynamic Damper, Add	47.18	
			For 3 Hour Rated, Add	41.94	
23 33 13 19-0271	EA		44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	354.31	46.05
			For Dynamic Damper, Add	48.63	
			For 3 Hour Rated, Add	43.23	
23 33 13 19-0272	EA		44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	372.25	49.85
			For Dynamic Damper, Add	50.08	
			For 3 Hour Rated, Add	44.52	
23 33 13 19-0273	EA		44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	396.66	53.66
			For Dynamic Damper, Add	52.98	
			For 3 Hour Rated, Add	47.09	
23 33 13 19-0274	EA		44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	419.76	57.56
			For Dynamic Damper, Add	55.59	
			For 3 Hour Rated, Add	49.41	
23 33 13 19-0275	EA		44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	444.15	61.36
			For Dynamic Damper, Add	58.49	
			For 3 Hour Rated, Add	51.99	
23 33 13 19-0276	EA		44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	461.50	63.21
			For Dynamic Damper, Add	61.10	
			For 3 Hour Rated, Add	54.31	
23 33 13 19-0277	EA		44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	478.86	65.16
			For Dynamic Damper, Add	63.71	
			For 3 Hour Rated, Add	56.63	
23 33 13 19-0278	EA		44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	496.22	67.12
			For Dynamic Damper, Add	66.32	
			For 3 Hour Rated, Add	58.95	
23 33 13 19-0279	EA		48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	285.05	30.63
			For Dynamic Damper, Add	43.41	
			For 3 Hour Rated, Add	38.59	
23 33 13 19-0280	EA		48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	295.98	32.59
			For Dynamic Damper, Add	44.57	
			For 3 Hour Rated, Add	39.62	
23 33 13 19-0281	EA		48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	303.01	34.53
			For Dynamic Damper, Add	44.87	
			For 3 Hour Rated, Add	39.88	
23 33 13 19-0282	EA		48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	318.39	38.34
			For Dynamic Damper, Add	45.73	
			For 3 Hour Rated, Add	40.65	
23 33 13 19-0283	EA		48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	335.05	42.14
			For Dynamic Damper, Add	46.89	
			For 3 Hour Rated, Add	41.68	
23 33 13 19-0284	EA		48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	351.73	46.05
			For Dynamic Damper, Add	48.05	
			For 3 Hour Rated, Add	42.71	
23 33 13 19-0285	EA		48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	370.97	49.85
			For Dynamic Damper, Add	49.79	
			For 3 Hour Rated, Add	44.26	
23 33 13 19-0286	EA		48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	390.21	53.66
			For Dynamic Damper, Add	51.53	
			For 3 Hour Rated, Add	45.80	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Duct Accessories			23 33

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0287 EA 48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	413.31 54.14 48.12	57.56
23 33 13 19-0288 EA 48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	439.00 57.33 50.96	61.36
23 33 13 19-0289 EA 48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	456.36 59.94 53.28	63.21
23 33 13 19-0290 EA 48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	477.57 63.42 56.37	65.16
23 33 13 19-0291 EA 48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	500.69 66.03 58.69	68.96
23 33 13 19-0292 EA 48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	521.90 69.50 61.78	70.92
23 33 13 19-0293 EA 48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	549.48 71.82 63.84	76.68
23 33 13 19-0294 EA 52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	294.69 44.28 39.36	32.59
23 33 13 19-0295 EA 52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	305.58 45.44 40.39	34.53
23 33 13 19-0296 EA 52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	322.25 46.60 41.42	38.34
23 33 13 19-0297 EA 52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	335.05 46.89 41.68	42.14
23 33 13 19-0298 EA 52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	352.38 48.20 42.84	46.05
23 33 13 19-0299 EA 52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	369.68 49.50 44.00	49.85
23 33 13 19-0300 EA 52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	388.93 51.24 45.55	53.66
23 33 13 19-0301 EA 52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	408.16 52.98 47.09	57.56
23 33 13 19-0302 EA 52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	431.28 55.59 49.41	61.36
23 33 13 19-0303 EA 52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	458.24 59.07 52.50	65.16
23 33 13 19-0304 EA 52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	476.88 61.97 55.08	67.12
23 33 13 19-0305 EA 52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	499.40 65.74 58.43	68.96
23 33 13 19-0306 EA 52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	526.36 69.21 61.52	72.88
23 33 13 19-0307 EA 52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	549.48 71.82 63.84	76.68
23 33 13 19-0308 EA 52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	582.21 75.30 66.94	82.43
23 33 13 19-0309 EA 52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	606.61 78.20 69.51	86.23
23 33 13 19-0310 EA 56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	303.01 44.87 39.88	34.53
23 33 13 19-0311 EA 56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	320.96 46.31 41.17	38.34
23 33 13 19-0312 EA 56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	336.34 47.18 41.94	42.14
23 33 13 19-0313 EA 56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	349.14 47.47 42.20	46.05
23 33 13 19-0314 EA 56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	367.75 49.07 43.62	49.85

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0315	EA	56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	386.35	53.66
		For Dynamic Damper, Add	50.66	
		For 3 Hour Rated, Add	45.03	
23 33 13 19-0316	EA	56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	404.94	57.56
		For Dynamic Damper, Add	52.26	
		For 3 Hour Rated, Add	46.45	
23 33 13 19-0317	EA	56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	423.54	61.36
		For Dynamic Damper, Add	53.85	
		For 3 Hour Rated, Add	47.87	
23 33 13 19-0318	EA	56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	450.51	65.16
		For Dynamic Damper, Add	57.33	
		For 3 Hour Rated, Add	50.96	
23 33 13 19-0319	EA	56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	471.74	67.12
		For Dynamic Damper, Add	60.81	
		For 3 Hour Rated, Add	54.05	
23 33 13 19-0320	EA	56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	491.67	68.96
		For Dynamic Damper, Add	64.00	
		For 3 Hour Rated, Add	56.89	
23 33 13 19-0321	EA	56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	521.22	72.88
		For Dynamic Damper, Add	68.06	
		For 3 Hour Rated, Add	60.49	
23 33 13 19-0322	EA	56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	548.19	76.68
		For Dynamic Damper, Add	71.53	
		For 3 Hour Rated, Add	63.59	
23 33 13 19-0323	EA	56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	576.45	80.47
		For Dynamic Damper, Add	75.30	
		For 3 Hour Rated, Add	66.94	
23 33 13 19-0324	EA	56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	600.86	84.39
		For Dynamic Damper, Add	78.20	
		For 3 Hour Rated, Add	69.51	
23 33 13 19-0325	EA	56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	629.12	88.19
		For Dynamic Damper, Add	81.97	
		For 3 Hour Rated, Add	72.86	
23 33 13 19-0326	EA	56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	657.39	91.99
		For Dynamic Damper, Add	85.74	
		For 3 Hour Rated, Add	76.21	
23 33 13 19-0327	EA	60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	318.39	38.34
		For Dynamic Damper, Add	45.73	
		For 3 Hour Rated, Add	40.65	
23 33 13 19-0328	EA	60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	336.34	42.14
		For Dynamic Damper, Add	47.18	
		For 3 Hour Rated, Add	41.94	
23 33 13 19-0329	EA	60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	350.43	46.05
		For Dynamic Damper, Add	47.76	
		For 3 Hour Rated, Add	42.45	
23 33 13 19-0330	EA	60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	363.24	49.85
		For Dynamic Damper, Add	48.05	
		For 3 Hour Rated, Add	42.71	
23 33 13 19-0331	EA	60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	382.49	53.66
		For Dynamic Damper, Add	49.79	
		For 3 Hour Rated, Add	44.26	
23 33 13 19-0332	EA	60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	401.71	57.56
		For Dynamic Damper, Add	51.53	
		For 3 Hour Rated, Add	45.80	
23 33 13 19-0333	EA	60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	421.61	61.36
		For Dynamic Damper, Add	53.42	
		For 3 Hour Rated, Add	47.48	
23 33 13 19-0334	EA	60" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	441.49	65.16
		For Dynamic Damper, Add	55.30	
		For 3 Hour Rated, Add	49.15	
23 33 13 19-0335	EA	60" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	464.00	67.12
		For Dynamic Damper, Add	59.07	
		For 3 Hour Rated, Add	52.50	
23 33 13 19-0336	EA	60" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	485.22	68.96
		For Dynamic Damper, Add	62.55	
		For 3 Hour Rated, Add	55.60	
23 33 13 19-0337	EA	60" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	513.49	72.88
		For Dynamic Damper, Add	66.32	
		For 3 Hour Rated, Add	58.95	
23 33 13 19-0338	EA	60" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	541.75	76.68
		For Dynamic Damper, Add	70.09	
		For 3 Hour Rated, Add	62.30	
23 33 13 19-0339	EA	60" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	566.14	80.47
		For Dynamic Damper, Add	72.98	
		For 3 Hour Rated, Add	64.87	
23 33 13 19-0340	EA	60" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	598.27	84.39
		For Dynamic Damper, Add	77.62	
		For 3 Hour Rated, Add	69.00	
23 33 13 19-0341	EA	60" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	627.82	88.19
		For Dynamic Damper, Add	81.68	
		For 3 Hour Rated, Add	72.60	
23 33 13 19-0342	EA	60" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	657.39	91.99
		For Dynamic Damper, Add	85.74	
		For 3 Hour Rated, Add	76.21	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0343	EA	60" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	684.34	95.91
		For Dynamic Damper, Add		89.21	
		For 3 Hour Rated, Add		79.30	
23 33 13 19-0344	EA	60" x 60" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	.....	711.33	99.70
		For Dynamic Damper, Add		92.70	
		For 3 Hour Rated, Add		82.40	
23 33 13 23 Backdraft Dampers (23 33 13)					
23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)					
Note: Galvanized steel frame, aluminum blades. Exclude motor pack.					
23 33 13 23-0002	EA	6" x 6" Horizontally Mounted Backdraft Damper	.....	60.79	12.78
23 33 13 23-0003	EA	8" x 6" Horizontally Mounted Backdraft Damper	.....	69.98	13.35
23 33 13 23-0004	EA	8" x 8" Horizontally Mounted Backdraft Damper	.....	80.19	13.47
23 33 13 23-0005	EA	10" x 6" Horizontally Mounted Backdraft Damper	.....	77.70	13.47
23 33 13 23-0006	EA	10" x 8" Horizontally Mounted Backdraft Damper	.....	75.89	13.82
23 33 13 23-0007	EA	10" x 10" Horizontally Mounted Backdraft Damper	.....	89.10	15.31
23 33 13 23-0008	EA	12" x 6" Horizontally Mounted Backdraft Damper	.....	72.45	13.82
23 33 13 23-0009	EA	12" x 8" Horizontally Mounted Backdraft Damper	.....	87.38	15.31
23 33 13 23-0010	EA	12" x 10" Horizontally Mounted Backdraft Damper	.....	85.97	16.12
23 33 13 23-0011	EA	12" x 12" Horizontally Mounted Backdraft Damper	.....	96.96	17.27
23 33 13 23-0012	EA	14" x 6" Horizontally Mounted Backdraft Damper	.....	79.91	14.62
23 33 13 23-0013	EA	14" x 8" Horizontally Mounted Backdraft Damper	.....	83.46	16.12
23 33 13 23-0014	EA	14" x 10" Horizontally Mounted Backdraft Damper	.....	95.71	17.27
23 33 13 23-0015	EA	14" x 12" Horizontally Mounted Backdraft Damper	.....	91.33	19.23
23 33 13 23-0016	EA	14" x 14" Horizontally Mounted Backdraft Damper	.....	102.72	21.07
23 33 13 23-0017	EA	16" x 6" Horizontally Mounted Backdraft Damper	.....	87.38	15.31
23 33 13 23-0018	EA	16" x 8" Horizontally Mounted Backdraft Damper	.....	91.94	17.27
23 33 13 23-0019	EA	16" x 10" Horizontally Mounted Backdraft Damper	.....	89.72	19.23
23 33 13 23-0020	EA	16" x 12" Horizontally Mounted Backdraft Damper	.....	96.15	19.23
23 33 13 23-0021	EA	16" x 14" Horizontally Mounted Backdraft Damper	.....	108.34	21.07
23 33 13 23-0022	EA	16" x 16" Horizontally Mounted Backdraft Damper	.....	120.53	23.03
23 33 13 23-0023	EA	18" x 6" Horizontally Mounted Backdraft Damper	.....	82.21	16.12
23 33 13 23-0024	EA	18" x 8" Horizontally Mounted Backdraft Damper	.....	80.75	17.27
23 33 13 23-0025	EA	18" x 10" Horizontally Mounted Backdraft Damper	.....	93.73	19.23
23 33 13 23-0026	EA	18" x 12" Horizontally Mounted Backdraft Damper	.....	106.73	21.07
23 33 13 23-0027	EA	18" x 14" Horizontally Mounted Backdraft Damper	.....	119.72	23.03
23 33 13 23-0028	EA	18" x 16" Horizontally Mounted Backdraft Damper	.....	134.57	24.87
23 33 13 23-0029	EA	18" x 18" Horizontally Mounted Backdraft Damper	.....	153.55	28.79
23 33 13 23-0030	EA	18" x 20" Horizontally Mounted Backdraft Damper	.....	137.40	30.63
23 33 13 23-0031	EA	18" x 24" Horizontally Mounted Backdraft Damper	.....	157.95	34.53
23 33 13 23-0032	EA	20" x 6" Horizontally Mounted Backdraft Damper	.....	89.43	17.27
23 33 13 23-0033	EA	20" x 8" Horizontally Mounted Backdraft Damper	.....	89.72	19.23
23 33 13 23-0034	EA	20" x 10" Horizontally Mounted Backdraft Damper	.....	103.51	21.07
23 33 13 23-0035	EA	20" x 12" Horizontally Mounted Backdraft Damper	.....	117.32	23.03
23 33 13 23-0036	EA	20" x 14" Horizontally Mounted Backdraft Damper	.....	132.92	24.87
23 33 13 23-0037	EA	20" x 16" Horizontally Mounted Backdraft Damper	.....	146.96	26.83
23 33 13 23-0038	EA	20" x 18" Horizontally Mounted Backdraft Damper	.....	137.40	30.63
23 33 13 23-0039	EA	20" x 20" Horizontally Mounted Backdraft Damper	.....	142.43	30.63
23 33 13 23-0040	EA	20" x 24" Horizontally Mounted Backdraft Damper	.....	163.99	34.53
23 33 13 23-0041	EA	20" x 28" Horizontally Mounted Backdraft Damper	.....	185.56	38.34
23 33 13 23-0042	EA	20" x 32" Horizontally Mounted Backdraft Damper	.....	184.14	42.14
23 33 13 23-0043	EA	20" x 36" Horizontally Mounted Backdraft Damper	.....	202.84	46.05
23 33 13 23-0044	EA	24" x 6" Horizontally Mounted Backdraft Damper	.....	86.50	19.23
23 33 13 23-0045	EA	24" x 8" Horizontally Mounted Backdraft Damper	.....	101.91	21.07
23 33 13 23-0046	EA	24" x 10" Horizontally Mounted Backdraft Damper	.....	117.32	23.03
23 33 13 23-0047	EA	24" x 12" Horizontally Mounted Backdraft Damper	.....	134.57	24.87
23 33 13 23-0048	EA	24" x 14" Horizontally Mounted Backdraft Damper	.....	128.61	28.79
23 33 13 23-0049	EA	24" x 16" Horizontally Mounted Backdraft Damper	.....	140.41	30.63
23 33 13 23-0050	EA	24" x 18" Horizontally Mounted Backdraft Damper	.....	157.95	34.53
23 33 13 23-0051	EA	24" x 20" Horizontally Mounted Backdraft Damper	.....	163.99	34.53
23 33 13 23-0052	EA	24" x 24" Horizontally Mounted Backdraft Damper	.....	187.58	38.34
23 33 13 23-0053	EA	24" x 28" Horizontally Mounted Backdraft Damper	.....	187.00	42.14
23 33 13 23-0054	EA	24" x 32" Horizontally Mounted Backdraft Damper	.....	207.16	46.05
23 33 13 23-0055	EA	24" x 36" Horizontally Mounted Backdraft Damper	.....	227.29	49.85
23 33 13 23-0056	EA	24" x 40" Horizontally Mounted Backdraft Damper	.....	230.19	53.66
23 33 13 23-0057	EA	24" x 44" Horizontally Mounted Backdraft Damper	.....	248.58	57.56
23 33 13 23-0058	EA	24" x 48" Horizontally Mounted Backdraft Damper	.....	255.48	57.56
23 33 13 23-0059	EA	28" x 6" Horizontally Mounted Backdraft Damper	.....	91.33	19.23
23 33 13 23-0060	EA	28" x 8" Horizontally Mounted Backdraft Damper	.....	108.34	21.07
23 33 13 23-0061	EA	28" x 10" Horizontally Mounted Backdraft Damper	.....	132.92	24.87
23 33 13 23-0062	EA	28" x 12" Horizontally Mounted Backdraft Damper	.....	128.61	28.79
23 33 13 23-0063	EA	28" x 14" Horizontally Mounted Backdraft Damper	.....	141.42	30.63
23 33 13 23-0064	EA	28" x 16" Horizontally Mounted Backdraft Damper	.....	159.96	34.53
23 33 13 23-0065	EA	28" x 18" Horizontally Mounted Backdraft Damper	.....	178.53	38.34
23 33 13 23-0066	EA	28" x 20" Horizontally Mounted Backdraft Damper	.....	185.56	38.34
23 33 13 23-0067	EA	28" x 24" Horizontally Mounted Backdraft Damper	.....	187.00	42.14
23 33 13 23-0068	EA	28" x 28" Horizontally Mounted Backdraft Damper	.....	208.59	46.05
23 33 13 23-0069	EA	28" x 32" Horizontally Mounted Backdraft Damper	.....	230.16	49.85
23 33 13 23-0070	EA	28" x 36" Horizontally Mounted Backdraft Damper	.....	245.13	57.56
23 33 13 23-0071	EA	28" x 40" Horizontally Mounted Backdraft Damper	.....	253.18	57.56

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0072 EA 28" x 44" Horizontally Mounted Backdraft Damper	272.75	61.36
23 33 13 23-0073 EA 28" x 48" Horizontally Mounted Backdraft Damper	292.31	65.16
23 33 13 23-0074 EA 28" x 52" Horizontally Mounted Backdraft Damper	300.36	65.16
23 33 13 23-0075 EA 28" x 56" Horizontally Mounted Backdraft Damper	305.85	68.96
23 33 13 23-0076 EA 28" x 60" Horizontally Mounted Backdraft Damper	312.88	68.96
23 33 13 23-0077 EA 32" x 6" Horizontally Mounted Backdraft Damper	101.91	21.07
23 33 13 23-0078 EA 32" x 8" Horizontally Mounted Backdraft Damper	127.94	24.87
23 33 13 23-0079 EA 32" x 10" Horizontally Mounted Backdraft Damper	146.96	26.83
23 33 13 23-0080 EA 32" x 12" Horizontally Mounted Backdraft Damper	140.41	30.63
23 33 13 23-0081 EA 32" x 14" Horizontally Mounted Backdraft Damper	159.96	34.53
23 33 13 23-0082 EA 32" x 16" Horizontally Mounted Backdraft Damper	179.53	38.34
23 33 13 23-0083 EA 32" x 18" Horizontally Mounted Backdraft Damper	166.87	38.34
23 33 13 23-0084 EA 32" x 20" Horizontally Mounted Backdraft Damper	184.14	42.14
23 33 13 23-0085 EA 32" x 24" Horizontally Mounted Backdraft Damper	207.16	46.05
23 33 13 23-0086 EA 32" x 28" Horizontally Mounted Backdraft Damper	230.16	49.85
23 33 13 23-0087 EA 32" x 32" Horizontally Mounted Backdraft Damper	246.28	57.56
23 33 13 23-0088 EA 32" x 36" Horizontally Mounted Backdraft Damper	255.48	57.56
23 33 13 23-0089 EA 32" x 40" Horizontally Mounted Backdraft Damper	276.20	61.36
23 33 13 23-0090 EA 32" x 44" Horizontally Mounted Backdraft Damper	296.91	65.16
23 33 13 23-0091 EA 32" x 48" Horizontally Mounted Backdraft Damper	303.83	68.96
23 33 13 23-0092 EA 32" x 52" Horizontally Mounted Backdraft Damper	311.88	68.96
23 33 13 23-0093 EA 32" x 56" Horizontally Mounted Backdraft Damper	331.44	72.88
23 33 13 23-0094 EA 32" x 60" Horizontally Mounted Backdraft Damper	339.49	72.88
23 33 13 23-0095 EA 32" x 64" Horizontally Mounted Backdraft Damper	340.65	76.68
23 33 13 23-0096 EA 32" x 68" Horizontally Mounted Backdraft Damper	347.54	76.68
23 33 13 23-0097 EA 32" x 72" Horizontally Mounted Backdraft Damper	365.95	80.47
23 33 13 23-0098 EA 36" x 6" Horizontally Mounted Backdraft Damper	106.73	21.07
23 33 13 23-0099 EA 36" x 8" Horizontally Mounted Backdraft Damper	140.32	26.83
23 33 13 23-0100 EA 36" x 10" Horizontally Mounted Backdraft Damper	137.40	30.63
23 33 13 23-0101 EA 36" x 12" Horizontally Mounted Backdraft Damper	157.95	34.53
23 33 13 23-0102 EA 36" x 14" Horizontally Mounted Backdraft Damper	178.53	38.34
23 33 13 23-0103 EA 36" x 16" Horizontally Mounted Backdraft Damper	166.87	38.34
23 33 13 23-0104 EA 36" x 18" Horizontally Mounted Backdraft Damper	184.85	42.14
23 33 13 23-0105 EA 36" x 20" Horizontally Mounted Backdraft Damper	202.84	46.05
23 33 13 23-0106 EA 36" x 24" Horizontally Mounted Backdraft Damper	227.29	49.85
23 33 13 23-0107 EA 36" x 28" Horizontally Mounted Backdraft Damper	245.13	57.56
23 33 13 23-0108 EA 36" x 32" Horizontally Mounted Backdraft Damper	255.48	57.56
23 33 13 23-0109 EA 36" x 36" Horizontally Mounted Backdraft Damper	277.35	61.36
23 33 13 23-0110 EA 36" x 40" Horizontally Mounted Backdraft Damper	299.21	65.16
23 33 13 23-0111 EA 36" x 44" Horizontally Mounted Backdraft Damper	306.84	68.96
23 33 13 23-0112 EA 36" x 48" Horizontally Mounted Backdraft Damper	327.41	72.88
23 33 13 23-0113 EA 36" x 52" Horizontally Mounted Backdraft Damper	336.47	72.88
23 33 13 23-0114 EA 36" x 56" Horizontally Mounted Backdraft Damper	338.92	76.68
23 33 13 23-0115 EA 36" x 60" Horizontally Mounted Backdraft Damper	346.68	76.68
23 33 13 23-0116 EA 36" x 64" Horizontally Mounted Backdraft Damper	365.95	80.47
23 33 13 23-0117 EA 36" x 68" Horizontally Mounted Backdraft Damper	373.71	80.47
23 33 13 23-0118 EA 36" x 72" Horizontally Mounted Backdraft Damper	381.48	80.47
23 33 13 23-0119 EA 40" x 6" Horizontally Mounted Backdraft Damper	117.32	23.03
23 33 13 23-0120 EA 40" x 8" Horizontally Mounted Backdraft Damper	152.72	28.79
23 33 13 23-0121 EA 40" x 10" Horizontally Mounted Backdraft Damper	142.43	30.63
23 33 13 23-0122 EA 40" x 12" Horizontally Mounted Backdraft Damper	163.99	34.53
23 33 13 23-0123 EA 40" x 14" Horizontally Mounted Backdraft Damper	185.56	38.34
23 33 13 23-0124 EA 40" x 16" Horizontally Mounted Backdraft Damper	184.14	42.14
23 33 13 23-0125 EA 40" x 18" Horizontally Mounted Backdraft Damper	202.84	46.05
23 33 13 23-0126 EA 40" x 20" Horizontally Mounted Backdraft Damper	221.53	49.85
23 33 13 23-0127 EA 40" x 24" Horizontally Mounted Backdraft Damper	230.19	53.66
23 33 13 23-0128 EA 40" x 28" Horizontally Mounted Backdraft Damper	253.18	57.56
23 33 13 23-0129 EA 40" x 32" Horizontally Mounted Backdraft Damper	276.20	61.36
23 33 13 23-0130 EA 40" x 36" Horizontally Mounted Backdraft Damper	299.21	65.16
23 33 13 23-0131 EA 40" x 40" Horizontally Mounted Backdraft Damper	307.85	68.96
23 33 13 23-0132 EA 40" x 44" Horizontally Mounted Backdraft Damper	329.42	72.88
23 33 13 23-0133 EA 40" x 48" Horizontally Mounted Backdraft Damper	339.49	72.88
23 33 13 23-0134 EA 40" x 50" Horizontally Mounted Backdraft Damper	338.06	76.68
23 33 13 23-0135 EA 44" x 6" Horizontally Mounted Backdraft Damper	129.60	24.87
23 33 13 23-0136 EA 44" x 8" Horizontally Mounted Backdraft Damper	136.39	30.63
23 33 13 23-0137 EA 44" x 10" Horizontally Mounted Backdraft Damper	158.96	34.53
23 33 13 23-0138 EA 44" x 12" Horizontally Mounted Backdraft Damper	181.54	38.34
23 33 13 23-0139 EA 44" x 14" Horizontally Mounted Backdraft Damper	181.98	42.14
23 33 13 23-0140 EA 44" x 16" Horizontally Mounted Backdraft Damper	201.40	46.05
23 33 13 23-0141 EA 44" x 18" Horizontally Mounted Backdraft Damper	209.31	46.05
23 33 13 23-0142 EA 44" x 20" Horizontally Mounted Backdraft Damper	228.72	49.85
23 33 13 23-0143 EA 44" x 24" Horizontally Mounted Backdraft Damper	248.58	57.56
23 33 13 23-0144 EA 44" x 28" Horizontally Mounted Backdraft Damper	272.75	61.36
23 33 13 23-0145 EA 44" x 32" Horizontally Mounted Backdraft Damper	296.91	65.16
23 33 13 23-0146 EA 44" x 36" Horizontally Mounted Backdraft Damper	306.84	68.96
23 33 13 23-0147 EA 44" x 40" Horizontally Mounted Backdraft Damper	329.42	72.88
23 33 13 23-0148 EA 44" x 44" Horizontally Mounted Backdraft Damper	340.49	72.88
23 33 13 23-0149 EA 44" x 48" Horizontally Mounted Backdraft Damper	344.10	76.68
23 33 13 23-0150 EA 44" x 50" Horizontally Mounted Backdraft Damper	348.84	76.68
23 33 13 23-0151 EA 48" x 6" Horizontally Mounted Backdraft Damper	140.32	26.83
23 33 13 23-0152 EA 48" x 8" Horizontally Mounted Backdraft Damper	140.41	30.63

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0153	EA		48" x 10" Horizontally Mounted Backdraft Damper	163.99	34.53
23 33 13 23-0154	EA		48" x 12" Horizontally Mounted Backdraft Damper	166.87	38.34
23 33 13 23-0155	EA		48" x 14" Horizontally Mounted Backdraft Damper	187.00	42.14
23 33 13 23-0156	EA		48" x 16" Horizontally Mounted Backdraft Damper	207.16	46.05
23 33 13 23-0157	EA		48" x 18" Horizontally Mounted Backdraft Damper	227.29	49.85
23 33 13 23-0158	EA		48" x 20" Horizontally Mounted Backdraft Damper	230.19	53.66
23 33 13 23-0159	EA		48" x 24" Horizontally Mounted Backdraft Damper	255.48	57.56
23 33 13 23-0160	EA		48" x 28" Horizontally Mounted Backdraft Damper	292.31	65.16
23 33 13 23-0161	EA		48" x 32" Horizontally Mounted Backdraft Damper	303.83	68.96
23 33 13 23-0162	EA		48" x 36" Horizontally Mounted Backdraft Damper	327.41	72.88
23 33 13 23-0163	EA		48" x 40" Horizontally Mounted Backdraft Damper	339.49	72.88
23 33 13 23-0164	EA		48" x 44" Horizontally Mounted Backdraft Damper	344.10	76.68
23 33 13 23-0165	EA		48" x 48" Horizontally Mounted Backdraft Damper	365.95	80.47
23 33 13 23-0166	EA		48" x 50" Horizontally Mounted Backdraft Damper	371.13	80.47
23 33 13 23-0167	EA		50" x 6" Horizontally Mounted Backdraft Damper	142.81	26.83
23 33 13 23-0168	EA		50" x 8" Horizontally Mounted Backdraft Damper	153.93	34.53
23 33 13 23-0169	EA		50" x 10" Horizontally Mounted Backdraft Damper	178.03	38.34
23 33 13 23-0170	EA		50" x 12" Horizontally Mounted Backdraft Damper	180.54	42.14
23 33 13 23-0171	EA		50" x 14" Horizontally Mounted Backdraft Damper	201.04	46.05
23 33 13 23-0172	EA		50" x 16" Horizontally Mounted Backdraft Damper	221.53	49.85
23 33 13 23-0173	EA		50" x 18" Horizontally Mounted Backdraft Damper	242.04	53.66
23 33 13 23-0174	EA		50" x 20" Horizontally Mounted Backdraft Damper	244.55	57.56
23 33 13 23-0175	EA		50" x 24" Horizontally Mounted Backdraft Damper	270.45	61.36
23 33 13 23-0176	EA		50" x 28" Horizontally Mounted Backdraft Damper	296.33	65.16
23 33 13 23-0177	EA		50" x 32" Horizontally Mounted Backdraft Damper	307.85	68.96
23 33 13 23-0178	EA		50" x 36" Horizontally Mounted Backdraft Damper	331.94	72.88
23 33 13 23-0179	EA		50" x 40" Horizontally Mounted Backdraft Damper	338.06	76.68
23 33 13 23-0180	EA		50" x 44" Horizontally Mounted Backdraft Damper	348.84	76.68
23 33 13 23-0181	EA		50" x 48" Horizontally Mounted Backdraft Damper	371.13	80.47
23 33 13 23-0182	EA		50" x 50" Horizontally Mounted Backdraft Damper	376.52	80.47
23 33 13 23-0183 Vertically Mounted Backdraft Damper (23 33 13 23)					
Note: Galvanized steel frame, aluminum blades. Excludes motor pack.					
23 33 13 23-0184	EA		6" x 6" Vertically Mounted Backdraft Damper	64.19	12.78
23 33 13 23-0185	EA		8" x 6" Vertically Mounted Backdraft Damper	74.53	13.35
23 33 13 23-0186	EA		10" x 6" Vertically Mounted Backdraft Damper	76.20	13.47
23 33 13 23-0187	EA		8" x 8" Vertically Mounted Backdraft Damper	78.59	13.47
23 33 13 23-0188	EA		12" x 6" Vertically Mounted Backdraft Damper	84.54	13.82
23 33 13 23-0189	EA		10" x 8" Vertically Mounted Backdraft Damper	93.93	15.31
23 33 13 23-0190	EA		14" x 6" Vertically Mounted Backdraft Damper	91.72	13.82
23 33 13 23-0191	EA		12" x 8" Vertically Mounted Backdraft Damper	103.51	15.31
23 33 13 23-0192	EA		16" x 6" Vertically Mounted Backdraft Damper	105.81	16.12
23 33 13 23-0193	EA		10" x 10" Vertically Mounted Backdraft Damper	111.66	17.27
23 33 13 23-0194	EA		18" x 6" Vertically Mounted Backdraft Damper	91.00	14.62
23 33 13 23-0195	EA		14" x 8" Vertically Mounted Backdraft Damper	97.35	16.12
23 33 13 23-0196	EA		12" x 10" Vertically Mounted Backdraft Damper	104.31	17.27
23 33 13 23-0197	EA		20" x 6" Vertically Mounted Backdraft Damper	110.06	19.23
23 33 13 23-0198	EA		16" x 8" Vertically Mounted Backdraft Damper	119.32	21.07
23 33 13 23-0199	EA		14" x 10" Vertically Mounted Backdraft Damper	107.30	15.31
23 33 13 23-0200	EA		12" x 12" Vertically Mounted Backdraft Damper	114.81	17.27
23 33 13 23-0201	EA		18" x 8" Vertically Mounted Backdraft Damper	107.71	19.23
23 33 13 23-0202	EA		24" x 6" Vertically Mounted Backdraft Damper	107.71	19.23
23 33 13 23-0203	EA		16" x 10" Vertically Mounted Backdraft Damper	119.03	21.07
23 33 13 23-0204	EA		20" x 8" Vertically Mounted Backdraft Damper	124.79	23.03
23 33 13 23-0205	EA		14" x 12" Vertically Mounted Backdraft Damper	106.85	16.12
23 33 13 23-0206	EA		28" x 6" Vertically Mounted Backdraft Damper	110.31	17.27
23 33 13 23-0207	EA		18" x 10" Vertically Mounted Backdraft Damper	120.23	19.23
23 33 13 23-0208	EA		16" x 12" Vertically Mounted Backdraft Damper	130.17	21.07
23 33 13 23-0209	EA		24" x 8" Vertically Mounted Backdraft Damper	135.93	23.03
23 33 13 23-0210	EA		32" x 6" Vertically Mounted Backdraft Damper	141.69	24.87
23 33 13 23-0211	EA		14" x 14" Vertically Mounted Backdraft Damper	154.60	28.79
23 33 13 23-0212	EA		20" x 10" Vertically Mounted Backdraft Damper	156.92	30.63
23 33 13 23-0213	EA		18" x 12" Vertically Mounted Backdraft Damper	173.60	34.53
23 33 13 23-0214	EA		36" x 6" Vertically Mounted Backdraft Damper	121.80	17.27
23 33 13 23-0215	EA		16" x 14" Vertically Mounted Backdraft Damper	130.15	19.23
23 33 13 23-0216	EA		28" x 8" Vertically Mounted Backdraft Damper	135.91	21.07
23 33 13 23-0217	EA		20" x 12" Vertically Mounted Backdraft Damper	146.84	23.03
23 33 13 23-0218	EA		24" x 10" Vertically Mounted Backdraft Damper	152.60	24.87
23 33 13 23-0219	EA		40" x 6" Vertically Mounted Backdraft Damper	158.35	26.83
23 33 13 23-0220	EA		18" x 14" Vertically Mounted Backdraft Damper	173.77	30.63
23 33 13 23-0221	EA		16" x 16" Vertically Mounted Backdraft Damper	175.06	30.63
23 33 13 23-0222	EA		32" x 8" Vertically Mounted Backdraft Damper	186.56	34.53
23 33 13 23-0223	EA		44" x 6" Vertically Mounted Backdraft Damper	200.67	38.34
23 33 13 23-0224	EA		20" x 14" Vertically Mounted Backdraft Damper	217.37	42.14
23 33 13 23-0225	EA		28" x 10" Vertically Mounted Backdraft Damper	228.89	46.05
23 33 13 23-0226	EA		18" x 16" Vertically Mounted Backdraft Damper	150.88	19.23
23 33 13 23-0227	EA		24" x 12" Vertically Mounted Backdraft Damper	156.64	21.07
23 33 13 23-0228	EA		36" x 8" Vertically Mounted Backdraft Damper	162.40	23.03
23 33 13 23-0229	EA		48" x 6" Vertically Mounted Backdraft Damper	168.16	24.87
23 33 13 23-0230	EA		50" x 6" Vertically Mounted Backdraft Damper	183.56	28.79

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0231 EA 20" x 16" Vertically Mounted Backdraft Damper	195.80	30.63
23 33 13 23-0232 EA 32" x 10" Vertically Mounted Backdraft Damper	207.30	34.53
23 33 13 23-0233 EA 40" x 8" Vertically Mounted Backdraft Damper	207.30	34.53
23 33 13 23-0234 EA 18" x 18" Vertically Mounted Backdraft Damper	198.08	38.34
23 33 13 23-0235 EA 24" x 14" Vertically Mounted Backdraft Damper	198.07	42.14
23 33 13 23-0236 EA 28" x 12" Vertically Mounted Backdraft Damper	209.59	46.05
23 33 13 23-0237 EA 44" x 8" Vertically Mounted Backdraft Damper	224.50	49.85
23 33 13 23-0238 EA 18" x 20" Vertically Mounted Backdraft Damper	237.72	53.66
23 33 13 23-0239 EA 20" x 18" Vertically Mounted Backdraft Damper	249.22	57.56
23 33 13 23-0240 EA 36" x 10" Vertically Mounted Backdraft Damper	249.22	57.56
23 33 13 23-0241 EA 24" x 16" Vertically Mounted Backdraft Damper	139.20	19.23
23 33 13 23-0242 EA 32" x 12" Vertically Mounted Backdraft Damper	144.96	21.07
23 33 13 23-0243 EA 48" x 8" Vertically Mounted Backdraft Damper	156.48	24.87
23 33 13 23-0244 EA 28" x 14" Vertically Mounted Backdraft Damper	169.69	28.79
23 33 13 23-0245 EA 20" x 20" Vertically Mounted Backdraft Damper	177.15	30.63
23 33 13 23-0246 EA 40" x 10" Vertically Mounted Backdraft Damper	188.65	34.53
23 33 13 23-0247 EA 50" x 8" Vertically Mounted Backdraft Damper	200.17	38.34
23 33 13 23-0248 EA 18" x 24" Vertically Mounted Backdraft Damper	206.97	38.34
23 33 13 23-0249 EA 24" x 18" Vertically Mounted Backdraft Damper	218.48	42.14
23 33 13 23-0250 EA 36" x 12" Vertically Mounted Backdraft Damper	230.00	46.05
23 33 13 23-0251 EA 44" x 10" Vertically Mounted Backdraft Damper	243.21	49.85
23 33 13 23-0252 EA 28" x 16" Vertically Mounted Backdraft Damper	267.94	57.56
23 33 13 23-0253 EA 32" x 14" Vertically Mounted Backdraft Damper	267.94	57.56
23 33 13 23-0254 EA 20" x 24" Vertically Mounted Backdraft Damper	287.11	61.36
23 33 13 23-0255 EA 24" x 20" Vertically Mounted Backdraft Damper	282.95	65.16
23 33 13 23-0256 EA 40" x 12" Vertically Mounted Backdraft Damper	282.95	65.16
23 33 13 23-0257 EA 48" x 10" Vertically Mounted Backdraft Damper	294.47	68.96
23 33 13 23-0258 EA 50" x 10" Vertically Mounted Backdraft Damper	298.11	68.96
23 33 13 23-0259 EA 28" x 18" Vertically Mounted Backdraft Damper	154.91	21.07
23 33 13 23-0260 EA 36" x 14" Vertically Mounted Backdraft Damper	166.43	24.87
23 33 13 23-0261 EA 32" x 16" Vertically Mounted Backdraft Damper	173.64	26.83
23 33 13 23-0262 EA 44" x 12" Vertically Mounted Backdraft Damper	188.06	30.63
23 33 13 23-0263 EA 20" x 28" Vertically Mounted Backdraft Damper	205.38	34.53
23 33 13 23-0264 EA 28" x 20" Vertically Mounted Backdraft Damper	216.90	38.34
23 33 13 23-0265 EA 40" x 14" Vertically Mounted Backdraft Damper	216.90	38.34
23 33 13 23-0266 EA 24" x 24" Vertically Mounted Backdraft Damper	231.31	42.14
23 33 13 23-0267 EA 32" x 18" Vertically Mounted Backdraft Damper	242.83	46.05
23 33 13 23-0268 EA 36" x 16" Vertically Mounted Backdraft Damper	254.34	49.85
23 33 13 23-0269 EA 48" x 12" Vertically Mounted Backdraft Damper	277.36	57.56
23 33 13 23-0270 EA 50" x 12" Vertically Mounted Backdraft Damper	281.73	57.56
23 33 13 23-0271 EA 44" x 14" Vertically Mounted Backdraft Damper	296.16	61.36
23 33 13 23-0272 EA 20" x 32" Vertically Mounted Backdraft Damper	312.03	65.16
23 33 13 23-0273 EA 32" x 20" Vertically Mounted Backdraft Damper	323.55	68.96
23 33 13 23-0274 EA 40" x 16" Vertically Mounted Backdraft Damper	323.55	68.96
23 33 13 23-0275 EA 36" x 18" Vertically Mounted Backdraft Damper	336.51	72.88
23 33 13 23-0276 EA 24" x 28" Vertically Mounted Backdraft Damper	341.60	72.88
23 33 13 23-0277 EA 28" x 24" Vertically Mounted Backdraft Damper	342.58	76.68
23 33 13 23-0278 EA 48" x 14" Vertically Mounted Backdraft Damper	342.58	76.68
23 33 13 23-0279 EA 50" x 14" Vertically Mounted Backdraft Damper	358.77	80.47
23 33 13 23-0280 EA 44" x 16" Vertically Mounted Backdraft Damper	180.98	21.07
23 33 13 23-0281 EA 20" x 36" Vertically Mounted Backdraft Damper	200.93	26.83
23 33 13 23-0282 EA 36" x 20" Vertically Mounted Backdraft Damper	212.45	30.63
23 33 13 23-0283 EA 40" x 18" Vertically Mounted Backdraft Damper	223.95	34.53
23 33 13 23-0284 EA 24" x 32" Vertically Mounted Backdraft Damper	243.49	38.34
23 33 13 23-0285 EA 32" x 24" Vertically Mounted Backdraft Damper	243.49	38.34
23 33 13 23-0286 EA 48" x 16" Vertically Mounted Backdraft Damper	255.00	42.14
23 33 13 23-0287 EA 28" x 28" Vertically Mounted Backdraft Damper	269.20	46.05
23 33 13 23-0288 EA 44" x 18" Vertically Mounted Backdraft Damper	282.04	49.85
23 33 13 23-0289 EA 40" x 20" Vertically Mounted Backdraft Damper	306.40	57.56
23 33 13 23-0290 EA 50" x 16" Vertically Mounted Backdraft Damper	306.40	57.56
23 33 13 23-0291 EA 24" x 36" Vertically Mounted Backdraft Damper	328.62	61.36
23 33 13 23-0292 EA 36" x 24" Vertically Mounted Backdraft Damper	340.13	65.16
23 33 13 23-0293 EA 48" x 18" Vertically Mounted Backdraft Damper	351.65	68.96
23 33 13 23-0294 EA 44" x 20" Vertically Mounted Backdraft Damper	365.83	72.88
23 33 13 23-0295 EA 28" x 32" Vertically Mounted Backdraft Damper	368.51	72.88
23 33 13 23-0296 EA 32" x 28" Vertically Mounted Backdraft Damper	380.02	76.68
23 33 13 23-0297 EA 50" x 18" Vertically Mounted Backdraft Damper	380.68	76.68
23 33 13 23-0298 EA 24" x 40" Vertically Mounted Backdraft Damper	402.22	80.47
23 33 13 23-0299 EA 40" x 24" Vertically Mounted Backdraft Damper	402.22	80.47
23 33 13 23-0300 EA 48" x 20" Vertically Mounted Backdraft Damper	402.22	80.47
23 33 13 23-0301 EA 50" x 20" Vertically Mounted Backdraft Damper	236.22	23.03
23 33 13 23-0302 EA 28" x 36" Vertically Mounted Backdraft Damper	254.82	28.79
23 33 13 23-0303 EA 36" x 28" Vertically Mounted Backdraft Damper	260.58	30.63
23 33 13 23-0304 EA 32" x 32" Vertically Mounted Backdraft Damper	274.76	34.53
23 33 13 23-0305 EA 24" x 44" Vertically Mounted Backdraft Damper	272.55	38.34
23 33 13 23-0306 EA 44" x 24" Vertically Mounted Backdraft Damper	284.06	42.14
23 33 13 23-0307 EA 28" x 40" Vertically Mounted Backdraft Damper	305.11	46.05
23 33 13 23-0308 EA 40" x 28" Vertically Mounted Backdraft Damper	316.62	49.85
23 33 13 23-0309 EA 24" x 48" Vertically Mounted Backdraft Damper	332.92	53.66
23 33 13 23-0310 EA 32" x 36" Vertically Mounted Backdraft Damper	344.42	57.56
23 33 13 23-0311 EA 36" x 32" Vertically Mounted Backdraft Damper	355.94	61.36

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0312 EA 48" x 24" Vertically Mounted Backdraft Damper	367.45	65.16
23 33 13 23-0313 EA 50" x 24" Vertically Mounted Backdraft Damper	386.12	68.96
23 33 13 23-0314 EA 28" x 44" Vertically Mounted Backdraft Damper	402.39	72.88
23 33 13 23-0315 EA 44" x 28" Vertically Mounted Backdraft Damper	402.39	72.88
23 33 13 23-0316 EA 32" x 40" Vertically Mounted Backdraft Damper	421.07	76.68
23 33 13 23-0317 EA 40" x 32" Vertically Mounted Backdraft Damper	265.65	24.87
23 33 13 23-0318 EA 36" x 36" Vertically Mounted Backdraft Damper	285.30	30.63
23 33 13 23-0319 EA 28" x 48" Vertically Mounted Backdraft Damper	303.95	34.53
23 33 13 23-0320 EA 48" x 28" Vertically Mounted Backdraft Damper	315.47	38.34
23 33 13 23-0321 EA 50" x 28" Vertically Mounted Backdraft Damper	335.33	42.14
23 33 13 23-0322 EA 32" x 44" Vertically Mounted Backdraft Damper	348.04	46.05
23 33 13 23-0323 EA 44" x 32" Vertically Mounted Backdraft Damper	348.04	46.05
23 33 13 23-0324 EA 36" x 40" Vertically Mounted Backdraft Damper	364.92	49.85
23 33 13 23-0325 EA 40" x 36" Vertically Mounted Backdraft Damper	365.88	57.56
23 33 13 23-0326 EA 28" x 52" Vertically Mounted Backdraft Damper	379.54	61.36
23 33 13 23-0327 EA 32" x 48" Vertically Mounted Backdraft Damper	401.78	65.16
23 33 13 23-0328 EA 48" x 32" Vertically Mounted Backdraft Damper	413.30	68.96
23 33 13 23-0329 EA 28" x 56" Vertically Mounted Backdraft Damper	429.11	72.88
23 33 13 23-0330 EA 36" x 44" Vertically Mounted Backdraft Damper	431.26	72.88
23 33 13 23-0331 EA 44" x 36" Vertically Mounted Backdraft Damper	442.77	76.68
23 33 13 23-0332 EA 40" x 40" Vertically Mounted Backdraft Damper	444.91	76.68
23 33 13 23-0333 EA 50" x 32" Vertically Mounted Backdraft Damper	295.24	26.83
23 33 13 23-0334 EA 32" x 52" Vertically Mounted Backdraft Damper	315.35	30.63
23 33 13 23-0335 EA 28" x 60" Vertically Mounted Backdraft Damper	328.99	34.53
23 33 13 23-0336 EA 36" x 48" Vertically Mounted Backdraft Damper	346.96	38.34
23 33 13 23-0337 EA 48" x 36" Vertically Mounted Backdraft Damper	358.47	42.14
23 33 13 23-0338 EA 40" x 44" Vertically Mounted Backdraft Damper	374.28	46.05
23 33 13 23-0339 EA 44" x 40" Vertically Mounted Backdraft Damper	385.79	49.85
23 33 13 23-0340 EA 32" x 56" Vertically Mounted Backdraft Damper	401.60	53.66
23 33 13 23-0341 EA 50" x 36" Vertically Mounted Backdraft Damper	387.34	57.56
23 33 13 23-0342 EA 36" x 52" Vertically Mounted Backdraft Damper	418.96	65.16
23 33 13 23-0343 EA 32" x 60" Vertically Mounted Backdraft Damper	436.20	68.96
23 33 13 23-0344 EA 40" x 48" Vertically Mounted Backdraft Damper	447.71	72.88
23 33 13 23-0345 EA 48" x 40" Vertically Mounted Backdraft Damper	447.71	72.88
23 33 13 23-0346 EA 44" x 44" Vertically Mounted Backdraft Damper	461.13	76.68
23 33 13 23-0347 EA 40" x 50" Vertically Mounted Backdraft Damper	480.28	80.47
23 33 13 23-0348 EA 50" x 40" Vertically Mounted Backdraft Damper	480.28	80.47
23 33 13 23-0349 EA 36" x 56" Vertically Mounted Backdraft Damper	321.00	26.83
23 33 13 23-0350 EA 32" x 64" Vertically Mounted Backdraft Damper	347.84	34.53
23 33 13 23-0351 EA 44" x 48" Vertically Mounted Backdraft Damper	366.99	38.34
23 33 13 23-0352 EA 48" x 44" Vertically Mounted Backdraft Damper	378.50	42.14
23 33 13 23-0353 EA 36" x 60" Vertically Mounted Backdraft Damper	395.75	46.05
23 33 13 23-0354 EA 32" x 68" Vertically Mounted Backdraft Damper	409.17	49.85
23 33 13 23-0355 EA 44" x 50" Vertically Mounted Backdraft Damper	390.75	53.66
23 33 13 23-0356 EA 50" x 44" Vertically Mounted Backdraft Damper	402.25	57.56
23 33 13 23-0357 EA 32" x 72" Vertically Mounted Backdraft Damper	424.62	61.36
23 33 13 23-0358 EA 36" x 64" Vertically Mounted Backdraft Damper	436.13	65.16
23 33 13 23-0359 EA 48" x 48" Vertically Mounted Backdraft Damper	447.65	68.96
23 33 13 23-0360 EA 48" x 50" Vertically Mounted Backdraft Damper	469.17	72.88
23 33 13 23-0361 EA 50" x 48" Vertically Mounted Backdraft Damper	480.68	76.68
23 33 13 23-0362 EA 36" x 68" Vertically Mounted Backdraft Damper	485.69	76.68
23 33 13 23-0363 EA 50" x 50" Vertically Mounted Backdraft Damper	502.63	80.47
23 33 13 23-0364 EA 36" x 72" Vertically Mounted Backdraft Damper	512.23	80.47
23 33 13 23-0365 Backdraft Damper Accessories (23 33 13 23)		
23 33 13 23-0366 EA For Motor Pack For Horizontally Mounted Backdraft Damper	128.60	25.97
23 33 13 23-0367 EA For Motor Pack For Vertically Mounted Backdraft Damper	198.95	25.97
23 33 13 29 Barometric Dampers (23 33 13)		
23 33 13 29-0001 EA 6" x 6" Barometric Damper	125.55	9.21
23 33 13 29-0002 EA 12" x 12" Barometric Damper	179.11	12.66
23 33 13 29-0003 EA 18" x 18" Barometric Damper	249.49	19.57
23 33 13 29-0004 EA 24" x 24" Barometric Damper	341.66	36.83
23 33 13 29-0005 EA 6" Diameter Barometric Damper	75.61	9.21
For Stainless Steel, Add	51.84	
23 33 13 29-0006 EA 7" Diameter Barometric Damper	88.82	10.36
For Stainless Steel, Add	61.59	
23 33 13 29-0007 EA 8" Diameter Barometric Damper	103.13	11.51
For Stainless Steel, Add	71.42	
23 33 13 29-0008 EA 9" Diameter Barometric Damper	120.25	11.51
For Stainless Steel, Add	90.48	
23 33 13 29-0009 EA 10" Diameter Barometric Damper	147.94	13.81
For Stainless Steel, Add	123.27	
23 33 13 29-0010 EA 12" Diameter Barometric Damper	181.50	14.96
For Stainless Steel, Add	158.99	
23 33 13 29-0011 EA 14" Diameter Barometric Damper	220.72	16.12
For Stainless Steel, Add	202.76	
23 33 13 29-0012 EA 15" Diameter Barometric Damper	258.92	17.27
For Stainless Steel, Add	243.71	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 29-0013 EA 16" Diameter Barometric Damper For Stainless Steel, Add	295.63 284.56	19.57
23 33 13 29-0014 EA 18" Diameter Barometric Damper For Stainless Steel, Add	375.33 380.19	20.72
23 33 13 29-0015 EA 20" Diameter Barometric Damper For Stainless Steel, Add	440.14 455.07	23.02
23 33 13 29-0016 EA 24" Diameter Barometric Damper For Stainless Steel, Add	519.56 552.99	23.02
23 33 13 29-0017 EA 30" Diameter Barometric Damper For Stainless Steel, Add	630.90 685.49	26.47
23 33 13 29-0018 EA 36" Diameter Barometric Damper For Stainless Steel, Add	787.00 881.34	27.63
23 33 13 33 Splitter Damper Hardware (23 33 13)		
23 33 13 33-0001 EA Splitter Damper, Hardware	34.34	8.06
23 33 13 43 Blower Check Valve (23 33 13)		
23 33 13 43-0001 Blower Check Valves With Silicone Seals (23 33 13 43)		
23 33 13 43-0002 EA 2-1/2" Blower Check Valves, Silicone Seals	295.69	29.70
23 33 13 43-0003 EA 3" Blower Check Valves, Silicone Seals	329.97	33.85
23 33 13 43-0004 EA 4" Blower Check Valves, Silicone Seals	423.46	44.90
23 33 13 43-0005 EA 5" Blower Check Valves, Silicone Seals	587.83	51.81
23 33 13 43-0006 EA 6" Blower Check Valves, Silicone Seals	657.52	62.17
23 33 13 43-0007 EA 8" Blower Check Valves, Silicone Seals	983.78	78.75
23 33 13 43-0008 Blower Check Valves With Viton Seats (23 33 13 43)		
23 33 13 43-0009 EA 2-1/2" Blower Check Valves, Viton Seats	411.93	29.70
23 33 13 43-0010 EA 3" Blower Check Valves, Viton Seats	468.13	33.85
23 33 13 43-0011 EA 4" Blower Check Valves, Viton Seats	519.65	44.90
23 33 13 43-0012 EA 5" Blower Check Valves, Viton Seats	731.84	51.81
23 33 13 43-0013 EA 6" Blower Check Valves, Viton Seats	816.50	62.17
23 33 13 43-0014 EA 8" Blower Check Valves, Viton Seats	1,265.00	78.75
23 33 19 Duct Sound Trap (23 33)		
23 33 19 00-0001 36" Long Packaged Duct Sound Trap (23 33 19)		
23 33 19 00-0002 EA 12" x 12" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	274.35	47.20
23 33 19 00-0003 EA 12" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	325.97	54.10
23 33 19 00-0004 EA 12" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	407.54	62.16
23 33 19 00-0005 EA 12" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	484.80	70.22
23 33 19 00-0006 EA 24" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	458.23	70.22
23 33 19 00-0007 EA 24" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	557.07	73.67
23 33 19 00-0008 EA 24" x 30" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	609.40	78.28
23 33 19 00-0009 EA 24" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	664.04	82.88
23 33 19 00-0010 EA 24" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	842.59	94.39
23 33 19 00-0011 EA 36" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	562.50	78.28
23 33 19 00-0012 EA 36" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	737.85	94.39
23 33 19 00-0013 EA 36" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,232.30	126.62
23 33 19 00-0014 EA 36" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,350.46	133.53
23 33 19 00-0015 EA 48" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,499.47	143.89
23 33 19 00-0016 EA 48" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,675.29	156.55
23 33 19 00-0017 60" Long Packaged Duct Sound Trap (23 33 19)		
23 33 19 00-0018 EA 12" x 12" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	304.91	103.60
23 33 19 00-0019 EA 12" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	363.51	119.72
23 33 19 00-0020 EA 12" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	455.69	138.14
23 33 19 00-0021 EA 12" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	541.97	155.40
23 33 19 00-0022 EA 24" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	511.77	155.40
23 33 19 00-0023 EA 24" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	625.56	164.61
23 33 19 00-0024 EA 24" x 30" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	681.08	172.67
23 33 19 00-0025 EA 24" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	738.35	181.88
23 33 19 00-0026 EA 24" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	943.79	207.20
23 33 19 00-0027 EA 36" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	627.79	172.67
23 33 19 00-0028 EA 36" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	824.76	207.20
23 33 19 00-0029 EA 36" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,371.33	272.81
23 33 19 00-0030 EA 36" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,522.87	295.83
23 33 19 00-0031 EA 48" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,677.77	314.26
23 33 19 00-0032 EA 48" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,880.90	345.33
23 33 19 00-0033 84" Long Packaged Duct Sound Trap (23 33 19)		
23 33 19 00-0034 EA 6" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	259.72	86.33
23 33 19 00-0035 EA 6" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	427.76	128.92
23 33 19 00-0036 EA 6" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	604.12	188.78
23 33 19 00-0037 EA 12" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	338.66	103.60

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 19 00-0038 EA 12" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	413.25	119.72
23 33 19 00-0039 EA 12" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	537.41	138.14
23 33 19 00-0040 EA 12" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	621.09	148.49
23 33 19 00-0041 EA 12" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	675.84	160.01
23 33 19 00-0042 EA 12" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	824.98	172.67
23 33 19 00-0043 EA 12" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	961.19	188.78
23 33 19 00-0044 EA 24" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	601.23	160.01
23 33 19 00-0045 EA 24" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	801.40	166.91
23 33 19 00-0046 EA 24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	865.84	172.67
23 33 19 00-0047 EA 24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	937.31	181.88
23 33 19 00-0048 EA 24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,145.95	195.69
23 33 19 00-0049 EA 24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,238.68	207.20
23 33 23 Duct Turning Vanes (23 33)		
23 33 23 00-0001 Duct Turning Vane Components (23 33 23)		
23 33 23 00-0002 LF Duct Turning Vane Rail.....	7.46	2.87
For Stainless Steel, Add	1.94	
23 33 23 00-0003 LF Double Thick Factory Fabricated, Duct Turning Vane.....	4.63	1.16
For Stainless Steel, Add	2.91	
23 33 23 00-0004 Duct Turning Vane Sets (23 33 23)		
Note: Measured from inside corner to outside corner of ductwork.		
23 33 23 00-0005 LF 12" High Duct Turning Vanes, Sets.....	15.68	4.32
For Stainless Steel, Add	13.36	
23 33 23 00-0006 LF 14" High Duct Turning Vanes, Sets.....	18.76	4.60
For Stainless Steel, Add	16.90	
23 33 23 00-0007 LF 16" High Duct Turning Vanes, Sets.....	24.29	4.83
For Stainless Steel, Add	23.66	
23 33 23 00-0008 LF 18" High Duct Turning Vanes, Sets.....	29.87	5.18
For Stainless Steel, Add	30.42	
23 33 23 00-0009 LF 20" High Duct Turning Vanes, Sets.....	32.90	5.53
For Stainless Steel, Add	33.80	
23 33 23 00-0010 LF 22" High Duct Turning Vanes, Sets.....	40.27	5.18
For Stainless Steel, Add	43.95	
23 33 23 00-0011 LF 24" High Duct Turning Vanes, Sets.....	49.29	6.10
For Stainless Steel, Add	54.09	
23 33 23 00-0012 LF 26" High Duct Turning Vanes, Sets.....	52.71	6.38
For Stainless Steel, Add	58.16	
23 33 23 00-0013 LF 30" High Duct Turning Vanes, Sets.....	58.39	6.63
For Stainless Steel, Add	65.13	
23 33 33 Duct-Mounting Access Doors (23 33)		
23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication (23 33 33)		
23 33 33 00-0002 EA 6" x 6" Duct Access Doors Insulated Factory Fabrication.....	81.89	16.12
For Stainless Steel, Add	34.28	
23 33 33 00-0003 EA 10" x 10" Duct Access Doors Insulated Factory Fabrication.....	85.49	16.12
For Stainless Steel, Add	41.48	
23 33 33 00-0004 EA 12" x 12" Duct Access Doors Insulated Factory Fabrication.....	87.25	16.12
For Stainless Steel, Add	45.00	
23 33 33 00-0005 EA 12" x 18" Duct Access Doors Insulated Factory Fabrication.....	111.42	19.57
For Stainless Steel, Add	63.44	
23 33 33 00-0006 EA 16" x 12" Duct Access Doors Insulated Factory Fabrication.....	112.14	19.57
For Stainless Steel, Add	64.88	
23 33 33 00-0007 EA 18" x 18" Duct Access Doors Insulated Factory Fabrication.....	140.93	26.47
For Stainless Steel, Add	74.66	
23 33 33 00-0008 EA 24" x 18" Duct Access Doors Insulated Factory Fabrication.....	169.71	32.23
For Stainless Steel, Add	80.40	
23 33 33 00-0009 EA 24" x 24" Duct Access Doors Insulated Factory Fabrication.....	222.03	43.74
For Stainless Steel, Add	98.72	
23 33 43 Flexible Duct Connectors (23 33)		
23 33 43 00-0001 LF Flex Duct Connector, Fabric/Sheet Metal.....	13.32	3.46
23 33 43 00-0002 LF Flex Duct Connector, Rubber Vinyl.....	13.07	3.11
23 33 46 Flexible Ducts (23 33)		
23 33 46 00-0001 Flexible Duct, R4.2 Insulated With Metallized Outer Jacket (23 33 46)		
Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.		
23 33 46 00-0002 LF 4" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	6.21	1.16
23 33 46 00-0003 LF 5" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	6.98	2.30
23 33 46 00-0004 LF 6" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	8.15	2.30
23 33 46 00-0005 LF 7" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	9.54	2.30
23 33 46 00-0006 LF 8" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	11.62	3.46
23 33 46 00-0007 LF 10" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	14.80	3.46
23 33 46 00-0008 LF 12" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	20.33	4.60

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 46 00-0009	LF	14" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	25.19	4.60
23 33 46 00-0010	LF	16" Diameter Flexible Duct, R4.2 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	33.14	5.76
23 33 46 00-0011		Collars, Sheet Metal Spin-In Type With Damper (23 33 46)		
23 33 46 00-0012	EA	Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	37.48	6.90
		<i>For Stainless Steel, Add</i>	15.05	
23 33 46 00-0013	EA	5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	41.33	8.06
		<i>For Stainless Steel, Add</i>	15.25	
23 33 46 00-0014	EA	6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	47.47	8.06
		<i>For Stainless Steel, Add</i>	16.82	
23 33 46 00-0015	EA	7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	54.79	10.36
		<i>For Stainless Steel, Add</i>	17.36	
23 33 46 00-0016	EA	8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	66.88	12.66
		<i>For Stainless Steel, Add</i>	19.60	
23 33 46 00-0017	EA	10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	77.79	14.96
		<i>For Stainless Steel, Add</i>	24.17	
23 33 46 00-0018	EA	12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	89.09	17.27
		<i>For Stainless Steel, Add</i>	26.04	
23 33 46 00-0019	EA	14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	104.51	19.57
		<i>For Stainless Steel, Add</i>	32.60	
23 33 46 00-0020	EA	16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	113.77	21.87
		<i>For Stainless Steel, Add</i>	35.67	
23 33 53		Duct Liners (23 33)		
23 33 53 00-0001		Fiberglass Duct Liner Board, Rigid, Acoustical Insulation (23 33 53)		
23 33 53 00-0002	SF	1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	11.55	3.26
23 33 53 00-0003	SF	3/4" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	12.63	3.26
23 33 53 00-0004	SF	1" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	13.98	4.35
23 33 53 00-0005	SF	1-1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	17.11	4.35
23 33 53 00-0006	SF	2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	20.65	4.89
23 33 53 00-0007	SF	1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board.....	10.76	3.46
23 33 53 00-0008	SF	3/4" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board.....	11.78	3.46
23 33 53 00-0009	SF	1" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	13.09	4.60
23 33 53 00-0010	SF	1-1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	15.91	4.60
23 33 53 00-0011	SF	2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	19.27	5.18
23 33 53 00-0012		Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation (23 33 53)		
23 33 53 00-0013	SF	1/2", R2, 2 LB/CF, T200, Fiberglass Duct Liner Blanket.....	1.97	2.76
23 33 53 00-0014	SF	1", R3.8, 1.5 LB/CF, T150, Fiberglass Duct Liner Blanket	2.19	3.11
23 33 53 00-0015	SF	1", R4.1, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	2.78	3.11
23 33 53 00-0016	SF	1", R4.3, 3 LB/CF, T300, Fiberglass Duct Liner Blanket	3.54	3.11
23 33 53 00-0017	SF	1-1/2", T150, 1.5 LB/CF, Fiberglass Duct Liner Blanket.....	2.99	3.46
23 33 53 00-0018	SF	2", R7.7, 1.5 LB/CF, T150 Fiberglass Duct Liner Blanket.....	3.17	3.80
23 33 53 00-0019	SF	2", R8, 2 LB/CF, T200 Fiberglass Duct Liner Blanket	4.81	3.80
23 33 56		Duct Air Extractors (23 33)		
23 33 56 00-0001	EA	12" x 4" Duct Air Extractor.....	60.23	18.99
		<i>For Stainless Steel, Add</i>	28.91	
23 33 56 00-0002	EA	8" x 6" Duct Air Extractor	63.68	20.72
		<i>For Stainless Steel, Add</i>	28.91	
23 33 56 00-0003	EA	12" x 6" Duct Air Extractor.....	74.51	21.87
		<i>For Stainless Steel, Add</i>	40.00	
23 33 56 00-0004	EA	16" x 6" Duct Air Extractor.....	85.09	23.02
		<i>For Stainless Steel, Add</i>	50.75	
23 33 56 00-0005	EA	24" x 6" Duct Air Extractor.....	115.10	25.33
		<i>For Stainless Steel, Add</i>	83.79	
23 33 56 00-0006	EA	12" x 8" Duct Air Extractor.....	80.54	23.02
		<i>For Stainless Steel, Add</i>	44.85	
23 33 56 00-0007	EA	20" x 8" Duct Air Extractor.....	107.49	28.77
		<i>For Stainless Steel, Add</i>	64.91	
23 33 56 00-0008	EA	18" x 10" Duct Air Extractor.....	114.64	32.80
		<i>For Stainless Steel, Add</i>	63.73	
23 33 56 00-0009	EA	24" x 10" Duct Air Extractor.....	140.67	38.55
		<i>For Stainless Steel, Add</i>	82.62	
23 33 56 00-0010	EA	24" x 12" Duct Air Extractor.....	160.18	46.05
		<i>For Stainless Steel, Add</i>	88.52	
23 33 56 00-0011	EA	30" x 12" Duct Air Extractor.....	200.44	57.56
		<i>For Stainless Steel, Add</i>	110.93	
23 33 59		Duct Pressure Relief Doors (23 33)		
23 33 59 00-0001		Duct Pressure Relief Doors (23 33 59)		
23 33 59 00-0002	EA	18" x 18" Duct Pressure Relief Door (Ruskin PRD18)	687.00	34.53
23 33 59 00-0003	EA	24" x 10" Duct Pressure Relief Door (Ruskin PRD18)	565.18	28.77
23 33 59 00-0004	EA	24" x 12" Duct Pressure Relief Door (Ruskin PRD18)	565.71	31.66

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 HVAC Fans (23 30)		
23 34 13 Axial HVAC Fans (23 34)		
23 34 13 00-0001 Tube-Axial Fans (23 34 13)		
23 34 13 00-0002 Direct Drive Tube-Axial Duct Fans (23 34 13 00-0001)		
23 34 13 00-0003 EA 12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure.....	1,399.26	352.91
For 1/4" Static Pressure, Add	55.42	
For 3/8" Static Pressure, Add	110.84	
For 1/2" Static Pressure, Add	152.40	
23 34 13 00-0004 EA 12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure.....	1,448.74	353.98
For 1/4" Static Pressure, Add	59.38	
For 3/8" Static Pressure, Add	118.75	
For 1/2" Static Pressure, Add	163.29	
23 34 13 00-0005 EA 16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure.....	1,547.70	352.91
For 1/4" Static Pressure, Add	67.29	
For 3/8" Static Pressure, Add	134.59	
For 1/2" Static Pressure, Add	185.06	
23 34 13 00-0006 EA 20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure.....	1,646.66	353.98
For 1/4" Static Pressure, Add	75.21	
For 3/8" Static Pressure, Add	150.42	
For 1/2" Static Pressure, Add	206.83	
23 34 13 00-0007 EA 22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure.....	1,936.41	423.92
For 1/4" Static Pressure, Add	87.09	
For 3/8" Static Pressure, Add	174.17	
For 1/2" Static Pressure, Add	239.49	
23 34 13 00-0008 EA 24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure.....	2,208.07	461.01
For 1/4" Static Pressure, Add	102.92	
For 3/8" Static Pressure, Add	205.84	
For 1/2" Static Pressure, Add	283.03	
23 34 13 00-0009 EA 24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure.....	2,345.32	504.47
For 1/4" Static Pressure, Add	106.88	
For 3/8" Static Pressure, Add	213.76	
For 1/2" Static Pressure, Add	293.92	
23 34 13 00-0010 EA 30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure.....	2,643.18	529.90
For 1/4" Static Pressure, Add	126.67	
For 3/8" Static Pressure, Add	253.34	
For 1/2" Static Pressure, Add	348.34	
23 34 13 00-0011 EA 30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure.....	3,205.02	662.38
For 1/4" Static Pressure, Add	150.42	
For 3/8" Static Pressure, Add	300.84	
For 1/2" Static Pressure, Add	413.66	
23 34 13 00-0012 EA 36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure.....	3,590.22	706.89
For 1/4" Static Pressure, Add	174.17	
For 3/8" Static Pressure, Add	348.34	
For 1/2" Static Pressure, Add	478.97	
23 34 13 00-0013 EA 36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure.....	4,203.45	814.99
For 1/4" Static Pressure, Add	205.84	
For 3/8" Static Pressure, Add	411.68	
For 1/2" Static Pressure, Add	566.06	
23 34 13 00-0014 Belt Drive Tube-Axial Duct Fans (23 34 13 00-0001)		
23 34 13 00-0015 EA 15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure.....	1,331.81	342.32
For 1/4" Static Pressure, Add	51.85	
For 3/8" Static Pressure, Add	103.69	
For 1/2" Static Pressure, Add	142.58	
23 34 13 00-0016 EA 15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure.....	1,405.77	353.98
For 1/4" Static Pressure, Add	55.94	
For 3/8" Static Pressure, Add	111.88	
For 1/2" Static Pressure, Add	153.83	
23 34 13 00-0017 EA 18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure.....	1,452.88	365.63
For 1/4" Static Pressure, Add	57.76	
For 3/8" Static Pressure, Add	115.52	
For 1/2" Static Pressure, Add	158.84	
23 34 13 00-0018 EA 18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure.....	1,532.03	378.35
For 1/4" Static Pressure, Add	62.00	
For 3/8" Static Pressure, Add	124.00	
For 1/2" Static Pressure, Add	170.51	
23 34 13 00-0019 EA 18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure.....	1,704.09	393.18
For 1/4" Static Pressure, Add	73.52	
For 3/8" Static Pressure, Add	147.05	
For 1/2" Static Pressure, Add	202.19	
23 34 13 00-0020 EA 24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure.....	1,793.02	408.02
For 1/4" Static Pressure, Add	78.22	
For 3/8" Static Pressure, Add	156.45	
For 1/2" Static Pressure, Add	215.11	
23 34 13 00-0021 EA 24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure.....	1,984.81	423.92
For 1/4" Static Pressure, Add	90.96	
For 3/8" Static Pressure, Add	181.92	
For 1/2" Static Pressure, Add	250.13	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0022 EA 24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure.....	2,201.14	423.92
For 1/4" Static Pressure, Add	108.37	
For 3/8" Static Pressure, Add	216.75	
For 1/2" Static Pressure, Add	298.03	
23 34 13 00-0023 EA 30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure.....	2,530.68	461.01
For 1/4" Static Pressure, Add	128.86	
For 3/8" Static Pressure, Add	257.71	
For 1/2" Static Pressure, Add	354.36	
23 34 13 00-0024 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure.....	3,008.19	558.51
For 1/4" Static Pressure, Add	151.60	
For 3/8" Static Pressure, Add	303.19	
For 1/2" Static Pressure, Add	416.89	
23 34 13 00-0025 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure.....	3,375.70	558.51
For 1/4" Static Pressure, Add	180.62	
For 3/8" Static Pressure, Add	361.24	
For 1/2" Static Pressure, Add	496.71	
23 34 13 00-0026 EA 36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure.....	3,698.52	589.25
For 1/4" Static Pressure, Add	201.68	
For 3/8" Static Pressure, Add	403.36	
For 1/2" Static Pressure, Add	554.61	
23 34 13 00-0027 EA 36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	4,025.66	623.16
For 1/4" Static Pressure, Add	222.54	
For 3/8" Static Pressure, Add	445.08	
For 1/2" Static Pressure, Add	611.99	
23 34 13 00-0028 EA 36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	4,657.39	814.99
For 1/4" Static Pressure, Add	242.55	
For 3/8" Static Pressure, Add	485.11	
For 1/2" Static Pressure, Add	667.02	
23 34 13 00-0029 EA 36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure.....	5,237.91	816.04
For 1/4" Static Pressure, Add	289.00	
For 3/8" Static Pressure, Add	577.99	
For 1/2" Static Pressure, Add	794.74	
23 34 13 00-0030 EA 42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure.....	5,944.93	963.15
For 1/4" Static Pressure, Add	322.00	
For 3/8" Static Pressure, Add	644.00	
For 1/2" Static Pressure, Add	885.50	

23 34 16 Centrifugal HVAC Fans (23 34)**23 34 16 00-0001 Centrifugal Fans (23 34 16)**

Note: All belt fans to be supplied with belt guard.

23 34 16 00-0002 Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001)

Note: V-belt driven.

23 34 16 00-0003 Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)

Note: Under 30" diameter wheel.

23 34 16 00-0004 12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0005 EA 1/6 HP Centrifugal Fan, 12-1/4" Wheel, 450 - 1,750 CFM At 1/8" Static Pressure	1,256.13	232.84
23 34 16 00-0006 EA 1/4 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,811.51	241.64
23 34 16 00-0007 EA 1/3 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,863.38	192.56
23 34 16 00-0008 EA 1/2 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,946.15	263.90
23 34 16 00-0009 EA 3/4 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,992.85	279.79
23 34 16 00-0010 EA 1 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	2,056.33	291.45
23 34 16 00-0011 EA 1-1/2 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	2,119.44	310.52

23 34 16 00-0012 13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0013 EA 1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,091.10	254.36
23 34 16 00-0014 EA 1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,128.39	263.90
23 34 16 00-0015 EA 1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,197.86	279.79
23 34 16 00-0016 EA 3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,238.27	291.45
23 34 16 00-0017 EA 1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,313.20	310.52
23 34 16 00-0018 EA 1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,388.17	325.36

23 34 16 00-0019 15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0020 EA 1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,105.65	263.90
23 34 16 00-0021 EA 1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,152.38	279.79
23 34 16 00-0022 EA 1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,215.53	291.45
23 34 16 00-0023 EA 3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,267.70	310.52
23 34 16 00-0024 EA 1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,335.11	325.36
23 34 16 00-0025 EA 1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,428.92	349.74
23 34 16 00-0026 EA 2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure.....	2,502.29	367.75

23 34 16 00-0027 16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0028 EA 1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,413.92	279.79
23 34 16 00-0029 EA 1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,500.69	291.45
23 34 16 00-0030 EA 1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,596.08	310.52
23 34 16 00-0031 EA 3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,645.83	325.36

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0032 EA 1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,710.63	349.74
23 34 16 00-0033 EA 1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,766.35	367.75
23 34 16 00-0034 EA 2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	3,073.20	399.55
23 34 16 00-0035 18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0036 EA 1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,494.13	291.45
23 34 16 00-0037 EA 1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,551.98	310.52
23 34 16 00-0038 EA 1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,630.77	325.36
23 34 16 00-0039 EA 3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,690.48	349.74
23 34 16 00-0040 EA 1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,775.21	367.75
23 34 16 00-0041 EA 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,902.63	399.55
23 34 16 00-0042 EA 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,984.82	423.92
23 34 16 00-0043 EA 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	3,106.55	466.31
23 34 16 00-0044 20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0045 EA 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,517.88	310.52
23 34 16 00-0046 EA 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,596.63	325.36
23 34 16 00-0047 EA 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,690.48	349.74
23 34 16 00-0048 EA 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,775.21	367.75
23 34 16 00-0049 EA 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,936.74	399.55
23 34 16 00-0050 EA 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,165.12	423.92
23 34 16 00-0051 EA 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,321.96	466.31
23 34 16 00-0052 EA 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	3,486.15	499.17
23 34 16 00-0053 22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0054 EA 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,032.55	325.36
23 34 16 00-0055 EA 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,086.92	349.74
23 34 16 00-0056 EA 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,163.73	367.75
23 34 16 00-0057 EA 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,258.94	399.55
23 34 16 00-0058 EA 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,387.53	423.92
23 34 16 00-0059 EA 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,426.19	466.31
23 34 16 00-0060 EA 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,508.89	499.17
23 34 16 00-0061 EA 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,656.58	559.58
23 34 16 00-0062 24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0063 EA 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,653.25	349.74
23 34 16 00-0064 EA 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,766.86	399.55
23 34 16 00-0065 EA 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,883.16	423.92
23 34 16 00-0066 EA 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,004.24	466.31
23 34 16 00-0067 EA 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,111.57	499.17
23 34 16 00-0068 EA 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,202.41	559.58
23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,333.00	608.32
23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,641.80	699.47
23 34 16 00-0071 27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,050.71	367.75
23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,167.45	423.92
23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,288.53	466.31
23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,395.87	499.17
23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,543.55	559.58
23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,673.80	608.32
23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,006.76	699.47
23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	5,043.84	776.84
23 34 16 00-0080 Large Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)		
Note: Over 30" diameter wheel.		
23 34 16 00-0081 30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,681.54	466.31
23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,784.40	499.17
23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,942.25	559.58
23 34 16 00-0085 EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,083.86	608.32
23 34 16 00-0086 EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,290.67	699.47
23 34 16 00-0087 EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,476.64	776.84
23 34 16 00-0088 EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,780.40	932.63
23 34 16 00-0089 EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	7,061.02	1,075.70
23 34 16 00-0090 33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0091 EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,670.16	499.17
23 34 16 00-0092 EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,874.71	559.58
23 34 16 00-0093 EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	7,062.16	608.32
23 34 16 00-0094 EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	7,314.11	699.47

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0095 EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	7,545.57	776.84
23 34 16 00-0096 EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	7,894.80	932.63
23 34 16 00-0097 EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	8,288.72	1,075.70
23 34 16 00-0098 EA 7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	8,828.76	1,398.94
23 34 16 00-0099 36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure (23 34 16 00-0099)		
23 34 16 00-0100 EA 1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,507.27	559.58
23 34 16 00-0101 EA 3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,581.00	608.32
23 34 16 00-0102 EA 1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,719.23	699.47
23 34 16 00-0103 EA 1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,859.90	776.84
23 34 16 00-0104 EA 2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,653.70	932.63
23 34 16 00-0105 EA 3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,967.68	1,075.70
23 34 16 00-0106 EA 5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	7,556.69	1,398.94
23 34 16 00-0107 EA 7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	8,186.46	1,748.67
23 34 16 00-0108 Kitchen System Fans (23 34 16 00-0001)		
23 34 16 00-0109 Upblast Kitchen Exhaust Fans (23 34 16 00-0108)		
23 34 16 00-0110 Direct Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)		
Note: Greenheck CUE.		
23 34 16 00-0111 EA Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan.....	840.12	137.77
Note: 115V. For roof or wall installations. Includes disconnect switch.		
For Bird Screen, Add	31.99	
For Backdraft Damper, Add	85.39	
For Damper Motor, Add	129.64	
23 34 16 00-0112 EA 14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan	967.22	137.77
Note: 115V. For roof or wall installations. Includes disconnect switch.		
For Bird Screen, Add	31.99	
For Backdraft Damper, Add	85.39	
For Damper Motor, Add	129.64	
23 34 16 00-0113 Belt Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)		
Note: Greenheck CUBE.		
23 34 16 00-0114 EA 10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,368.82	137.77
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	31.99	
For Wall Mounted Fan, Add	54.75	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	92.93	
For Backdraft Damper, Add	85.39	
For Damper Motor, Add	129.64	
23 34 16 00-0115 EA 12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,423.98	137.77
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	31.99	
For Wall Mounted Fan, Add	56.96	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	97.62	
For Backdraft Damper, Add	85.39	
For Damper Motor, Add	129.64	
23 34 16 00-0116 EA 14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,253.45	158.97
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	36.41	
For Wall Mounted Fan, Add	50.14	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	79.52	
For Backdraft Damper, Add	96.69	
For Damper Motor, Add	129.64	
23 34 16 00-0117 EA 14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,332.88	158.97
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	36.41	
For Wall Mounted Fan, Add	53.32	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	86.27	
For Backdraft Damper, Add	96.69	
For Damper Motor, Add	129.64	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0118	EA		16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	1,681.53	185.46
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	36.41	
			For Wall Mounted Fan, Add	67.26	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	111.40	
			For Backdraft Damper, Add	96.69	
			For Damper Motor, Add	129.64	
23 34 16 00-0119	EA		16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	1,766.48	185.46
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	36.41	
			For Wall Mounted Fan, Add	70.66	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	118.62	
			For Backdraft Damper, Add	96.69	
			For Damper Motor, Add	129.64	
23 34 16 00-0120	EA		18" Diameter Wheel, 1/2 HP , 3,243 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	1,922.05	198.71
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	60.68	
			For Wall Mounted Fan, Add	76.88	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	129.59	
			For Backdraft Damper, Add	116.99	
			For Damper Motor, Add	129.64	
23 34 16 00-0121	EA		18" Diameter Wheel, 1 HP , 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,054.44	198.71
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	60.68	
			For Wall Mounted Fan, Add	82.18	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	140.85	
			For Backdraft Damper, Add	116.99	
			For Damper Motor, Add	129.64	
23 34 16 00-0122	EA		20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,096.37	211.96
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	60.68	
			For Wall Mounted Fan, Add	83.85	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	142.16	
			For Backdraft Damper, Add	116.99	
			For Damper Motor, Add	129.64	
23 34 16 00-0123	EA		20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,282.81	211.96
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	60.68	
			For Wall Mounted Fan, Add	91.31	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	158.01	
			For Backdraft Damper, Add	116.99	
			For Damper Motor, Add	129.64	
23 34 16 00-0124	EA		24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,624.84	238.45
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	71.71	
			For Wall Mounted Fan, Add	104.99	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	182.57	
			For Backdraft Damper, Add	127.29	
			For Damper Motor, Add	129.64	
23 34 16 00-0125	EA		24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,795.84	238.45
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	71.71	
			For Wall Mounted Fan, Add	111.83	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	197.11	
			For Backdraft Damper, Add	127.29	
			For Damper Motor, Add	129.64	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0126 EA 30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....3,300.04		264.95
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	77.22	
For Wall Mounted Fan, Add	132.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	235.46	
For Backdraft Damper, Add	140.58	
For Damper Motor, Add	129.64	
23 34 16 00-0127 EA 30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....3,356.30		264.95
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	77.22	
For Wall Mounted Fan, Add	134.25	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	240.24	
For Backdraft Damper, Add	140.58	
For Damper Motor, Add	129.64	
23 34 16 00-0128 EA 30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....3,642.03		264.95
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	77.22	
For Wall Mounted Fan, Add	145.68	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	264.53	
For Backdraft Damper, Add	140.58	
For Damper Motor, Add	129.64	
23 34 16 00-0129 EA 30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....3,779.93		264.95
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	77.22	
For Wall Mounted Fan, Add	151.20	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	276.25	
For Backdraft Damper, Add	140.58	
For Damper Motor, Add	129.64	
23 34 16 00-0130 EA 36" Diameter Wheel, 3 HP, 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....4,161.84		291.45
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	88.26	
For Wall Mounted Fan, Add	166.47	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	304.21	
For Damper Motor, Add	129.64	
For Backdraft Damper, Add	162.03	
23 34 16 00-0131 EA 36" Diameter Wheel, 5 HP, 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....4,320.42		291.45
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	88.26	
For Wall Mounted Fan, Add	172.82	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	317.69	
For Damper Motor, Add	129.64	
For Backdraft Damper, Add	162.03	
23 34 16 00-0132 EA 42" Diameter Wheel, 3 HP, 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....4,377.84		317.94
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	88.26	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	318.07	
For Damper Motor, Add	129.64	
For Backdraft Damper, Add	184.86	
23 34 16 00-0133 EA 42" Diameter Wheel, 7-1/2 HP, 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....4,726.01		317.94
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	88.26	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	347.67	
For Damper Motor, Add	129.64	
For Backdraft Damper, Add	184.86	

23 34 16 00-0134 Untempered Kitchen Make-Up Air Fans (23 34 16 00-0108)
 Note: Roof mounted with downblast discharge, weatherhood and filter.

23 34 16 00-0135 Direct Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)

23 34 16 00-0136 EA 7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan .....893.63		137.77
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	161.57	
23 34 16 00-0137 EA 8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan .....932.77		137.77
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	167.44	
23 34 16 00-0138 EA 9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan .....980.80		137.77
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	174.65	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0139 Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0140 EA 9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	999.43	137.77
For Extended Weatherhood, Add	177.44	
23 34 16 00-0141 EA 10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,148.31	185.46
For Extended Weatherhood, Add	209.34	
23 34 16 00-0142 EA 12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,373.92	211.96
For Extended Weatherhood, Add	248.48	
23 34 16 00-0143 EA 15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,609.90	264.95
For Extended Weatherhood, Add	294.48	
23 34 16 00-0144 EA 18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.	1,945.83	317.94
For Extended Weatherhood, Add	355.46	
23 34 16 00-0145 Replacement Parts (23 34 16 00-0001)		
23 34 16 00-0146 Replace Belts And Accessories (23 34 16 00-0145)		
23 34 16 00-0147 EA Fan Shaft Bearing, Replacement.....	790.08	366.25
23 34 16 00-0148 EA Fan Belt, Replacement	122.48	49.69
23 34 16 00-0149 Corrosive Fume Resistant Plastic (23 34 16 00-0001)		
23 34 16 00-0150 Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)		
23 34 16 00-0151 EA 250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	3,909.16 528.88	191.66
23 34 16 00-0152 EA 895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	4,261.03 570.09	230.23
23 34 16 00-0153 EA 1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	5,063.01 673.12	287.77
23 34 16 00-0154 EA 2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	5,484.27 707.46	383.89
23 34 16 00-0155 EA 3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	6,371.21 783.01	575.56
23 34 16 00-0156 EA 11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	11,093.96 1,318.76	1,151.12
23 34 16 00-0157 EA 18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... For Explosion Proof Motor, Add	16,158.05 1,930.06	1,645.52
23 34 16 00-0158 Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)		
23 34 16 00-0159 EA 1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	3,909.16 528.88	191.66
23 34 16 00-0160 EA 1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	4,032.08 535.75	230.23
23 34 16 00-0161 EA 1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	4,147.20 535.75	287.77
23 34 16 00-0162 EA 2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	4,339.51 535.75	383.89
23 34 16 00-0163 EA 3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	6,004.89 728.07	575.56
23 34 16 00-0164 EA 4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	6,292.66 728.07	719.44
23 34 16 00-0165 EA 4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	6,500.31 728.07	823.27
23 34 16 00-0166 EA 6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	6,672.02 741.80	863.33
23 34 16 00-0167 EA 7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic For Explosion Proof Motor, Add	6,909.66 748.67	959.22
23 34 16 00-0168 In-Line Duct Fans (23 34 16 00-0001)		
23 34 16 00-0169 Direct Drive In-Line Duct Fans (23 34 16 00-0168) Note: Greenheck SQ.		
23 34 16 00-0170 EA Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,085.69	137.77
23 34 16 00-0171 EA 13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,370.90	148.37
23 34 16 00-0172 EA 14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,501.02	158.97

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0173		Belt Drive In-Line Duct Fans (23 34 16 00-0168) Note: Greenheck BSQ.		
23 34 16 00-0174	EA	Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan.....	1,564.04	158.97
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0175	EA	13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan.....	1,799.26	185.46
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0176	EA	13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan.....	2,009.57	185.46
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0177	EA	13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan.....	2,188.36	185.46
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0178	EA	16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan.....	2,150.24	211.96
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0179	EA	16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan.....	2,453.03	211.96
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0180	EA	24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan.....	3,118.69	264.95
		Note: 115/208-230/60/1. Includes disconnect switch.		
		For 3 Phase Motor, Deduct	-50.00	
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0181	EA	24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan.....	3,285.84	264.95
		Note: 230/460/60/3. Includes disconnect switch.		
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0182	EA	24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan.....	3,403.67	264.95
		Note: Belt drive. 230/460/60/3. Includes disconnect switch.		
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0183	EA	30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan.....	3,943.35	317.94
		Note: 230/460/60/3. Includes disconnect switch.		
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0184	EA	30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan.....	4,083.98	317.94
		Note: 230/460/60/3. Includes disconnect switch.		
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0185	EA	30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan.....	4,256.81	317.94
		Note: 230/460/60/3. Includes disconnect switch.		
		For Totally Enclosed Motor, Add	85.00	
23 34 16 00-0186		In-Line Cabinet Fans (23 34 16 00-0001)		
23 34 16 00-0187	EA	950 CFM, 80 Watts, Direct Drive In-Line Cabinet Fan.....	331.81	92.74
23 34 16 00-0188	EA	1,050 CFM, 129 Watts, Direct Drive In-Line Cabinet Fan.....	347.22	92.74
23 34 16 00-0189	EA	1,100 CFM, 173 Watts, Direct Drive In-Line Cabinet Fan.....	368.13	92.74
23 34 16 00-0190	EA	950 CFM, 48.7 Watts, Direct Drive In-Line Cabinet Fan.....	367.03	92.74
23 34 16 00-0191	EA	1,100 CFM, 52.5 Watts, Direct Drive In-Line Cabinet Fan.....	367.03	92.74
23 34 16 00-0192	EA	1,400 CFM, 100 Watts, Direct Drive In-Line Cabinet Fan.....	400.04	92.74
23 34 16 00-0193	EA	900 CFM, 48.2 Watts, Direct Drive In-Line Cabinet Fan.....	470.06	98.03
23 34 16 00-0194	EA	1,000 CFM, 82.7 Watts, Direct Drive In-Line Cabinet Fan.....	411.74	98.03
23 34 16 00-0195	EA	1,050 CFM, 80.7 Watts, Direct Drive In-Line Cabinet Fan.....	433.75	98.03
23 34 16 00-0196	EA	1,350 CFM, 140 Watts, Direct Drive In-Line Cabinet Fan.....	448.05	98.03
23 34 16 00-0197	EA	1,000 CFM, 135 Watts, Direct Drive In-Line Cabinet Fan.....	464.56	98.03
23 34 16 00-0198	EA	1,070 CFM, 217 Watts, Direct Drive In-Line Cabinet Fan.....	464.56	98.03
23 34 16 00-0199	EA	1,100 CFM, 350 Watts, Direct Drive In-Line Cabinet Fan.....	713.95	103.33
23 34 16 00-0200	EA	1,080 CFM, 325 Watts, Direct Drive In-Line Cabinet Fan.....	613.82	103.33
23 34 16 00-0201	EA	1,600 CFM, 405 Watts, Direct Drive In-Line Cabinet Fan.....	613.82	103.33
23 34 16 00-0202	EA	950 CFM, 328 Watts, Direct Drive In-Line Cabinet Fan.....	801.99	103.33
23 34 16 00-0203	EA	1,095 CFM, 455 Watts, Direct Drive In-Line Cabinet Fan.....	801.99	103.33
23 34 16 00-0204	EA	1,450 CFM, 822 Watts, Direct Drive In-Line Cabinet Fan.....	801.99	103.33
23 34 16 00-0205	EA	1,610 CFM, 830 Watts, Direct Drive In-Line Cabinet Fan.....	864.71	103.33
23 34 16 00-0206		Propeller And Ceiling Fans (23 34 16)		
23 34 16 00-0207		Direct Drive, Sidewall Propeller Exhaust Fan (23 34 16 00-0206) Note: Greenheck SE1.		
23 34 16 00-0208	EA	1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	478.37	113.40
		Note: Includes motor side guard.		
		For Backdraft Damper, Add	88.80	
		For Wall Mount Collar, Add	161.09	
23 34 16 00-0209	EA	1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	511.53	126.11
		Note: Includes motor side guard.		
		For Backdraft Damper, Add	97.09	
		For Wall Mount Collar, Add	161.09	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0210 EA 1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....566.66		139.89
Note: Includes motor side guard.		
For Backdraft Damper, Add	107.39	
For Wall Mount Collar, Add	165.45	
23 34 16 00-0211 EA 1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....789.35		154.73
For Backdraft Damper, Add	126.69	
For Wall Mount Collar, Add	168.72	
For Motor Side Guard, Add	134.16	
23 34 16 00-0212 EA 1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....815.18		171.69
For Backdraft Damper, Add	126.69	
For Wall Mount Collar, Add	173.10	
For Motor Side Guard, Add	142.94	
23 34 16 00-0213 EA 1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....914.56		190.76
For Backdraft Damper, Add	150.99	
For Wall Mount Collar, Add	177.46	
For Motor Side Guard, Add	151.72	
23 34 16 00-0214 EA 1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....1,039.28		211.96
For Backdraft Damper, Add	150.99	
For Wall Mount Collar, Add	180.73	
For Motor Side Guard, Add	163.82	
23 34 16 00-0215 Belt Drive Propeller Exhaust Fans (23 34 16 00-0206)		
Note: Wall shutter 1/8" static pressure, with birdscreen.		
23 34 16 00-0216 EA 24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter.....1,706.82		303.10
23 34 16 00-0217 EA 30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter.....1,959.10		352.91
23 34 16 00-0218 EA 36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter.....2,237.74		423.92
23 34 16 00-0219 EA 42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter.....3,075.76		529.90
23 34 16 00-0220 EA 48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter.....3,718.61		706.89
23 34 16 00-0221 EA 54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter.....5,217.07		1,059.80
23 34 16 00-0222 EA 60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter.....6,319.45		1,358.66
23 34 16 00-0223 Propeller Exhaust Fan Accessories (23 34 16 00-0206)		
23 34 16 00-0224 SF Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening).....89.63		
23 34 16 00-0225 SF Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening).....202.85		
23 34 16 00-0226 Reversible Ceiling Fans (23 34 16 00-0206)		
23 34 16 00-0227 4 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0228 EA 42" 4-Blade Ceiling Fan, Three Speed .....399.03		51.43
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	25.86	
23 34 16 00-0229 5 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0230 EA 42" 5-Blade Ceiling Fan, Three Speed .....435.15		127.28
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	25.91	
23 34 16 00-0231 EA 52" 5-Blade Ceiling Fan, Three Speed .....495.54		127.28
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.01	
23 34 16 00-0232 3 Blade Weatherproof Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0233 EA 3-Blade Ceiling Fan, Weatherproof, Three Speed .....420.95		52.46
23 34 16 00-0234 Explosion Proof Industrial Blowers (23 34 16 00-0206)		
23 34 16 00-0235 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....3,023.67		
23 34 16 00-0236 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....3,298.82		
23 34 16 00-0237 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....4,315.74		
23 34 16 00-0238 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....4,505.16		
23 34 16 00-0239 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure .....2,776.43		
23 34 16 00-0240 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure .....2,941.55		
23 34 16 00-0241 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure .....3,951.65		
23 34 16 00-0242 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure .....4,263.21		
23 34 16 00-0243 Exhaust Fans (23 34 16)		
23 34 16 00-0244 Exhaust Fans (23 34 16 00-0243)		
Note: Excludes ducting.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0245	Light Duty Exhaust Fans (23 34 16 00-0244)			
23 34 16 00-0246	Light Duty Exhaust Fans (23 34 16 00-0245)			
23 34 16 00-0247	EA	50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan (Broan® 670).....	109.86	41.56
23 34 16 00-0248	EA	70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan (Broan® 671).....	114.33	41.56
23 34 16 00-0249	EA	180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan (Broan® 505).....	167.95	41.56
23 34 16 00-0250	EA	350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan (Broan® 504).....	203.81	41.56
23 34 16 00-0251	EA	160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan (Broan® 503).....	185.60	41.56
23 34 16 00-0252	EA	270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan (Broan® 502).....	236.52	41.56
23 34 16 00-0253	Light Duty Exhaust Fans With Lights (23 34 16 00-0245)			
23 34 16 00-0254	EA	50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678).....	133.75	41.56
23 34 16 00-0255	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679).....	144.94	41.56
23 34 16 00-0256	EA	100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680).....	243.35	41.56
23 34 16 00-0257	Light Duty Exhaust Fans With Heaters (23 34 16 00-0245)			
23 34 16 00-0258	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162).....	136.18	41.56
23 34 16 00-0259	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658).....	197.54	41.56
23 34 16 00-0260	Light Duty Exhaust Fans With Heaters And Lights (23 34 16 00-0245)			
23 34 16 00-0261	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655).....	208.17	41.56
23 34 16 00-0262	EA	100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL).....	299.50	41.56
23 34 16 00-0263	Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0244)			
23 34 16 00-0264	Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0263)			
		Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0265	EA	50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50).....	153.07	41.56
23 34 16 00-0266	EA	80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80).....	165.90	41.56
23 34 16 00-0267	EA	109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG).....	276.89	41.56
23 34 16 00-0268	EA	157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG).....	282.84	41.56
23 34 16 00-0269	EA	210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG).....	301.34	41.56
23 34 16 00-0270	EA	259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG).....	313.16	41.56
23 34 16 00-0271	EA	308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG).....	317.74	41.56
23 34 16 00-0272	EA	434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400).....	359.03	41.56
23 34 16 00-0273	EA	514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500).....	404.57	41.56
23 34 16 00-0274	EA	701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700).....	430.52	41.56
23 34 16 00-0275	EA	901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900).....	506.30	41.56
23 34 16 00-0276	EA	1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500).....	641.30	41.56
23 34 16 00-0277	Heavy Duty/Continuous Operation Kitchen Exhaust Fans (23 34 16 00-0263)			
		Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0278	EA	308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG).....	286.30	41.56
23 34 16 00-0279	EA	434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....	401.17	41.56
23 34 16 00-0280	EA	514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....	422.44	41.56
23 34 16 00-0281	Heavy Duty/Continuous Operation Exhaust Fans With Lights (23 34 16 00-0263)			
23 34 16 00-0282	EA	50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....	163.57	41.56
23 34 16 00-0283	EA	80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....	175.62	41.56
23 34 16 00-0284	Fire Rated, Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0263)			
23 34 16 00-0285	EA	50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF).....	168.86	41.56
23 34 16 00-0286	EA	80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF).....	176.84	41.56



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Fans			23 34

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0287 EA 110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® 110RDF)	180.68	41.56
23 34 16 00-0288 Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0289 EA 900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900)	679.52	41.56
23 34 16 00-0290 EA 1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050)	679.52	41.56
23 34 16 00-0291 EA 1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410)	679.52	41.56
23 34 16 00-0292 EA 1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550)	742.52	41.56
23 34 16 00-0293 Room-To-Room Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0294 EA 90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512)	130.74	41.56
23 34 16 00-0295 EA 180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511)	195.87	41.56
23 34 16 00-0296 EA 380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510)	219.60	41.56
23 34 16 00-0297 Through-Wall Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0298 EA 250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507)	207.19	41.56
23 34 16 00-0299 EA 470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506)	239.90	41.56
23 34 16 00-0300 EA 180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509)	184.70	41.56
23 34 16 00-0301 EA 270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508)	236.52	41.56
23 34 16 00-0302 EA 360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C)	389.91	41.56
23 34 16 00-0303 Exhaust Fan Accessories (23 34 16 00-0244)		
23 34 16 00-0304 Exhaust Fan Controls (23 34 16 00-0303)		
23 34 16 00-0305 EA Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57)	116.24	25.97
23 34 16 00-0306 EA 60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59)	87.31	25.97
23 34 16 00-0307 EA 60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61)	88.00	25.97
23 34 16 00-0308 Roof And Wall Caps For Exhaust Fans (23 34 16 00-0303)		
23 34 16 00-0309 Wall Caps For Exhaust Fans (23 34 16 00-0308)		
23 34 16 00-0310 EA Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613)	204.49	57.56
23 34 16 00-0311 EA Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643)	206.77	57.56
23 34 16 00-0312 Roof Caps For Exhaust Fans (23 34 16 00-0308)		
Note: Includes flashing and built in bird screen.		
23 34 16 00-0313 EA Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611)	180.99	57.56
23 34 16 00-0314 EA Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612)	240.14	57.56
23 34 16 00-0315 EA CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636)	135.52	57.56
23 34 16 00-0316 EA CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634)	153.26	57.56
23 34 16 00-0317 Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan (23 34 16 00-0244)		
Note: Includes storage and cleaning.		
23 34 16 00-0318 EA Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan	79.49	
23 34 23 HVAC Power Ventilators (23 34)		
23 34 23 00-0001 Power Roof Ventilators (23 34 23)		
23 34 23 00-0002 Direct Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)		
Note: Greenheck G.		
23 34 23 00-0003 EA 1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	547.82	151.56
Note: Three speed motor.		
For 12" Roof Curb, Add	161.14	
For Backdraft Damper, Add	78.09	
For Solid State Speed Control, Add	78.80	
For Damper Motor, Add	129.64	
23 34 23 00-0004 EA 1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	621.88	171.69
Note: Three speed motor.		
For 12" Roof Curb, Add	161.14	
For Backdraft Damper, Add	78.09	
For Solid State Speed Control, Add	78.80	
For Damper Motor, Add	129.64	
23 34 23 00-0005 EA 1/6 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	862.73	200.30
Note: Three speed motor.		
For 12" Roof Curb, Add	164.45	
For Backdraft Damper, Add	85.39	
For Solid State Speed Control, Add	78.80	
For Damper Motor, Add	129.64	
23 34 23 00-0006 EA 1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	920.99	225.74
Note: Three speed motor.		
For 12" Roof Curb, Add	164.45	
For Backdraft Damper, Add	85.39	
For Solid State Speed Control, Add	78.80	
For Damper Motor, Add	129.64	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0007	EA	1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,137.54	249.06
		For Solid State Speed Control, Add	78.80	
		For Damper Motor, Add	129.64	
23 34 23 00-0008	EA	1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,260.11	264.95
		For 12" Roof Curb, Add	169.97	
		For Backdraft Damper, Add	96.69	
		For Solid State Speed Control, Add	112.99	
		For Damper Motor, Add	129.64	
23 34 23 00-0009 Belt Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)				
		Note: Greenheck GB.		
23 34 23 00-0010	EA	1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	1,154.97	225.74
		For 12" Roof Curb, Add	164.45	
		For Backdraft Damper, Add	85.39	
		For Damper Motor, Add	129.64	
23 34 23 00-0011	EA	1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	1,255.78	287.21
		For 12" Roof Curb, Add	169.97	
		For Backdraft Damper, Add	96.69	
		For Damper Motor, Add	129.64	
23 34 23 00-0012	EA	1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	1,678.02	342.32
		For 12" Roof Curb, Add	169.97	
		For Backdraft Damper, Add	96.69	
		For Damper Motor, Add	129.64	
23 34 23 00-0013	EA	3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	2,134.49	423.92
		For 12" Roof Curb, Add	196.44	
		For Backdraft Damper, Add	116.99	
		For Damper Motor, Add	129.64	
23 34 23 00-0014	EA	1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	2,801.38	529.90
		For 12" Roof Curb, Add	208.58	
		For Backdraft Damper, Add	127.29	
		For Damper Motor, Add	129.64	
23 34 23 00-0015	EA	1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	3,664.65	662.38
		For 12" Roof Curb, Add	227.33	
		For Backdraft Damper, Add	140.58	
		For Damper Motor, Add	129.64	
23 34 23 00-0016	EA	2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	3,691.12	662.38
		For 12" Roof Curb, Add	227.33	
		For Backdraft Damper, Add	140.58	
		For Damper Motor, Add	129.64	
23 34 23 00-0017	EA	3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	3,976.85	662.38
		For 12" Roof Curb, Add	227.33	
		For Backdraft Damper, Add	140.58	
		For Damper Motor, Add	129.64	
23 34 23 00-0018	EA	5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster.....	3,994.12	662.38
		For 12" Roof Curb, Add	227.33	
		For Backdraft Damper, Add	140.58	
		For Damper Motor, Add	129.64	
23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast (23 34 23 00-0001)				
		Note: Includes back draft damper and birdscreen and curb.		
23 34 23 00-0020	EA	30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure	5,657.50	814.99
23 34 23 00-0021	EA	36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure	9,105.36	1,059.48
23 34 23 00-0022 Belt Drive Supply Fans (23 34 23 00-0001)				
23 34 23 00-0023	EA	4,500 CFM, 24" x 24" Supply Fan, Roof Mounted	2,296.17	423.18
23 34 23 00-0024	EA	10,000 CFM, 36" x 36" Supply Fan, Roof Mounted	3,078.02	529.79
23 34 23 00-0025 Fan Thermostat (23 34 23 00-0001)				
23 34 23 00-0026	EA	50 To 120 Degree Line Voltage Fan Thermostat.....	94.60	
23 34 23 00-0027 Power Wall Ventilators (23 34 23)				
23 34 23 00-0028 Centrifugal Sidewall Exhausters (23 34 23 00-0027)				
23 34 23 00-0029 Direct Drive, Aluminum, Centrifugal Sidewall Exhauster (23 34 23 00-0028)				
		Note: Greenheck CW.		
23 34 23 00-0030	EA	1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	665.92	170.63
		For Solid State Speed Control, Add	112.99	
		For Backdraft Damper, Add	93.50	
		For Damper Motor, Add	199.99	
		For Interior Wall Grill, Add	76.79	
23 34 23 00-0031	EA	1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster	766.19	200.30
		For Solid State Speed Control, Add	112.99	
		For Backdraft Damper, Add	104.80	
		For Damper Motor, Add	199.99	
		For Interior Wall Grill, Add	91.09	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
HVAC Fans			23 34

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0032	EA		1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,106.45 112.99 119.09 199.99 105.39	225.74
23 34 23 00-0033 Belt Drive, Aluminum, Centrifugal Sidewall Exhausters (23 34 23 00-0028) Note: Greenheck CWB.					
23 34 23 00-0034	EA		1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,463.55 112.99 114.98 199.99 158.30	127.78
23 34 23 00-0035	EA		1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,553.14 112.99 114.98 199.99 158.30	143.89
23 34 23 00-0036	EA		3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,897.97 112.99 141.01 199.99 183.63	164.61
23 34 33 Air Curtains (23 34)					
23 34 33 00-0001 Unheated Air Curtains For Entrances (23 34 33)					
23 34 33 00-0002 Unheated Air Curtains, Standard Velocity (23 34 33 00-0001)					
23 34 33 00-0003	EA		Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,034.35 99.90 271.95 202.02 310.80 122.38 244.76 293.71 310.02	776.84
23 34 33 00-0004	EA		Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,059.55 99.90 271.95 202.02 310.80 122.38 244.76 293.71 310.02	776.84
23 34 33 00-0005	EA		Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,086.85 99.90 271.95 202.02 310.80 122.38 244.76 293.71 310.02	776.84
23 34 33 00-0006	EA		Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,538.35 99.90 271.95 202.02 310.80 122.38 244.76 293.71 310.02	776.84
23 34 33 00-0007	EA		Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,895.67 99.90 271.95 202.02 310.80 122.38 244.76 293.71 310.02	932.63

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0008 EA Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated.....	3,053.17	932.63
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	271.95	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	202.02	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	310.80	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0009 EA Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated.....	3,396.56	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	271.95	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	202.02	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	310.80	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0010 EA Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated.....	4,025.51	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	271.95	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	202.02	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	310.80	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0011 EA Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated.....	4,105.31	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	271.95	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	202.02	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	310.80	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0012 EA Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated.....	4,317.41	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	271.95	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	202.02	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	310.80	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0013 Unheated Air Curtains, High Velocity (23 34 33 00-0001)		
23 34 33 00-0014 EA High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated.....	2,452.25	776.84
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated.....	2,484.80	776.84
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated.....	2,498.45	776.84
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated.....	2,524.70	776.84
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

HVAC Fans

23 34**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated.....	3,853.27	932.63
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated.....	4,014.97	932.63
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated.....	4,298.51	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated.....	4,858.16	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0022 EA High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated.....	4,916.96	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0023 EA High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated.....	5,145.86	1,075.70
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	244.76	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0024 Service Window Unheated Air Curtains (23 34 33 00-0001)		
Note: Normal window sizes.		
23 34 33 00-0025 EA Air Curtain For 2.5' x 5' Service Window, Unheated	1,639.24	612.57
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0026 Heated Air Curtains For Entrances (23 34 33)		
Note: Includes housing, mounting brackets and manual controls.		
23 34 33 00-0027 EA 60" Heated Air Curtain With 1- 300 MBH Heater	3,548.80	684.10
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0028 EA 60" Heated Air Curtain With 1- 400 MBH Heater	3,839.50	684.10
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0029 EA 72" Heated Air Curtain With 1- 350 MBH Heater	4,257.88	820.82
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0030 EA 72" Heated Air Curtain With 2- 250 MBH Heaters	4,606.72	820.82
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0031 EA 96" Heated Air Curtain With 1- 400 MBH Heater	5,676.27	1,094.25
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0032 EA 96" Heated Air Curtain With 2- 350 MBH Heaters	6,141.39	1,094.25
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0033 EA 117" Heated Air Curtain With 2- 300 MBH Heaters	6,916.99	1,333.23
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0034 EA 117" Heated Air Curtain With 2- 400 MBH Heaters	7,483.85	1,333.23
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0035 EA 147" Heated Air Curtain With 2- 350 MBH Heaters	8,691.18	1,675.02
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters	10,101.08	1,675.02
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters	9,933.46	1,914.53
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters	11,544.42	1,914.53
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters	11,348.92	2,187.96
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	
23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters	13,190.02	2,187.96
For Door Limit Switch, Combination Roller And Plunger, Add	99.90	
For Flat Side Extension Plates, Add	122.38	
For Clearance Adjustable-Angle Mounting Bracket, Add	244.76	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	293.71	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	310.02	

23 35 Special Exhaust Systems (23 30)

See CSI section 23 31 13 16-0063 for spiral duct/piping.

23 35 13 Dust Collection Systems (23 35)**23 35 13 00-0001 Dust Collector System** (23 35 13)

23 35 13 00-0002 EA 1.5 HP Dust Collector Central Vacuum Unit	3,121.26	920.89
Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.		
23 35 13 00-0003 EA 2 HP Dust Collector Central Vacuum Unit	3,554.97	1,093.56
Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.		
23 35 13 00-0004 EA 2-1/2 HP Dust Collector Central Vacuum Unit	4,227.75	1,266.23
Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.		
23 35 13 00-0005 EA 3 HP Dust Collector Central Vacuum Unit	4,869.74	1,496.45
Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.		
23 35 13 00-0006 EA 5 HP Dust Collector Central Vacuum Unit	8,770.77	1,619.60
Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.		
23 35 13 00-0007 EA 7-1/2 HP Dust Collector Central Vacuum Unit	10,576.21	1,889.53
Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Special Exhaust Systems

23 35**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 00-0008 EA 10 HP Dust Collector Central Vacuum Unit Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.	12,110.42	2,159.46
23 35 13 00-0009 EA 15 HP Dust Collector Central Vacuum Unit Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.	13,664.97	2,483.38
23 35 13 00-0010 EA 20 HP Dust Collector Central Vacuum Unit Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.	15,279.26	2,807.30
23 35 13 00-0011 Vacuum Tubing And Accessories (23 35 13)		
23 35 13 00-0012 Vacuum Tubing (23 35 13 00-0011)		
23 35 13 00-0013 Galvanized Vacuum Tubing (23 35 13 00-0012)		
23 35 13 00-0014 LF 2-1/8" Outside Diameter Vacuum Tubing, Galvanized.....	6.89	1.91
23 35 13 00-0015 LF 2-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	7.61	2.01
23 35 13 00-0016 LF 3" Outside Diameter Vacuum Tubing, Galvanized.....	8.75	2.12
23 35 13 00-0017 LF 3-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	10.84	2.22
23 35 13 00-0018 LF 4" Outside Diameter Vacuum Tubing, Galvanized.....	11.17	2.33
23 35 13 00-0019 LF 5" Outside Diameter Vacuum Tubing, Galvanized.....	17.25	2.65
23 35 13 00-0020 LF 6" Outside Diameter Vacuum Tubing, Galvanized.....	19.48	3.08
23 35 13 00-0021 LF 8" Outside Diameter Vacuum Tubing, Galvanized.....	26.50	4.24
23 35 13 00-0022 LF 10" Outside Diameter Vacuum Tubing, Galvanized.....	31.39	5.30
23 35 13 00-0023 LF 12" Outside Diameter Vacuum Tubing, Galvanized.....	71.80	7.00
23 35 13 00-0024 Flexible Hose (23 35 13 00-0011)		
23 35 13 00-0025 LF 2" Flexible Hose.....	8.21	1.91
23 35 13 00-0026 LF 3" Flexible Hose.....	9.68	2.12
23 35 13 00-0027 LF 4" Flexible Hose.....	10.53	2.33
23 35 13 00-0028 90 Degree Elbow (23 35 13 00-0011)		
23 35 13 00-0029 EA 2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized	37.32	12.18
23 35 13 00-0030 EA 2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized	44.09	13.04
23 35 13 00-0031 EA 3" 90 Degree Elbow, Vacuum Tubing, Galvanized	52.74	14.20
23 35 13 00-0032 EA 3-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized	60.87	15.37
23 35 13 00-0033 EA 4" 90 Degree Elbow, Vacuum Tubing, Galvanized	71.04	16.96
23 35 13 00-0034 EA 5" 90 Degree Elbow, Vacuum Tubing, Galvanized	107.77	18.87
23 35 13 00-0035 EA 6" 90 Degree Elbow, Vacuum Tubing, Galvanized	139.01	21.19
23 35 13 00-0036 EA 8" 90 Degree Elbow, Vacuum Tubing, Galvanized	239.17	28.30
23 35 13 00-0037 45 Degree Elbow (23 35 13 00-0011)		
23 35 13 00-0038 EA 2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized	35.76	12.18
23 35 13 00-0039 EA 2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized	42.81	13.04
23 35 13 00-0040 EA 3" 45 Degree Elbow, Vacuum Tubing, Galvanized	48.45	14.20
23 35 13 00-0041 EA 3-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized	56.03	15.37
23 35 13 00-0042 EA 4" 45 Degree Elbow, Vacuum Tubing, Galvanized	66.57	16.96
23 35 13 00-0043 EA 5" 45 Degree Elbow, Vacuum Tubing, Galvanized	92.25	18.87
23 35 13 00-0044 EA 6" 45 Degree Elbow, Vacuum Tubing, Galvanized	116.19	21.19
23 35 13 00-0045 EA 8" 45 Degree Elbow, Vacuum Tubing, Galvanized	200.83	28.30
23 35 13 00-0046 Wye (23 35 13 00-0011)		
23 35 13 00-0047 EA 2-1/8" Wye, Vacuum Tubing, Galvanized	65.76	20.14
23 35 13 00-0048 EA 2-1/2" Wye, Vacuum Tubing, Galvanized	76.31	21.72
23 35 13 00-0049 EA 3" Wye, Vacuum Tubing, Galvanized	89.94	23.31
23 35 13 00-0050 EA 3-1/2" Wye, Vacuum Tubing, Galvanized	106.17	25.97
23 35 13 00-0051 EA 4" Wye, Vacuum Tubing, Galvanized	135.10	28.09
23 35 13 00-0052 EA 5" Wye, Vacuum Tubing, Galvanized	210.92	31.26
23 35 13 00-0053 EA 6" Wye, Vacuum Tubing, Galvanized	272.79	35.51
23 35 13 00-0054 EA 8" Wye, Vacuum Tubing, Galvanized	505.64	38.68
23 35 13 00-0055 EA 10" Wye, Vacuum Tubing, Galvanized	688.42	42.39
23 35 13 00-0056 EA 12" Wye, Vacuum Tubing, Galvanized	863.47	47.48
23 35 13 00-0057 Reducer (23 35 13 00-0011)		
23 35 13 00-0058 EA 3" Reducer, Vacuum Tubing, Galvanized.....	40.24	14.20
23 35 13 00-0059 EA 4" Reducer, Vacuum Tubing, Galvanized.....	44.39	15.37
23 35 13 00-0060 EA 5" Reducer, Vacuum Tubing, Galvanized.....	53.41	16.96
23 35 13 00-0061 EA 6" Reducer, Vacuum Tubing, Galvanized.....	58.22	18.87
23 35 13 00-0062 EA 8" Reducer, Vacuum Tubing, Galvanized.....	67.20	21.19
23 35 13 00-0063 Air Gate Valve, Galvanized (23 35 13 00-0011)		
23 35 13 00-0064 EA 2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized	204.63	28.30
23 35 13 00-0065 EA 2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized	214.99	30.21
23 35 13 00-0066 EA 3" Air Gate Valve, Vacuum Tubing, Galvanized	245.02	32.54
23 35 13 00-0067 EA 3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized	275.87	34.76
23 35 13 00-0068 EA 4" Air Gate Valve, Vacuum Tubing, Galvanized	309.22	36.88

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 00-0069 EA 5" Air Gate Valve, Vacuum Tubing, Galvanized.....	363.45	42.07
23 35 13 00-0070 EA 6" Air Gate Valve, Vacuum Tubing, Galvanized.....	416.78	47.16
23 35 16 Engine Exhaust Systems (23 35)		
23 35 16 16 Mechanical Engine Exhaust Systems (23 35 16)		
23 35 16 16-0001 Tailpipe Exhaust Equipment (23 35 16 16)		
23 35 16 16-0002 Overhead Tailpipe Exhaust System (23 35 16 16-0001)		
23 35 16 16-0003 Overhead Tailpipe Exhaust Blowers (23 35 16 16-0002)		
23 35 16 16-0004 Overhead Direct Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)		
23 35 16 16-0005 EA 495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	2,395.05	225.74
23 35 16 16-0006 EA 1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	2,900.50	461.01
23 35 16 16-0007 EA 1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	3,983.18	558.51
23 35 16 16-0008 Overhead Belt Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)		
23 35 16 16-0009 EA 1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	2,828.32	461.01
23 35 16 16-0010 EA 2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	3,056.04	558.51
23 35 16 16-0011 EA 2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	3,796.85	883.87
23 35 16 16-0012 EA 4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	4,684.08	1,140.35
23 35 16 16-0013 EA 7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	5,867.62	1,358.66
23 35 16 16-0014 Spiral Exhaust Duct Accessories (23 35 16 16-0002)		
23 35 16 16-0015 Flex Hose x Length (23 35 16 16-0014)		
Note: Includes duct coupler, damper and tailpipe adapter.		
23 35 16 16-0016 EA 3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	175.23	56.16
23 35 16 16-0017 EA 3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	146.16	56.16
23 35 16 16-0018 EA 4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	267.55	89.03
23 35 16 16-0019 EA 4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	218.97	89.03
23 35 16 16-0020 EA 5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	372.67	140.95
23 35 16 16-0021 EA 5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	355.28	140.95
23 35 16 16-0022 EA 6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	565.81	223.61
23 35 16 16-0023 EA 6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	529.23	223.61
23 35 16 16-0024 Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter (23 35 16 16-0014)		
23 35 16 16-0025 EA 4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	198.42	56.16
23 35 16 16-0026 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	284.48	89.03
23 35 16 16-0027 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	164.93	56.16
23 35 16 16-0028 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	234.79	89.03
23 35 16 16-0029 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	1,722.84	75.67
23 35 16 16-0030 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter	1,474.29	138.84
23 35 16 16-0031 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter	1,631.75	138.84
23 35 16 16-0032 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.)	77.36	10.81
23 35 16 16-0033 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.)	87.03	10.81
23 35 16 16-0034 Flexible Hose (23 35 16 16-0014)		
23 35 16 16-0035 LF 3" Stainless Steel Flexible Tubing.....	22.80	2.65
23 35 16 16-0036 LF 4" Stainless Steel Flexible Tubing.....	28.64	2.97
23 35 16 16-0037 LF 5" Stainless Steel Flexible Tubing.....	33.68	3.08
23 35 16 16-0038 LF 6" Stainless Steel Flexible Tubing.....	39.43	3.29
23 35 16 16-0039 LF 3" Galvanized Flexible Tubing	14.06	2.65
23 35 16 16-0040 LF 4" Galvanized Flexible Tubing	16.36	2.97
23 35 16 16-0041 LF 5" Galvanized Flexible Tubing	18.51	3.08
23 35 16 16-0042 LF 6" Galvanized Flexible Tubing	20.50	3.29
23 35 16 16-0043 Accessories (23 35 16 16-0002)		
23 35 16 16-0044 EA 3" Tail Pipe Adapter	63.95	7.95
23 35 16 16-0045 EA 4" Tail Pipe Adapter	65.87	7.95
23 35 16 16-0046 EA 5" Tail Pipe Adapter	69.92	9.01
23 35 16 16-0047 EA 3" Bullnose (Guide).....	35.16	5.30
23 35 16 16-0048 EA 4" Bullnose (Guide).....	37.29	5.83
23 35 16 16-0049 EA 5" Bullnose (Guide).....	39.74	6.36
23 35 16 16-0050 EA Flex-Hose Winch And Associated Hardware	249.54	60.10
23 35 16 16-0051 LF Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope	0.16	
23 35 16 16-0052 Automatic Exhaust Extraction System (23 35 16 16-0001)		
Note: (Neiderman System) Includes track, hydraulic shock absorber, automatic disconnect box, flexible hose, electromagnetic ergonomic positioner, nozzle, power supply and accessories.		
23 35 16 16-0053 EA Magnatrack System For One Vehicle (30" To 40" Track)	20,313.45	
23 35 16 16-0054 EA Magnatrack System For Two Vehicles (2 Each 30" Tracks)	29,341.65	
23 35 16 16-0055 EA Magnatrack System For Tandem Vehicles (2 Each 30" Tracks).....	29,341.65	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Special Exhaust Systems			23 35

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 16 16-0056 EA Magnarail System For One Vehicle (33" Rail)	24,075.20	
23 35 16 16-0057 EA Magnarail System For Two Vehicles in Tandem (66" Rail)	36,112.80	
23 35 16 16-0058 EA Magnastack For One Vehicle, Vertical Exhaust Stacks (30" Stack)	18,808.75	
23 35 19 Fume Exhaust (23 35)		
23 35 19 00-0001 EA Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle	1,860.63	423.60
23 35 19 00-0002 EA Hose Extension Kit 5'	351.70	94.11
23 36 Air Terminal Units (23 30)		
23 36 13 Constant-Air-Volume Units (23 36)		
23 36 13 00-0001 Vertical Units, With Electric Heating Coils (23 36 13)		
23 36 13 00-0002 EA 60 CFM Vertical Induction Unit, With Electric Heating Coils	1,470.15	144.90
23 36 13 00-0003 EA 90 CFM Vertical Induction Unit, With Electric Heating Coils	1,764.88	156.05
23 36 13 00-0004 EA 120 CFM Vertical Induction Unit, With Electric Heating Coils	1,881.90	161.62
23 36 13 00-0005 EA 150 CFM Vertical Induction Unit, With Electric Heating Coils	2,010.08	172.77
23 36 13 00-0006 EA 175 CFM Vertical Induction Unit, With Electric Heating Coils	2,264.11	178.35
23 36 13 00-0007 Horizontal Units, With Electric Heating Coils (23 36 13)		
23 36 13 00-0008 EA 60 CFM Horizontal Induction Unit, With Electric Heating Coils	1,252.30	144.90
23 36 13 00-0009 EA 90 CFM Horizontal Induction Unit, With Electric Heating Coils	1,492.45	156.05
23 36 13 00-0010 EA 120 CFM Horizontal Induction Unit, With Electric Heating Coils	1,776.38	164.42
23 36 13 00-0011 Duct Boxes, Constant Volume Control (23 36 13)		
23 36 13 00-0012 Single Duct Boxes, Constant Volume Control (23 36 13 00-0011)		
23 36 13 00-0013 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control	887.41	43.74
For Boxes With Motor, Add	20.00	
23 36 13 00-0014 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control	981.23	47.20
For Boxes With Motor, Add	20.00	
23 36 13 00-0015 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control	1,023.49	51.80
For Boxes With Motor, Add	20.00	
23 36 13 00-0016 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control	1,043.85	54.10
For Boxes With Motor, Add	20.00	
23 36 13 00-0017 EA 12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control	1,066.17	59.86
For Boxes With Motor, Add	20.00	
23 36 13 00-0018 EA 14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control	1,218.18	66.76
For Boxes With Motor, Add	20.00	
23 36 13 00-0019 EA 16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control	1,284.53	74.82
For Boxes With Motor, Add	20.00	
23 36 13 00-0020 EA 20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control	1,376.97	89.79
For Boxes With Motor, Add	20.00	
23 36 13 00-0021 EA 24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control	1,468.94	103.60
For Boxes With Motor, Add	20.00	
23 36 13 00-0022 Dual Duct Boxes, Constant Volume Control (23 36 13 00-0011)		
23 36 13 00-0023 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control	1,223.66	43.74
For Boxes With Motor, Add	20.00	
23 36 13 00-0024 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control	1,310.31	47.20
For Boxes With Motor, Add	20.00	
23 36 13 00-0025 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control	1,371.27	51.80
For Boxes With Motor, Add	20.00	
23 36 13 00-0026 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control	1,428.69	54.10
For Boxes With Motor, Add	20.00	
23 36 13 00-0027 EA 12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control	1,451.01	59.86
For Boxes With Motor, Add	20.00	
23 36 13 00-0028 EA 14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control	1,665.97	67.92
For Boxes With Motor, Add	20.00	
23 36 13 00-0029 EA 16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control	1,823.38	74.82
For Boxes With Motor, Add	20.00	
23 36 13 00-0030 EA 20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control	1,975.85	89.79
For Boxes With Motor, Add	20.00	
23 36 13 00-0031 EA 24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control	2,077.35	103.60
For Boxes With Motor, Add	20.00	
23 36 16 Variable-Air-Volume Units (23 36)		
23 36 16 00-0001 Variable Volume Terminal Unit (23 36 16)		
Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat.		
23 36 16 00-0002 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)		
Note: Enclosure only. For mounting DDC controls.		
23 36 16 00-0003 EA 6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls	327.33	52.95
For Filters And Frames, Add	6.30	
23 36 16 00-0004 EA 8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls	368.89	59.86
For Filters And Frames, Add	6.30	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 36 Air Terminal Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0005 EA 10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls	413.24	66.76
For Filters And Frames, Add	6.30	
23 36 16 00-0006 EA 12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls	449.64	74.82
For Filters And Frames, Add	6.30	
23 36 16 00-0007 EA 14" Diameter Inlet, 450 - 3,000 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls	610.04	161.04
For Filters And Frames, Add	6.30	
23 36 16 00-0008 EA 16" Diameter Inlet, 580 - 4,000 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls	798.34	191.08
For Filters And Frames, Add	6.30	
23 36 16 00-0009 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)		
Note: With pneumatic controls.		
23 36 16 00-0010 EA 6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller	534.42	52.95
For Fan Powered Variable Air Volume Box, Add	443.44	
For Hot Water Coils, Add	40.55	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0011 EA 8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller	585.69	59.86
For Fan Powered Variable Air Volume Box, Add	476.56	
For Hot Water Coils, Add	40.55	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0012 EA 10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller	626.30	66.76
For Fan Powered Variable Air Volume Box, Add	494.16	
For Hot Water Coils, Add	40.55	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0013 EA 12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller	666.44	74.82
For Fan Powered Variable Air Volume Box, Add	510.87	
For Hot Water Coils, Add	40.55	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0014 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller.....	806.66	161.04
For Fan Powered Variable Air Volume Box, Add	580.57	
For Hot Water Coils, Add	40.55	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0015 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller.....	1,011.41	191.08
For Fan Powered Variable Air Volume Box, Add	646.40	
For Hot Water Coils, Add	40.55	
For Pressure Independent Actuator, Add	67.57	
For Filters And Frames, Add	6.30	
23 36 16 00-0016 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)		
Note: With analog electronic controls.		
23 36 16 00-0017 EA 6" Diameter Inlet, 60 - 500 CFM, Variable Air Volume Box With analog electronic controls	792.34	52.95
For Hot Water Coils, Add	40.55	
For Filters And Frames, Add	6.30	
23 36 16 00-0018 EA 8" Diameter Inlet, 105 - 900 CFM, Variable Air Volume Box With analog electronic controls	837.63	59.86
For Hot Water Coils, Add	40.55	
For Filters And Frames, Add	6.30	
23 36 16 00-0019 EA 10" Diameter Inlet, 165 - 1,400 CFM, Variable Air Volume Box With analog electronic controls	881.98	66.76
For Hot Water Coils, Add	40.55	
For Filters And Frames, Add	6.30	
23 36 16 00-0020 EA 12" Diameter Inlet, 235 - 2,000 CFM, Variable Air Volume Box With analog electronic controls	936.33	74.82
For Hot Water Coils, Add	40.55	
For Filters And Frames, Add	6.30	
23 36 16 00-0021 EA 14" Diameter Inlet, 320 - 3,000 CFM, Variable Air Volume Box With analog electronic controls	1,077.29	161.04
For Hot Water Coils, Add	40.55	
For Filters And Frames, Add	6.30	
23 36 16 00-0022 EA 16" Diameter Inlet, 420 - 4,000 CFM, Variable Air Volume Box With analog electronic controls	1,092.24	161.04
For Hot Water Coils, Add	40.55	
For Filters And Frames, Add	6.30	
23 36 16 00-0023 Dual Duct Variable Volume Terminal Unit (23 36 16 00-0001)		
Note: With flow control installation, plenum system power box, thermostat.		
23 36 16 00-0024 EA 6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct	586.78	104.63
For Filters And Frames, Add	6.30	
23 36 16 00-0025 EA 8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct	647.86	119.14
For Filters And Frames, Add	6.30	
23 36 16 00-0026 EA 10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct	702.90	134.56
For Filters And Frames, Add	6.30	
23 36 16 00-0027 EA 12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct	774.26	150.11
For Filters And Frames, Add	6.30	
23 36 16 00-0028 EA 14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct	875.54	172.67
For Filters And Frames, Add	6.30	
23 36 16 00-0029 EA 16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct	984.77	207.20
For Filters And Frames, Add	6.30	
23 36 16 00-0030 Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) (23 36 16 00-0001)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Terminal Units

23 36**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0031 EA 0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A).....	440.82	71.95
For Filters And Frames, Add	6.30	
23 36 16 00-0032 EA 0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B).....	480.32	79.13
For Filters And Frames, Add	6.30	
23 36 16 00-0033 EA 0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C).....	520.55	86.33
For Filters And Frames, Add	6.30	
23 36 16 00-0034 EA 0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D).....	561.60	93.53
For Filters And Frames, Add	6.30	
23 36 16 00-0035 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E).....	603.51	100.72
For Filters And Frames, Add	6.30	
23 36 16 00-0036 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F).....	646.33	107.92
For Filters And Frames, Add	6.30	
23 36 16 00-0037 EA 0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G).....	692.65	115.11
For Filters And Frames, Add	6.30	
23 36 16 00-0038 EA 0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H).....	737.69	122.31
For Filters And Frames, Add	6.30	
23 36 16 00-0039 EA 0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J).....	783.86	129.51
For Filters And Frames, Add	6.30	
23 36 16 00-0040 EA 0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K).....	831.24	136.69
For Filters And Frames, Add	6.30	
23 36 16 00-0041 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L).....	879.95	143.89
For Filters And Frames, Add	6.30	
23 36 16 00-0042 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M).....	930.02	151.08
For Filters And Frames, Add	6.30	
23 36 16 00-0043 EA 0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N).....	981.59	158.28
For Filters And Frames, Add	6.30	
23 36 16 00-0044 EA 0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P).....	1,031.31	165.47
For Filters And Frames, Add	6.30	
23 36 16 00-0045 EA 0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R).....	1,085.95	172.67
For Filters And Frames, Add	6.30	

23 37 Air Outlets And Inlets (23 37)**23 37 13 Diffusers, Registers, And Grilles** (23 37)**23 37 13 00-0001 Wall And Floor Diffusers** (23 37 13)**23 37 13 00-0002 Slot Type Linear Diffusers** (23 37 13 00-0001)

Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.

23 37 13 00-0003 LF 1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	39.76	5.76
For 3/4" Border, Add	3.90	
For Floor Mounted Diffusers, Add	4.67	
For Stainless Steel, Add	20.25	
23 37 13 00-0004 LF 2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....	47.23	6.90
For 3/4" Border, Add	5.19	
For Floor Mounted Diffusers, Add	6.23	
For Stainless Steel, Add	27.00	
23 37 13 00-0005 LF 3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....	62.66	8.06
For 3/4" Border, Add	8.18	
For Floor Mounted Diffusers, Add	9.82	
For Stainless Steel, Add	42.54	
23 37 13 00-0006 LF 4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....	80.11	8.06
For 3/4" Border, Add	11.69	
For Floor Mounted Diffusers, Add	14.02	
For Stainless Steel, Add	60.76	
23 37 13 00-0007 LF 5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....	98.79	9.21
For 3/4" Border, Add	15.19	
For Floor Mounted Diffusers, Add	18.23	
For Stainless Steel, Add	79.00	
23 37 13 00-0008 LF 6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....	115.39	11.51
For 3/4" Border, Add	17.92	
For Floor Mounted Diffusers, Add	21.50	
For Stainless Steel, Add	93.17	

23 37 13 00-0009 Linear Bar Grilles And Registers (23 37 13 00-0001)

Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction.

23 37 13 00-0010 LF 2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	101.77	6.90
For Floor Mount, Add	7.53	
For Opposed Blade Damper, Add	15.06	
For Stainless Steel, Add	97.90	
23 37 13 00-0011 LF 3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....	120.83	8.06
For Floor Mount, Add	9.09	
For Opposed Blade Damper, Add	18.18	
For Stainless Steel, Add	118.16	
23 37 13 00-0012 LF 4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....	132.05	8.06
For Floor Mount, Add	9.87	
For Opposed Blade Damper, Add	19.74	
For Stainless Steel, Add	128.28	
23 37 13 00-0013 LF 6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....	163.17	11.51
For Floor Mount, Add	11.95	
For Opposed Blade Damper, Add	23.89	
For Stainless Steel, Add	155.29	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0014	LF	9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....	224.89	14.96
		For Floor Mount, Add	16.62	
		For Opposed Blade Damper, Add	33.24	
		For Stainless Steel, Add	216.06	
23 37 13 00-0015	LF	12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....	261.02	17.27
		For Floor Mount, Add	18.96	
		For Opposed Blade Damper, Add	37.91	
		For Stainless Steel, Add	246.44	
23 37 13 00-0016		Ceiling Diffusers (23 37 13)		
23 37 13 00-0017		Ceiling Diffusers With Perforated Face (23 37 13 00-0016)		
		Note: Flush mount, aluminum construction, includes damper.		
23 37 13 00-0018	EA	6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	89.53	14.96
		For Steel Construction, Deduct	-4.55	
		For Surface Mount, Deduct	-3.64	
		For Diffuser Without Damper, Deduct	-6.07	
		For Stainless Steel, Add	75.83	
23 37 13 00-0019	EA	8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	96.27	14.96
		For Steel Construction, Deduct	-5.56	
		For Surface Mount, Deduct	-4.45	
		For Diffuser Without Damper, Deduct	-7.41	
		For Stainless Steel, Add	92.68	
23 37 13 00-0020	EA	9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	96.27	14.96
		For Steel Construction, Deduct	-5.56	
		For Surface Mount, Deduct	-4.45	
		For Diffuser Without Damper, Deduct	-7.41	
		For Stainless Steel, Add	92.68	
23 37 13 00-0021	EA	10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	115.82	18.42
		For Steel Construction, Deduct	-6.66	
		For Surface Mount, Deduct	-5.32	
		For Diffuser Without Damper, Deduct	-8.87	
		For Stainless Steel, Add	110.93	
23 37 13 00-0022	EA	12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	115.82	17.27
		For Steel Construction, Deduct	-6.66	
		For Surface Mount, Deduct	-5.32	
		For Diffuser Without Damper, Deduct	-8.87	
		For Stainless Steel, Add	110.93	
23 37 13 00-0023	EA	16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	128.18	17.27
		For Steel Construction, Deduct	-8.51	
		For Surface Mount, Deduct	-6.81	
		For Diffuser Without Damper, Deduct	-11.35	
		For Stainless Steel, Add	141.83	
23 37 13 00-0024	EA	18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	150.70	23.02
		For Steel Construction, Deduct	-9.15	
		For Surface Mount, Deduct	-7.32	
		For Diffuser Without Damper, Deduct	-12.20	
		For Stainless Steel, Add	152.50	
23 37 13 00-0025	EA	20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	170.34	24.17
		For Steel Construction, Deduct	-11.42	
		For Surface Mount, Deduct	-9.14	
		For Diffuser Without Damper, Deduct	-15.23	
		For Stainless Steel, Add	190.40	
23 37 13 00-0026	EA	24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	194.33	27.63
		For Steel Construction, Deduct	-12.71	
		For Surface Mount, Deduct	-10.16	
		For Lay-In Mount, Deduct	-10.16	
		For Diffuser Without Damper, Deduct	-16.94	
		For Stainless Steel, Add	211.75	
23 37 13 00-0027		Ceiling Diffusers With Louver Face (23 37 13 00-0016)		
		Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.		
23 37 13 00-0028	EA	6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	91.78	14.96
		For Steel Construction, Deduct	-4.89	
		For Flush Mount, Add	4.89	
		For Stainless Steel, Add	81.45	
23 37 13 00-0029	EA	8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	100.54	14.96
		For Steel Construction, Deduct	-6.20	
		For Flush Mount, Add	6.20	
		For Stainless Steel, Add	103.35	
23 37 13 00-0030	EA	9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	100.54	14.96
		For Steel Construction, Deduct	-6.20	
		For Flush Mount, Add	6.20	
		For Stainless Steel, Add	103.35	
23 37 13 00-0031	EA	10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	120.88	17.27
		For Steel Construction, Deduct	-7.41	
		For Flush Mount, Add	7.41	
		For Stainless Steel, Add	123.58	
23 37 13 00-0032	EA	12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	120.88	18.42
		For Steel Construction, Deduct	-7.41	
		For Flush Mount, Add	7.41	
		For Stainless Steel, Add	123.58	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets And Inlets

23 37**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0033	EA		24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	154.80	23.02
			For Steel Construction, Deduct	-9.71	
			For Flush Mount, Add	9.71	
			For Stainless Steel, Add	161.78	
23 37 13 00-0034	EA		14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	142.89	23.02
			For Steel Construction, Deduct	-7.92	
			For Flush Mount, Add	7.92	
			For Stainless Steel, Add	132.00	
23 37 13 00-0035	EA		18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	176.79	27.63
			For Steel Construction, Deduct	-10.16	
			For Flush Mount, Add	10.16	
			For Stainless Steel, Add	169.35	
23 37 13 00-0036	EA		21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	199.23	31.08
			For Steel Construction, Deduct	-12.64	
			For Flush Mount, Add	12.64	
			For Stainless Steel, Add	210.63	
23 37 13 00-0037	EA		24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	215.92	60.89
			For Steel Construction, Deduct	-14.10	
			For Flush Mount, Add	14.10	
			For Lay-In Mount, Add	18.81	
			For Stainless Steel, Add	235.08	
23 37 13 00-0038			Round Ceiling Diffusers With Fixed Pattern (23 37 13 00-0016)		
			Note: Aluminum construction.		
23 37 13 00-0039	EA		6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	132.12	14.96
			For Steel Construction, Deduct	-21.88	
			For Stainless Steel, Add	182.30	
23 37 13 00-0040	EA		8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	135.86	14.96
			For Steel Construction, Deduct	-23.00	
			For Stainless Steel, Add	191.65	
23 37 13 00-0041	EA		10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	155.59	18.42
			For Steel Construction, Deduct	-25.24	
			For Stainless Steel, Add	210.35	
23 37 13 00-0042	EA		12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	164.93	17.27
			For Steel Construction, Deduct	-28.04	
			For Stainless Steel, Add	233.70	
23 37 13 00-0043	EA		14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	226.85	20.72
			For Steel Construction, Deduct	-43.19	
			For Stainless Steel, Add	359.93	
23 37 13 00-0044	EA		16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	238.71	21.87
			For Steel Construction, Deduct	-45.71	
			For Stainless Steel, Add	380.95	
23 37 13 00-0045	EA		18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	250.88	23.02
			For Steel Construction, Deduct	-48.24	
			For Stainless Steel, Add	401.98	
23 37 13 00-0046	EA		20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	285.30	23.02
			For Steel Construction, Deduct	-57.34	
			For Stainless Steel, Add	477.80	
23 37 13 00-0047	EA		24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	336.27	26.47
			For Steel Construction, Deduct	-69.80	
			For Stainless Steel, Add	581.68	
23 37 13 00-0048	EA		28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	374.96	27.63
			For Steel Construction, Deduct	-79.77	
			For Stainless Steel, Add	664.78	
23 37 13 00-0049	EA		32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	443.89	31.08
			For Steel Construction, Deduct	-96.60	
			For Stainless Steel, Add	805.00	
23 37 13 00-0050			Round Ceiling Diffusers With Adjustable Pattern Dropped Style (23 37 13 00-0016)		
			Note: Aluminum construction.		
23 37 13 00-0051	EA		6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	137.73	14.96
			For Steel Construction, Deduct	-7.85	
			For Flush Mount, Deduct	-3.93	
			For Stainless Steel, Add	196.33	
23 37 13 00-0052	EA		8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	147.39	14.96
			For Steel Construction, Deduct	-8.82	
			For Flush Mount, Deduct	-4.41	
			For Stainless Steel, Add	220.48	
23 37 13 00-0053	EA		10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	169.09	18.42
			For Steel Construction, Deduct	-9.76	
			For Flush Mount, Deduct	-4.88	
			For Stainless Steel, Add	244.10	
23 37 13 00-0054	EA		12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction	179.89	18.42
			For Steel Construction, Deduct	-10.84	
			For Flush Mount, Deduct	-5.42	
			For Stainless Steel, Add	271.10	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0055 EA 14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	251.15	20.72
For Steel Construction, Deduct	-16.83	
For Flush Mount, Deduct	-8.41	
For Stainless Steel, Add	420.68	
23 37 13 00-0056 EA 16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	188.43	21.87
For Steel Construction, Deduct	-17.98	
For Flush Mount, Deduct	-8.99	
For Stainless Steel, Add	449.50	
23 37 13 00-0057 EA 18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	281.42	23.02
For Steel Construction, Deduct	-19.13	
For Flush Mount, Deduct	-9.57	
For Stainless Steel, Add	478.33	
23 37 13 00-0058 EA 20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	321.66	24.17
For Steel Construction, Deduct	-22.75	
For Flush Mount, Deduct	-11.37	
For Stainless Steel, Add	568.70	
23 37 13 00-0059 EA 24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	362.03	26.47
For Steel Construction, Deduct	-25.84	
For Flush Mount, Deduct	-12.92	
For Stainless Steel, Add	646.08	
23 37 13 00-0060 EA 28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	431.05	27.63
For Steel Construction, Deduct	-32.20	
For Flush Mount, Deduct	-16.10	
For Stainless Steel, Add	805.00	
23 37 13 00-0061 EA 32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	514.73	31.08
For Steel Construction, Deduct	-39.28	
For Flush Mount, Deduct	-19.64	
For Stainless Steel, Add	982.10	
23 37 13 00-0062 EA 36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	567.65	64.80
For Stainless Steel, Add	1,095.35	
23 37 13 00-0063 Linear Type Ceiling Diffusers With 2-Way Air Deflection (23 37 13 00-0016)		
23 37 13 00-0064 LF 4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection.....	116.24	17.27
For Stainless Steel, Add	117.95	
23 37 13 00-0065 LF 6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection.....	122.66	17.27
For Stainless Steel, Add	134.00	
23 37 13 00-0066 LF 9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection.....	130.55	17.27
For Stainless Steel, Add	153.73	
23 37 13 00-0067 LF 12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection.....	138.24	17.27
For Stainless Steel, Add	172.95	
23 37 13 00-0068 Return/Exhaust Registers And Grilles (23 37 13)		
23 37 13 00-0069 Return/Exhaust Registers With Frame (23 37 13 00-0068)		
Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.		
23 37 13 00-0070 EA 8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	77.54	9.21
For Steel Construction, Deduct	-8.36	
For Grilles (No Damper), Deduct	-16.72	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	4.18	
For Cube Core Lay In, Add	8.36	
For Stainless Steel, Add	104.53	
23 37 13 00-0071 EA 8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	86.63	9.21
For Steel Construction, Deduct	-10.18	
For Grilles (No Damper), Deduct	-20.36	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	5.09	
For Cube Core Lay In, Add	10.18	
For Stainless Steel, Add	127.25	
23 37 13 00-0072 EA 10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	97.79	10.36
For Steel Construction, Deduct	-11.27	
For Grilles (No Damper), Deduct	-22.54	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	5.64	
For Cube Core Lay In, Add	11.27	
For Stainless Steel, Add	140.88	
23 37 13 00-0073 EA 10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	104.54	11.51
For Steel Construction, Deduct	-11.27	
For Grilles (No Damper), Deduct	-22.54	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	5.64	
For Cube Core Lay In, Add	11.27	
For Stainless Steel, Add	140.88	
23 37 13 00-0074 EA 12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	100.90	11.51
For Steel Construction, Deduct	-10.54	
For Grilles (No Damper), Deduct	-21.08	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	5.27	
For Cube Core Lay In, Add	10.54	
For Stainless Steel, Add	131.78	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets And Inlets

23 37**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0075	EA	12" x 12"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	128.28	14.96
			For Steel Construction, Deduct	-13.82	
			For Grilles (No Damper), Deduct	-27.63	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	6.91	
			For Cube Core Lay In, Add	13.82	
			For Stainless Steel, Add	172.70	
23 37 13 00-0076	EA	16" x 16"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	153.92	17.27
			For Steel Construction, Deduct	-16.49	
			For Grilles (No Damper), Deduct	-32.99	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	8.25	
			For Cube Core Lay In, Add	16.49	
			For Stainless Steel, Add	206.18	
23 37 13 00-0077	EA	18" x 18"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	186.49	20.72
			For Steel Construction, Deduct	-20.72	
			For Grilles (No Damper), Deduct	-41.44	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	10.36	
			For Cube Core Lay In, Add	20.72	
			For Stainless Steel, Add	259.03	
23 37 13 00-0078	EA	20" x 20"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	215.56	23.02
			For Steel Construction, Deduct	-25.09	
			For Grilles (No Damper), Deduct	-50.19	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	12.55	
			For Cube Core Lay In, Add	25.09	
			For Stainless Steel, Add	313.68	
23 37 13 00-0079	EA	24" x 12"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	199.12	23.02
			For Steel Construction, Deduct	-20.99	
			For Grilles (No Damper), Deduct	-41.98	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	10.49	
			For Cube Core Lay In, Add	20.99	
			For Stainless Steel, Add	262.35	
23 37 13 00-0080	EA	24" x 18"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	221.42	23.02
			For Steel Construction, Deduct	-25.45	
			For Grilles (No Damper), Deduct	-50.90	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	12.72	
			For Cube Core Lay In, Add	25.45	
			For Stainless Steel, Add	318.10	
23 37 13 00-0081	EA	24" x 24"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	235.48	26.47
			For Steel Construction, Deduct	-26.38	
			For Grilles (No Damper), Deduct	-52.75	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	13.19	
			For Cube Core Lay In, Add	26.38	
			For Stainless Steel, Add	329.70	
23 37 13 00-0082	EA	30" x 12"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	249.21	27.63
			For Steel Construction, Deduct	-28.03	
			For Grilles (No Damper), Deduct	-56.06	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	14.02	
			For Cube Core Lay In, Add	28.03	
			For Stainless Steel, Add	350.40	
23 37 13 00-0083	EA	30" x 18"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	285.48	31.08
			For Steel Construction, Deduct	-32.72	
			For Grilles (No Damper), Deduct	-65.44	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	16.36	
			For Cube Core Lay In, Add	32.72	
			For Stainless Steel, Add	408.98	
23 37 13 00-0084	EA	30" x 24"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	325.04	36.83
			For Steel Construction, Deduct	-35.41	
			For Grilles (No Damper), Deduct	-70.82	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	17.70	
			For Cube Core Lay In, Add	35.41	
			For Stainless Steel, Add	442.60	
23 37 13 00-0085	EA	30" x 30"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	402.01	36.83
			For Steel Construction, Deduct	-50.80	
			For Grilles (No Damper), Deduct	-101.60	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	25.40	
			For Cube Core Lay In, Add	50.80	
			For Stainless Steel, Add	635.03	
23 37 13 00-0086	EA	36" x 12"	Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	350.63	40.29
			For Steel Construction, Deduct	-38.25	
			For Grilles (No Damper), Deduct	-76.50	
			For Removable Core, Add	35.00	
			For Cube Core With Frame, Add	19.13	
			For Cube Core Lay In, Add	38.25	
			For Stainless Steel, Add	478.13	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0087 EA 36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	343.32	39.14
For Steel Construction, Deduct	-36.79	
For Grilles (No Damper), Deduct	-73.58	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	18.39	
For Cube Core Lay In, Add	36.79	
For Stainless Steel, Add	459.85	
23 37 13 00-0088 EA 36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	386.88	43.74
For Steel Construction, Deduct	-42.84	
For Grilles (No Damper), Deduct	-85.68	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	21.42	
For Cube Core Lay In, Add	42.84	
For Stainless Steel, Add	535.53	
23 37 13 00-0089 EA 36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	503.64	47.20
For Steel Construction, Deduct	-63.05	
For Grilles (No Damper), Deduct	-126.11	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	31.53	
For Cube Core Lay In, Add	63.05	
For Stainless Steel, Add	788.18	
23 37 13 00-0090 EA 24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	233.80	26.59
For Steel Construction, Deduct	-25.51	
For Grilles (No Damper), Deduct	-51.02	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	12.76	
For Cube Core Lay In, Add	25.51	
For Stainless Steel, Add	318.90	
23 37 13 00-0091 EA 32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	421.38	47.08
For Steel Construction, Deduct	-46.60	
For Grilles (No Damper), Deduct	-93.20	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	23.30	
For Cube Core Lay In, Add	46.60	
For Stainless Steel, Add	582.53	
23 37 13 00-0092 EA 48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	440.05	46.05
For Steel Construction, Deduct	-53.48	
For Grilles (No Damper), Deduct	-106.95	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	26.74	
For Cube Core Lay In, Add	53.48	
For Stainless Steel, Add	668.45	
23 37 13 00-0093 Return/Exhaust Registers Removable-Reversible (23 37 13 00-0088)		
Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.		
23 37 13 00-0094 EA 8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	72.81	9.21
For Steel Construction, Deduct	-3.71	
For Flat Frame, Deduct	-0.37	
For Grilles (No Damper), Deduct	-7.42	
For Stainless Steel, Add	92.70	
23 37 13 00-0095 EA 8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	72.81	9.21
For Steel Construction, Deduct	-3.71	
For Flat Frame, Deduct	-0.37	
For Grilles (No Damper), Deduct	-7.42	
For Stainless Steel, Add	92.70	
23 37 13 00-0096 EA 10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	88.34	10.36
For Steel Construction, Deduct	-4.69	
For Flat Frame, Deduct	-0.47	
For Grilles (No Damper), Deduct	-9.38	
For Stainless Steel, Add	117.25	
23 37 13 00-0097 EA 10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	101.63	12.66
For Steel Construction, Deduct	-5.34	
For Flat Frame, Deduct	-0.53	
For Grilles (No Damper), Deduct	-10.69	
For Stainless Steel, Add	133.60	
23 37 13 00-0098 EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	100.54	11.51
For Steel Construction, Deduct	-5.24	
For Flat Frame, Deduct	-0.52	
For Grilles (No Damper), Deduct	-10.47	
For Stainless Steel, Add	130.88	
23 37 13 00-0099 EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	129.00	14.96
For Steel Construction, Deduct	-6.98	
For Flat Frame, Deduct	-0.70	
For Grilles (No Damper), Deduct	-13.96	
For Stainless Steel, Add	174.50	
23 37 13 00-0100 EA 16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	197.60	18.42
For Steel Construction, Deduct	-12.62	
For Flat Frame, Deduct	-1.26	
For Grilles (No Damper), Deduct	-25.23	
For Stainless Steel, Add	315.38	
23 37 13 00-0101 EA 18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	236.66	20.72
For Steel Construction, Deduct	-15.38	
For Flat Frame, Deduct	-1.54	
For Grilles (No Damper), Deduct	-30.76	
For Stainless Steel, Add	384.45	



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
HVAC Air Distribution		23 30	
Air Outlets And Inlets		23 37	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0102 EA 20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	265.69	23.02
For Steel Construction, Deduct	-17.56	
For Flat Frame, Deduct	-1.76	
For Grilles (No Damper), Deduct	-35.12	
For Stainless Steel, Add	439.00	
23 37 13 00-0103 EA 24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	229.42	23.02
For Steel Construction, Deduct	-13.52	
For Flat Frame, Deduct	-1.35	
For Grilles (No Damper), Deduct	-27.05	
For Stainless Steel, Add	338.10	
23 37 13 00-0104 EA 24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	294.86	24.17
For Steel Construction, Deduct	-20.07	
For Flat Frame, Deduct	-2.01	
For Grilles (No Damper), Deduct	-40.14	
For Stainless Steel, Add	501.70	
23 37 13 00-0105 EA 24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	341.36	26.47
For Steel Construction, Deduct	-23.78	
For Flat Frame, Deduct	-2.38	
For Grilles (No Damper), Deduct	-47.55	
For Stainless Steel, Add	594.40	
23 37 13 00-0106 EA 30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	274.83	27.63
For Steel Construction, Deduct	-16.58	
For Flat Frame, Deduct	-1.66	
For Grilles (No Damper), Deduct	-33.16	
For Stainless Steel, Add	414.45	
23 37 13 00-0107 EA 30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	366.20	31.08
For Steel Construction, Deduct	-24.43	
For Flat Frame, Deduct	-2.44	
For Grilles (No Damper), Deduct	-48.86	
For Stainless Steel, Add	610.78	
23 37 13 00-0108 EA 30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	441.39	36.83
For Steel Construction, Deduct	-29.34	
For Flat Frame, Deduct	-2.93	
For Grilles (No Damper), Deduct	-58.68	
For Stainless Steel, Add	733.48	
23 37 13 00-0109 EA 30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	496.46	36.83
For Steel Construction, Deduct	-34.85	
For Flat Frame, Deduct	-3.48	
For Grilles (No Damper), Deduct	-69.69	
For Stainless Steel, Add	871.15	
23 37 13 00-0110 EA 36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	363.33	39.14
For Steel Construction, Deduct	-20.40	
For Flat Frame, Deduct	-2.04	
For Grilles (No Damper), Deduct	-40.79	
For Stainless Steel, Add	509.88	
23 37 13 00-0111 EA 36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	468.04	39.14
For Steel Construction, Deduct	-30.87	
For Flat Frame, Deduct	-3.09	
For Grilles (No Damper), Deduct	-61.73	
For Stainless Steel, Add	771.65	
23 37 13 00-0112 EA 36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	536.95	43.74
For Steel Construction, Deduct	-36.43	
For Flat Frame, Deduct	-3.64	
For Grilles (No Damper), Deduct	-72.86	
For Stainless Steel, Add	910.70	
23 37 13 00-0113 EA 36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	621.91	47.20
For Steel Construction, Deduct	-43.35	
For Flat Frame, Deduct	-4.34	
For Grilles (No Damper), Deduct	-86.71	
For Stainless Steel, Add	1,083.85	
23 37 13 00-0114 EA 36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	652.44	47.20
For Steel Construction, Deduct	-46.41	
For Flat Frame, Deduct	-4.64	
For Grilles (No Damper), Deduct	-92.81	
For Stainless Steel, Add	1,160.18	
23 37 13 00-0115 Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles (23 37 13 00-0068)		
23 37 13 00-0116 EA 6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	45.53	11.23
23 37 13 00-0117 EA 8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	45.53	11.23
23 37 13 00-0118 EA 8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	48.17	11.23
23 37 13 00-0119 EA 8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	49.22	11.23
23 37 13 00-0120 EA 10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	48.17	11.23
23 37 13 00-0121 EA 10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	49.22	11.23
23 37 13 00-0122 EA 10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	60.87	14.73
23 37 13 00-0123 EA 10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	61.93	14.73
23 37 13 00-0124 EA 12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	59.81	14.73
23 37 13 00-0125 EA 12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	61.93	14.73
23 37 13 00-0126 EA 12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	62.98	14.73
23 37 13 00-0127 EA 12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.04	14.73
23 37 13 00-0128 EA 14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	62.45	14.73
23 37 13 00-0129 EA 14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.56	14.73
23 37 13 00-0130 EA 14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.62	14.73
23 37 13 00-0131 EA 14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	70.37	14.73
23 37 13 00-0132 EA 16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.56	14.73

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0133 EA 16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	68.26	14.73
23 37 13 00-0134 EA 16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	70.37	14.73
23 37 13 00-0135 EA 16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	94.20	21.72
23 37 13 00-0136 EA 16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.25	21.72
23 37 13 00-0137 EA 18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	93.14	21.72
23 37 13 00-0138 EA 18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	112.20	25.22
23 37 13 00-0139 EA 20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	92.09	21.72
23 37 13 00-0140 EA 20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	117.47	25.22
23 37 13 00-0141 EA 22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	63.51	14.73
23 37 13 00-0142 EA 22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	93.14	21.72
23 37 13 00-0143 EA 22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	132.30	28.72
23 37 13 00-0144 EA 24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	92.09	21.72
23 37 13 00-0145 EA 24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	94.20	21.72
23 37 13 00-0146 EA 24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	109.03	25.22
For Lay-In Installation, Deduct	-53.26	
23 37 13 00-0147 EA 24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	112.20	25.22
23 37 13 00-0148 EA 24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	125.96	28.72
23 37 13 00-0149 EA 24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	129.13	28.72
23 37 13 00-0150 EA 24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	132.82	28.72
23 37 13 00-0151 EA 24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	139.69	28.72
For Lay-In Installation, Deduct	-60.98	
23 37 13 00-0152 EA 30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	110.61	25.22
23 37 13 00-0153 EA 48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	166.63	31.48
23 37 13 00-0154 EA 48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	264.35	38.47
For Lay-In Installation, Deduct	-87.78	
23 37 13 00-0155 Supply Registers and Grilles (23 37 13)		
23 37 13 00-0156 Adjustable Curved Blade Register (23 37 13 00-0155)		
Note: Ceiling mount aluminum construction four way pattern flush frame.		
23 37 13 00-0157 EA 6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	67.45	9.21
For Steel Construction, Deduct	-4.77	
For Lay In Frame, Deduct	-7.95	
For Three Way Pattern, Deduct	-3.18	
For Two Way Pattern, Deduct	-2.54	
For One Way Pattern, Deduct	-2.54	
For Grille (No Damper), Deduct	-4.77	
For Stainless Steel, Add	79.45	
23 37 13 00-0158 EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	69.32	9.21
For Steel Construction, Deduct	-5.05	
For Lay In Frame, Deduct	-8.41	
For Three Way Pattern, Deduct	-3.37	
For Two Way Pattern, Deduct	-2.69	
For One Way Pattern, Deduct	-2.69	
For Grille (No Damper), Deduct	-5.05	
For Stainless Steel, Add	84.13	
23 37 13 00-0159 EA 12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	80.08	12.66
For Steel Construction, Deduct	-4.77	
For Lay In Frame, Deduct	-7.95	
For Three Way Pattern, Deduct	-3.18	
For Two Way Pattern, Deduct	-2.54	
For One Way Pattern, Deduct	-2.54	
For Grille (No Damper), Deduct	-4.77	
For Stainless Steel, Add	79.45	
23 37 13 00-0160 EA 10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	86.94	11.51
For Steel Construction, Deduct	-5.80	
For Lay In Frame, Deduct	-9.66	
For Three Way Pattern, Deduct	-3.86	
For Two Way Pattern, Deduct	-3.09	
For One Way Pattern, Deduct	-3.09	
For Grille (No Damper), Deduct	-5.80	
For Stainless Steel, Add	96.60	
23 37 13 00-0161 EA 12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	104.81	14.96
For Steel Construction, Deduct	-6.92	
For Lay In Frame, Deduct	-11.53	
For Three Way Pattern, Deduct	-4.61	
For Two Way Pattern, Deduct	-3.69	
For One Way Pattern, Deduct	-3.69	
For Grille (No Damper), Deduct	-6.92	
For Stainless Steel, Add	115.30	
23 37 13 00-0162 EA 14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	128.79	17.27
For Steel Construction, Deduct	-8.60	
For Lay In Frame, Deduct	-14.34	
For Three Way Pattern, Deduct	-5.73	
For Two Way Pattern, Deduct	-4.59	
For One Way Pattern, Deduct	-4.59	
For Grille (No Damper), Deduct	-8.60	
For Stainless Steel, Add	143.35	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets And Inlets

23 37**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0163 EA 16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	128.79	17.27
For Steel Construction, Deduct	-8.60	
For Lay In Frame, Deduct	-14.34	
For Three Way Pattern, Deduct	-5.73	
For Two Way Pattern, Deduct	-4.59	
For One Way Pattern, Deduct	-4.59	
For Grille (No Damper), Deduct	-8.60	
For Stainless Steel, Add	143.35	
23 37 13 00-0164 EA 18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	159.50	23.02
For Steel Construction, Deduct	-10.47	
For Lay In Frame, Deduct	-17.45	
For Three Way Pattern, Deduct	-6.98	
For Two Way Pattern, Deduct	-5.58	
For One Way Pattern, Deduct	-5.58	
For Grille (No Damper), Deduct	-10.47	
For Stainless Steel, Add	174.50	
23 37 13 00-0165 EA 24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	199.51	24.17
For Steel Construction, Deduct	-15.80	
For Lay In Frame, Deduct	-26.33	
For Three Way Pattern, Deduct	-10.53	
For Two Way Pattern, Deduct	-8.43	
For One Way Pattern, Deduct	-8.43	
For Grille (No Damper), Deduct	-15.80	
For Stainless Steel, Add	263.33	
23 37 13 00-0166 EA 30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	299.87	48.80
For Steel Construction, Deduct	-30.34	
For Lay In Frame, Deduct	-50.56	
For Three Way Pattern, Deduct	-20.22	
For Two Way Pattern, Deduct	-16.18	
For One Way Pattern, Deduct	-16.18	
For Grille (No Damper), Deduct	-30.34	
For Stainless Steel, Add	505.60	
23 37 13 00-0167 Removable-Reversible Core Registers (23 37 13 00-0155)		
Note: Double deflection radiused frame aluminum construction.		
23 37 13 00-0168 EA 6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	75.56	9.21
For Steel Construction, Deduct	-3.99	
For Flat Frame, Deduct	-3.99	
For Grille (No Damper), Deduct	-11.97	
For Stainless Steel, Add	99.73	
23 37 13 00-0169 EA 8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	91.76	9.21
For Steel Construction, Deduct	-5.61	
For Flat Frame, Deduct	-5.61	
For Grille (No Damper), Deduct	-16.83	
For Stainless Steel, Add	140.23	
23 37 13 00-0170 EA 12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	118.10	12.66
For Steel Construction, Deduct	-6.98	
For Flat Frame, Deduct	-6.98	
For Grille (No Damper), Deduct	-20.94	
For Stainless Steel, Add	174.50	
23 37 13 00-0171 EA 10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	119.35	12.66
For Steel Construction, Deduct	-7.11	
For Flat Frame, Deduct	-7.11	
For Grille (No Damper), Deduct	-21.32	
For Stainless Steel, Add	177.63	
23 37 13 00-0172 EA 12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	150.93	14.96
For Steel Construction, Deduct	-9.22	
For Flat Frame, Deduct	-9.22	
For Grille (No Damper), Deduct	-27.67	
For Stainless Steel, Add	230.60	
23 37 13 00-0173 EA 14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	209.81	18.42
For Steel Construction, Deduct	-13.84	
For Flat Frame, Deduct	-13.84	
For Grille (No Damper), Deduct	-41.51	
For Stainless Steel, Add	345.90	
23 37 13 00-0174 EA 16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	232.24	17.27
For Steel Construction, Deduct	-16.08	
For Flat Frame, Deduct	-16.08	
For Grille (No Damper), Deduct	-48.24	
For Stainless Steel, Add	401.98	
23 37 13 00-0175 EA 18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	281.66	23.02
For Steel Construction, Deduct	-19.20	
For Flat Frame, Deduct	-19.20	
For Grille (No Damper), Deduct	-57.59	
For Stainless Steel, Add	479.90	
23 37 13 00-0176 EA 24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	347.21	23.02
For Steel Construction, Deduct	-25.30	
For Flat Frame, Deduct	-25.30	
For Grille (No Damper), Deduct	-75.91	
For Stainless Steel, Add	632.58	

23 37 13 00-0177 Adjustable Shutter Blade Registers (23 37 13 00-0155)

Note: Double deflection flat frame aluminum construction.

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0178 EA 6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	108.38	9.21
For Steel Construction, Deduct	-7.27	
For Single Deflection, Deduct	-14.54	
For Grille (No Damper), Deduct	-10.91	
For Stainless Steel, Add	181.78	
23 37 13 00-0179 EA 8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	122.92	9.21
For Steel Construction, Deduct	-8.73	
For Single Deflection, Deduct	-17.45	
For Grille (No Damper), Deduct	-13.09	
For Stainless Steel, Add	218.13	
23 37 13 00-0180 EA 12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	135.55	12.66
For Steel Construction, Deduct	-8.73	
For Single Deflection, Deduct	-17.45	
For Grille (No Damper), Deduct	-13.09	
For Stainless Steel, Add	218.13	
23 37 13 00-0181 EA 10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	139.71	11.51
For Steel Construction, Deduct	-9.14	
For Single Deflection, Deduct	-18.28	
For Grille (No Damper), Deduct	-13.71	
For Stainless Steel, Add	228.53	
23 37 13 00-0182 EA 12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	170.87	14.96
For Steel Construction, Deduct	-11.22	
For Single Deflection, Deduct	-22.44	
For Grille (No Damper), Deduct	-16.83	
For Stainless Steel, Add	280.45	
23 37 13 00-0183 EA 14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	225.18	17.27
For Steel Construction, Deduct	-15.37	
For Single Deflection, Deduct	-30.75	
For Grille (No Damper), Deduct	-23.06	
For Stainless Steel, Add	384.33	
23 37 13 00-0184 EA 16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	260.50	18.42
For Steel Construction, Deduct	-18.91	
For Single Deflection, Deduct	-37.81	
For Grille (No Damper), Deduct	-28.36	
For Stainless Steel, Add	472.63	
23 37 13 00-0185 EA 18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	322.37	23.02
For Steel Construction, Deduct	-23.27	
For Single Deflection, Deduct	-46.53	
For Grille (No Damper), Deduct	-34.90	
For Stainless Steel, Add	581.68	
23 37 13 00-0186 EA 24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	432.80	24.17
For Steel Construction, Deduct	-33.86	
For Single Deflection, Deduct	-67.72	
For Grille (No Damper), Deduct	-50.79	
For Stainless Steel, Add	846.55	
23 37 13 00-0187 Air Conditioning And Ventilation (23 37 13 00-0155)		
23 37 13 00-0188 EA 10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	61.66	24.17
For Stainless Steel, Add	33.40	
23 37 13 00-0189 EA 18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	98.67	35.97
For Stainless Steel, Add	66.80	
23 37 13 00-0190 EA 30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	145.25	50.36
For Stainless Steel, Add	111.33	
23 37 13 00-0191 EA 48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	285.09	69.06
For Stainless Steel, Add	367.38	
23 37 13 00-0192 Security Supply Or Return Grille (23 37 13 00-0155)		
Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.		
23 37 13 00-0193 EA 8" x 4" Steel Security Grille	152.81	17.27
For Anchoring Tabs, Add	11.83	
For Angle Iron Frame, Add	21.20	
For Rear Operated Opposed Blade Damper, Add	44.85	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	29.57	
For Stainless Steel, Add	153.76	
23 37 13 00-0194 EA 8" x 6" Steel Security Grille	168.31	17.84
For Anchoring Tabs, Add	13.26	
For Angle Iron Frame, Add	23.46	
For Rear Operated Opposed Blade Damper, Add	49.99	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	33.16	
For Stainless Steel, Add	172.41	
23 37 13 00-0195 EA 8" x 8" Steel Security Grille	192.62	20.15
For Anchoring Tabs, Add	15.23	
For Angle Iron Frame, Add	26.88	
For Rear Operated Opposed Blade Damper, Add	57.34	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	38.08	
For Stainless Steel, Add	198.03	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets And Inlets

23 37**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0196 EA 10" x 4" Steel Security Grille.....	169.97	19.57
For Anchoring Tabs, Add	13.08	
For Angle Iron Frame, Add	23.54	
For Rear Operated Opposed Blade Damper, Add	49.70	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	32.71	
For Stainless Steel, Add	170.07	
23 37 13 00-0197 EA 10" x 6" Steel Security Grille.....	181.24	20.72
For Anchoring Tabs, Add	13.98	
For Angle Iron Frame, Add	25.11	
For Rear Operated Opposed Blade Damper, Add	53.07	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	34.95	
For Stainless Steel, Add	181.73	
23 37 13 00-0198 EA 10" x 8" Steel Security Grille.....	206.19	22.45
For Anchoring Tabs, Add	16.13	
For Angle Iron Frame, Add	28.68	
For Rear Operated Opposed Blade Damper, Add	60.94	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	40.32	
For Stainless Steel, Add	209.68	
23 37 13 00-0199 EA 10" x 10" Steel Security Grille.....	229.35	24.18
For Anchoring Tabs, Add	18.10	
For Angle Iron Frame, Add	31.99	
For Rear Operated Opposed Blade Damper, Add	68.19	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	45.25	
For Stainless Steel, Add	235.30	
23 37 13 00-0200 EA 12" x 4" Steel Security Grille.....	179.95	21.87
For Anchoring Tabs, Add	13.62	
For Angle Iron Frame, Add	24.81	
For Rear Operated Opposed Blade Damper, Add	52.05	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	34.05	
For Stainless Steel, Add	177.06	
23 37 13 00-0201 EA 12" x 6" Steel Security Grille.....	200.68	24.18
For Anchoring Tabs, Add	15.23	
For Angle Iron Frame, Add	27.68	
For Rear Operated Opposed Blade Damper, Add	58.15	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	38.08	
For Stainless Steel, Add	198.03	
23 37 13 00-0202 EA 12" x 8" Steel Security Grille.....	227.44	25.90
For Anchoring Tabs, Add	17.56	
For Angle Iron Frame, Add	31.53	
For Rear Operated Opposed Blade Damper, Add	66.65	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	43.91	
For Stainless Steel, Add	228.32	
23 37 13 00-0203 EA 12" x 10" Steel Security Grille.....	247.02	27.63
For Anchoring Tabs, Add	19.18	
For Angle Iron Frame, Add	34.29	
For Rear Operated Opposed Blade Damper, Add	72.64	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	47.94	
For Stainless Steel, Add	249.29	
23 37 13 00-0204 EA 12" x 12" Steel Security Grille.....	271.97	29.36
For Anchoring Tabs, Add	21.33	
For Angle Iron Frame, Add	37.86	
For Rear Operated Opposed Blade Damper, Add	80.51	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	53.32	
For Stainless Steel, Add	277.24	
23 37 13 00-0205 EA 14" x 4" Steel Security Grille.....	192.36	23.60
For Anchoring Tabs, Add	14.52	
For Angle Iron Frame, Add	26.49	
For Rear Operated Opposed Blade Damper, Add	55.53	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	36.29	
For Stainless Steel, Add	188.71	
23 37 13 00-0206 EA 14" x 6" Steel Security Grille.....	215.52	25.33
For Anchoring Tabs, Add	16.49	
For Angle Iron Frame, Add	29.80	
For Rear Operated Opposed Blade Damper, Add	62.77	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	41.22	
For Stainless Steel, Add	214.33	
23 37 13 00-0207 EA 14" x 8" Steel Security Grille.....	239.85	27.63
For Anchoring Tabs, Add	18.46	
For Angle Iron Frame, Add	33.21	
For Rear Operated Opposed Blade Damper, Add	70.13	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	46.15	
For Stainless Steel, Add	239.97	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0208 EA 14" x 10" Steel Security Grille	269.55	29.93
For Anchoring Tabs, Add	20.97	
For Angle Iron Frame, Add	37.44	
For Rear Operated Opposed Blade Damper, Add	79.38	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	52.42	
For Stainless Steel, Add	272.58	
23 37 13 00-0209 EA 14" x 12" Steel Security Grille	296.80	32.82
For Anchoring Tabs, Add	23.12	
For Angle Iron Frame, Add	41.24	
For Rear Operated Opposed Blade Damper, Add	87.48	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	57.80	
For Stainless Steel, Add	300.53	
23 37 13 00-0210 EA 14" x 14" Steel Security Grille	319.32	35.12
For Anchoring Tabs, Add	24.91	
For Angle Iron Frame, Add	44.39	
For Rear Operated Opposed Blade Damper, Add	94.21	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	62.28	
For Stainless Steel, Add	323.83	
23 37 13 00-0211 EA 16" x 6" Steel Security Grille	230.89	27.63
For Anchoring Tabs, Add	17.56	
For Angle Iron Frame, Add	31.87	
For Rear Operated Opposed Blade Damper, Add	67.00	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	43.91	
For Stainless Steel, Add	228.32	
23 37 13 00-0212 EA 16" x 8" Steel Security Grille	262.38	29.93
For Anchoring Tabs, Add	20.25	
For Angle Iron Frame, Add	36.36	
For Rear Operated Opposed Blade Damper, Add	76.87	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	50.63	
For Stainless Steel, Add	263.26	
23 37 13 00-0213 EA 16" x 10" Steel Security Grille	283.11	32.23
For Anchoring Tabs, Add	21.86	
For Angle Iron Frame, Add	39.24	
For Rear Operated Opposed Blade Damper, Add	82.97	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	54.66	
For Stainless Steel, Add	284.23	
23 37 13 00-0214 EA 16" x 12" Steel Security Grille	317.02	33.96
For Anchoring Tabs, Add	24.91	
For Angle Iron Frame, Add	44.16	
For Rear Operated Opposed Blade Damper, Add	93.98	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	62.28	
For Stainless Steel, Add	323.83	
23 37 13 00-0215 EA 16" x 14" Steel Security Grille	335.97	36.26
For Anchoring Tabs, Add	26.34	
For Angle Iron Frame, Add	46.77	
For Rear Operated Opposed Blade Damper, Add	99.46	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	65.86	
For Stainless Steel, Add	342.47	
23 37 13 00-0216 EA 16" x 16" Steel Security Grille	363.87	38.57
For Anchoring Tabs, Add	28.67	
For Angle Iron Frame, Add	50.72	
For Rear Operated Opposed Blade Damper, Add	108.07	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	71.69	
For Stainless Steel, Add	372.76	
23 37 13 00-0217 EA 18" x 6" Steel Security Grille	246.76	31.09
For Anchoring Tabs, Add	18.46	
For Angle Iron Frame, Add	33.91	
For Rear Operated Opposed Blade Damper, Add	70.82	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	46.15	
For Stainless Steel, Add	239.97	
23 37 13 00-0218 EA 18" x 8" Steel Security Grille	280.03	33.39
For Anchoring Tabs, Add	21.33	
For Angle Iron Frame, Add	38.67	
For Rear Operated Opposed Blade Damper, Add	81.32	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	53.32	
For Stainless Steel, Add	277.24	
23 37 13 00-0219 EA 18" x 10" Steel Security Grille	306.15	35.69
For Anchoring Tabs, Add	23.48	
For Angle Iron Frame, Add	42.35	
For Rear Operated Opposed Blade Damper, Add	89.31	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	58.69	
For Stainless Steel, Add	305.20	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets And Inlets

23 37**23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0220	EA		18" x 12" Steel Security Grille	335.84	37.99
			For Anchoring Tabs, Add	25.99	
			For Angle Iron Frame, Add	46.58	
			For Rear Operated Opposed Blade Damper, Add	98.55	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	64.97	
			For Stainless Steel, Add	337.82	
23 37 13 00-0221	EA		18" x 14" Steel Security Grille	356.20	37.42
			For Anchoring Tabs, Add	28.14	
			For Angle Iron Frame, Add	49.69	
			For Rear Operated Opposed Blade Damper, Add	105.96	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	70.34	
			For Stainless Steel, Add	365.77	
23 37 13 00-0222	EA		18" x 16" Steel Security Grille	388.32	39.15
			For Anchoring Tabs, Add	31.00	
			For Angle Iron Frame, Add	54.33	
			For Rear Operated Opposed Blade Damper, Add	116.34	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	77.51	
			For Stainless Steel, Add	403.05	
23 37 13 00-0223	EA		18" x 18" Steel Security Grille	415.07	40.87
			For Anchoring Tabs, Add	33.33	
			For Angle Iron Frame, Add	58.17	
			For Rear Operated Opposed Blade Damper, Add	124.84	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	83.33	
			For Stainless Steel, Add	433.33	
23 37 13 00-0224	EA		20" x 6" Steel Security Grille	265.05	33.96
			For Anchoring Tabs, Add	19.71	
			For Angle Iron Frame, Add	36.36	
			For Rear Operated Opposed Blade Damper, Add	75.79	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	49.28	
			For Stainless Steel, Add	256.27	
23 37 13 00-0225	EA		20" x 8" Steel Security Grille	298.85	37.42
			For Anchoring Tabs, Add	22.40	
			For Angle Iron Frame, Add	41.09	
			For Rear Operated Opposed Blade Damper, Add	85.89	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	56.00	
			For Stainless Steel, Add	291.21	
23 37 13 00-0226	EA		20" x 10" Steel Security Grille	327.38	39.15
			For Anchoring Tabs, Add	24.91	
			For Angle Iron Frame, Add	45.19	
			For Rear Operated Opposed Blade Damper, Add	95.01	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	62.28	
			For Stainless Steel, Add	323.83	
23 37 13 00-0227	EA		20" x 12" Steel Security Grille	358.88	41.45
			For Anchoring Tabs, Add	27.60	
			For Angle Iron Frame, Add	49.69	
			For Rear Operated Opposed Blade Damper, Add	104.89	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	69.00	
			For Stainless Steel, Add	358.79	
23 37 13 00-0228	EA		20" x 14" Steel Security Grille	392.79	43.18
			For Anchoring Tabs, Add	30.65	
			For Angle Iron Frame, Add	54.60	
			For Rear Operated Opposed Blade Damper, Add	115.89	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	76.61	
			For Stainless Steel, Add	398.39	
23 37 13 00-0229	EA		20" x 16" Steel Security Grille	423.13	44.90
			For Anchoring Tabs, Add	33.33	
			For Angle Iron Frame, Add	58.98	
			For Rear Operated Opposed Blade Damper, Add	125.65	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	83.33	
			For Stainless Steel, Add	433.33	
23 37 13 00-0230	EA		20" x 18" Steel Security Grille	451.67	46.63
			For Anchoring Tabs, Add	35.84	
			For Angle Iron Frame, Add	63.09	
			For Rear Operated Opposed Blade Damper, Add	134.77	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	89.61	
			For Stainless Steel, Add	465.95	
23 37 13 00-0231	EA		20" x 20" Steel Security Grille	485.59	48.35
			For Anchoring Tabs, Add	38.89	
			For Angle Iron Frame, Add	68.00	
			For Rear Operated Opposed Blade Damper, Add	145.78	
			For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
			For 1" x 1" Square Holes On Face, Add	97.22	
			For Stainless Steel, Add	505.56	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0232 EA 24" x 6" Steel Security Grille	294.62	37.99
For Anchoring Tabs, Add	21.86	
For Angle Iron Frame, Add	40.39	
For Rear Operated Opposed Blade Damper, Add	84.12	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	54.66	
For Stainless Steel, Add	284.23	
23 37 13 00-0233 EA 24" x 8" Steel Security Grille	331.98	41.45
For Anchoring Tabs, Add	24.91	
For Angle Iron Frame, Add	45.65	
For Rear Operated Opposed Blade Damper, Add	95.47	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	62.28	
For Stainless Steel, Add	323.83	
23 37 13 00-0234 EA 24" x 10" Steel Security Grille	361.18	42.60
For Anchoring Tabs, Add	27.60	
For Angle Iron Frame, Add	49.92	
For Rear Operated Opposed Blade Damper, Add	105.12	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	69.00	
For Stainless Steel, Add	358.79	
23 37 13 00-0235 EA 24" x 12" Steel Security Grille	404.43	47.20
For Anchoring Tabs, Add	31.00	
For Angle Iron Frame, Add	55.95	
For Rear Operated Opposed Blade Damper, Add	117.95	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	77.51	
For Stainless Steel, Add	403.05	
23 37 13 00-0236 EA 24" x 14" Steel Security Grille	434.77	48.93
For Anchoring Tabs, Add	33.69	
For Angle Iron Frame, Add	60.32	
For Rear Operated Opposed Blade Damper, Add	127.71	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	84.23	
For Stainless Steel, Add	438.00	
23 37 13 00-0237 EA 24" x 16" Steel Security Grille	472.27	50.66
For Anchoring Tabs, Add	37.10	
For Angle Iron Frame, Add	65.78	
For Rear Operated Opposed Blade Damper, Add	139.97	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	92.74	
For Stainless Steel, Add	482.26	
23 37 13 00-0238 EA 24" x 18" Steel Security Grille	515.14	52.39
For Anchoring Tabs, Add	41.04	
For Angle Iron Frame, Add	72.03	
For Rear Operated Opposed Blade Damper, Add	154.11	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	102.60	
For Stainless Steel, Add	533.51	
23 37 13 00-0239 EA 24" x 20" Steel Security Grille	545.48	54.11
For Anchoring Tabs, Add	43.73	
For Angle Iron Frame, Add	76.41	
For Rear Operated Opposed Blade Damper, Add	163.87	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	109.32	
For Stainless Steel, Add	568.46	
23 37 13 00-0240 EA 24" x 24" Steel Security Grille	609.72	57.56
For Anchoring Tabs, Add	49.46	
For Angle Iron Frame, Add	85.70	
For Rear Operated Opposed Blade Damper, Add	184.63	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	123.66	
For Stainless Steel, Add	643.01	
23 37 13 00-0241 Square Wall Return Air And Exhaust Grilles (23 37 13 00-0155)		
Note: Egg crate design aluminum construction.		
23 37 13 00-0242 EA 8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	65.59	28.79
23 37 13 00-0243 EA 12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	68.06	28.79
23 37 13 00-0244 EA 18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	101.79	43.18
23 37 13 00-0245 EA 24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	114.14	43.18
23 37 13 00-0246 EA 28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	170.71	57.56
23 37 13 00-0247 EA 36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	245.36	57.56
23 37 13 00-0248 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles (23 37 13 00-0155)		
Note: Aluminum construction.		
23 37 13 00-0249 EA 12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	168.33	20.72
23 37 13 00-0250 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	187.03	20.72
23 37 13 00-0251 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	222.99	23.03
23 37 13 00-0252 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	256.20	23.03
23 37 13 00-0253 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	340.52	71.95



Heating, Ventilating, And Air-Conditioning (HVAC)			23
HVAC Air Distribution			23 30
Air Outlets And Inlets			23 37

23

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0254		Square Ceiling Return Air And Exhaust Grilles (23 37 13 00-0155) Note: Egg crate design, plastic construction.		
23 37 13 00-0255	EA	24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	37.34	13.78
23 37 13 00-0256	EA	24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	51.00	13.88
23 37 13 00-0257		Door Grilles Sight Proof Inverted Vee Cross Section (23 37 13 00-0155) Note: Painted steel louvers and frame.		
23 37 13 00-0258	EA	12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	97.27	20.72
23 37 13 00-0259	EA	12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	128.86	20.72
23 37 13 00-0260	EA	18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	151.71	21.87
23 37 13 00-0261	EA	24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	195.34	26.13
23 37 13 00-0262	EA	24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	219.53	48.01
23 37 13 00-0263		Stainless Steel Devices (23 37 13 00-0155)		
23 37 13 00-0264		304 Stainless Steel, Louvered Partition/Door Grilles (23 37 13 00-0263)		
23 37 13 00-0265	SF	Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille.....	169.52	17.96
		For 316 Stainless Steel, Add	27.92	
23 37 13 00-0266	SF	>4 SF, 304 Stainless Steel, Louvered Partition/Door Grille	144.05	17.96
		For 316 Stainless Steel, Add	22.82	
23 37 13 00-0267		304 Stainless Steel, Single Deflection Supply Grilles (23 37 13 00-0263)		
23 37 13 00-0268	SF	Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille.....	129.93	17.96
		For 316 Stainless Steel, Add	20.00	
23 37 13 00-0269	SF	>4 SF, 304 Stainless Steel, Single Deflection Supply Grille	111.41	17.96
		For 316 Stainless Steel, Add	16.30	
23 37 13 00-0270		304 Stainless Steel, Double Deflection Supply Grilles (23 37 13 00-0263)		
23 37 13 00-0271	SF	Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille	187.23	17.96
		For 316 Stainless Steel, Add	31.46	
23 37 13 00-0272	SF	>4 SF, 304 Stainless Steel, Double Deflection Supply Grille	160.49	17.96
		For 316 Stainless Steel, Add	26.11	
23 37 13 00-0273		304 Stainless Steel Return Grilles (23 37 13 00-0263)		
23 37 13 00-0274	SF	Up To 4 SF, 304 Stainless Steel Return Grille.....	129.93	17.96
		For 316 Stainless Steel, Add	20.00	
23 37 13 00-0275	SF	>4 SF, 304 Stainless Steel Return Grille	111.41	17.96
		For 316 Stainless Steel, Add	16.30	
23 37 13 00-0276		304 Stainless Steel, Louvered Supply/Return Grilles (23 37 13 00-0263)		
23 37 13 00-0277	SF	Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	129.93	17.96
		For 316 Stainless Steel, Add	20.00	
23 37 13 00-0278	SF	>4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	111.41	17.96
		For 316 Stainless Steel, Add	16.30	
23 37 13 00-0279		304 Stainless Steel, Perforated Return Grilles (23 37 13 00-0263)		
23 37 13 00-0280	SF	Up To 4 SF, 304 Stainless Steel, Perforated Return Grille	129.93	17.96
		For 316 Stainless Steel, Add	20.00	
23 37 13 00-0281	SF	>4 SF, 304 Stainless Steel, Perforated Return Grille.....	106.32	17.96
		For 316 Stainless Steel, Add	15.28	
23 37 13 00-0282		304 Stainless Steel, Perforated Supply Grilles (23 37 13 00-0263)		
23 37 13 00-0283	SF	Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille.....	155.98	17.96
		For 316 Stainless Steel, Add	25.21	
23 37 13 00-0284	SF	>4 SF, 304 Stainless Steel, Perforated Supply Grille	109.03	17.96
		For 316 Stainless Steel, Add	15.82	
23 37 13 00-0285		304 Stainless Steel, Door Grilles (23 37 13 00-0263)		
23 37 13 00-0286	SF	Up To 4 SF, 304 Stainless Steel, Door Grille.....	229.94	17.96
		For 316 Stainless Steel, Add	40.00	
23 37 13 00-0287	SF	>4 SF, 304 Stainless Steel, Door Grille	192.91	17.96
		For 316 Stainless Steel, Add	32.60	
23 37 13 00-0288		304 Stainless Steel, Linear Bar Grilles (23 37 13 00-0263)		
23 37 13 00-0289	SF	Up To 4 SF, 304 Stainless Steel, Linear Bar Grille.....	292.09	17.96
		For 316 Stainless Steel, Add	52.43	
23 37 13 00-0290	SF	>4 SF, 304 Stainless Steel, Linear Bar Grille.....	251.00	17.96
		For 316 Stainless Steel, Add	44.21	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0291 304 Stainless Steel, Hinged Filter Grilles (23 37 13 00-0263)		
23 37 13 00-0292 SF Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille	216.40	17.96
For 316 Stainless Steel, Add	37.29	
23 37 13 00-0293 SF >4 SF, 304 Stainless Steel, Hinged Filter Grille	151.58	17.96
For 316 Stainless Steel, Add	24.33	
23 37 13 00-0294 304 Stainless Steel, Opposed Blade Dampers Grilles (23 37 13 00-0263)		
23 37 13 00-0295 SF Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille	119.52	17.96
For 316 Stainless Steel, Add	17.92	
23 37 13 00-0296 SF Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF	92.55	17.96
For 316 Stainless Steel, Add	12.52	
23 37 13 00-0297 304 Stainless Steel, Plaster Frames Replacement (23 37 13 00-0263)		
Note: For frequent replacement.		
23 37 13 00-0298 SF To 4 SF, 304 Stainless Steel, Plaster Frames Replacement	94.52	17.96
For 316 Stainless Steel, Add	12.92	
23 37 13 00-0299 SF >4 SF, 304 Stainless Steel, Plaster Frames Replacement	53.19	17.96
For 316 Stainless Steel, Add	4.65	
23 37 13 00-0300 304 Stainless Steel, Modular Louvered Ceiling Diffusers (23 37 13 00-0263)		
23 37 13 00-0301 SF Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser	213.27	17.96
For 316 Stainless Steel, Add	36.67	
23 37 13 00-0302 SF >4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser	168.25	17.96
For 316 Stainless Steel, Add	27.66	
23 37 13 00-0303 304 Stainless Steel, Latticed Supply/Return Grilles (23 37 13 00-0263)		
23 37 13 00-0304 SF Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille	78.89	17.96
For 316 Stainless Steel, Add	9.79	
23 37 13 00-0305 SF >4 SF, 304 Stainless Steel, Latticed Supply/Return Grille	78.89	17.96
For 316 Stainless Steel, Add	9.79	
23 37 13 00-0306 Security Registers And Grilles (23 37 13)		
23 37 13 00-0307 Maximum Security Steel Supply / Return Registers (23 37 13 00-0306)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 00-0308 EA 6" x 6" Maximum Security Supply/ Return Register	150.99	12.89
23 37 13 00-0309 EA 9" x 9" Maximum Security Supply/ Return Register	213.32	15.34
23 37 13 00-0310 EA 12" x 6" Maximum Security Supply/ Return Register	201.49	16.10
23 37 13 00-0311 EA 12" x 8" Maximum Security Supply/ Return Register	232.12	18.59
23 37 13 00-0312 EA 10" x 10" Maximum Security Supply/ Return Register	216.54	16.10
23 37 13 00-0313 EA 14" x 12" Maximum Security Supply/ Return Register	299.29	22.65
23 37 13 00-0314 EA 14" x 14" Maximum Security Supply/ Return Register	337.44	24.39
23 37 13 00-0315 EA 18" x 18" Maximum Security Supply/ Return Register	447.06	28.99
23 37 13 00-0316 EA 24" x 24" Maximum Security Supply/ Return Registers	634.07	37.05
23 37 13 00-0317 Staff Security Steel Supply Registers (23 37 13 00-0306)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 00-0318 EA 6" x 6" Staff Security Supply Register	117.88	12.89
23 37 13 00-0319 EA 9" x 9" Staff Security Supply Register	150.12	15.34
23 37 13 00-0320 EA 12" x 12" Staff Security Supply Register	190.53	20.92
23 37 13 00-0321 EA 15" x 15" Staff Security Supply Register	265.44	24.16
23 37 13 00-0322 EA 21" x 21" Staff Security Supply Register	372.48	32.23
23 37 13 00-0323 EA 24" x 24" Staff Security Supply Register	445.98	37.05
23 37 13 00-0324 Staff Security Steel Return Registers (23 37 13 00-0306)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 00-0325 EA 10" x 4" 12 Gage Flat Steel Plate Staff Security Return Register	146.68	13.94
Note: Perforated with square holes.		
23 37 13 00-0326 EA 6" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	132.93	12.89
Note: Perforated with square holes.		
23 37 13 00-0327 EA 10" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	158.83	14.52
Note: Perforated with square holes.		
23 37 13 00-0328 EA 12" x 5" 12 Gage Flat Steel Plate Staff Security Return Register	163.77	15.69
Note: Perforated with square holes.		
23 37 13 00-0329 EA 12" x 8" 12 Gage Flat Steel Plate Staff Security Return Register	202.03	18.59
Note: Perforated with square holes.		
23 37 13 00-0330 EA 16" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	211.06	18.59
Note: Perforated with square holes.		
23 37 13 00-0331 EA 16" x 8" 12 Gage Flat Steel Plate Staff Security Return Register	233.94	19.29
Note: Perforated with square holes.		
23 37 13 00-0332 EA 12" x 12" 12 Gage Flat Steel Plate Staff Security Return Register	235.67	20.92
Note: Perforated with square holes.		
23 37 13 00-0333 EA 30" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	302.52	23.47
Note: Perforated with square holes.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Outlets And Inlets

23 37**23**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 00-0334	EA	14" x 12" 12 Gage Flat Steel Plate Staff Security Return Register	261.67		22.65
Note: Perforated with square holes.					
23 37 13 00-0335	EA	28" x 8" 12 Gage Flat Steel Plate Staff Security Return Register	322.39		24.16
Note: Perforated with square holes.					
23 37 13 00-0336	EA	18" x 12" 12 Gage Flat Steel Plate Staff Security Return Register	299.82		23.93
Note: Perforated with square holes.					
23 37 13 00-0337 Maximum Security Steel Grills (23 37 13 00-0306)					
Note: Includes damper as manufactured by Titus or equal.					
23 37 13 00-0338	EA	10" x 4" Maximum Security Grill.....	128.63		13.94
23 37 13 00-0339	EA	6" x 6" Maximum Security Grill.....	117.88		12.89
23 37 13 00-0340	EA	10" x 6" Maximum Security Grill.....	137.77		14.52
23 37 13 00-0341	EA	12" x 5" Maximum Security Grill.....	144.21		15.69
23 37 13 00-0342	EA	12" x 8" Maximum Security Grill.....	170.43		18.59
23 37 13 00-0343	EA	16" x 8" Maximum Security Grill.....	194.82		19.29
23 37 13 00-0344	EA	12" x 12" Maximum Security Grill.....	196.55		20.92
23 37 13 00-0345	EA	14" x 12" Maximum Security Grill.....	213.52		22.65
23 37 13 00-0346	EA	30" x 6" Maximum Security Grill.....	257.38		23.47
23 37 13 00-0347	EA	28" x 8" Maximum Security Grill.....	271.24		24.16
23 37 13 00-0348	EA	18" x 12" Maximum Security Grill.....	250.17		23.93
23 37 13 00-0349 Removal And Reinstallation Of Distribution Devices (23 37 13)					
Note: Includes storage and cleaning. Excludes ductwork.					
23 37 13 00-0350	EA	Removal And Reinstallation Of Variable Air Volume Terminal Unit.....	215.84		
23 37 13 00-0351	EA	Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit	238.06		
23 37 13 00-0352	EA	Removal And Reinstallation Of Lay-in Diffuser/Register/Grille	35.68		
23 37 13 00-0353	EA	Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille.....	48.32		
23 38 Ventilation Hoods (23 30)					
23 38 13 Commercial-Kitchen Hoods (23 38)					
23 38 13 16 Standard Commercial-Kitchen Hoods (23 38 13)					
23 38 13 16-0001 Commercial Kitchen Hood Ventilation System (23 38 13 16)					
Note: Excludes fire suppression. See CSI section 21 24 16 00-0000 for fire suppression system, 23 31 13 23-0000 for duct, 23 34 16 00-0108 for exhaust and supply fans.					
23 38 13 16-0002 Dry Filter Exhaust Hoods (23 38 13 16-0001)					
Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.					
23 38 13 16-0003	EA	8' Long x 60" Deep Dry Filter Exhaust Hood.....	5,296.77		889.43
23 38 13 16-0004	EA	8'-6" Long x 60" Deep Dry Filter Exhaust Hood	5,541.91		945.02
23 38 13 16-0005	EA	9' Long x 60" Deep Dry Filter Exhaust Hood.....	6,114.38		1,000.60
23 38 13 16-0006	EA	9'-6" Long x 60" Deep Dry Filter Exhaust Hood	6,331.00		1,056.20
23 38 13 16-0007	EA	10' Long x 60" Deep Dry Filter Exhaust Hood.....	6,580.18		1,111.78
23 38 13 16-0008	EA	10'-6" Long x 60" Deep Dry Filter Exhaust Hood	6,838.90		1,167.38
23 38 13 16-0009	EA	11' Long x 60" Deep Dry Filter Exhaust Hood.....	7,088.73		1,222.96
23 38 13 16-0010	EA	11'-6" Long x 60" Deep Dry Filter Exhaust Hood	7,344.40		1,278.56
23 38 13 16-0011	EA	12' Long x 60" Deep Dry Filter Exhaust Hood.....	7,620.42		1,334.14
23 38 13 16-0012	EA	12'-6" Long x 60" Deep Dry Filter Exhaust Hood	7,867.47		1,389.73
23 38 13 16-0013	EA	13' Long x 60" Deep Dry Filter Exhaust Hood.....	8,085.17		1,445.32
23 38 13 16-0014	EA	13'-6" Long x 60" Deep Dry Filter Exhaust Hood	8,405.52		1,500.91
23 38 13 16-0015	EA	14' Long x 60" Deep Dry Filter Exhaust Hood.....	9,249.27		1,556.50
23 38 13 16-0016	EA	14'-6" Long x 60" Deep Dry Filter Exhaust Hood	9,517.92		1,612.09
23 38 13 16-0017	EA	15' Long x 60" Deep Dry Filter Exhaust Hood.....	9,851.33		1,667.67
23 38 13 16-0018	EA	15'-6" Long x 60" Deep Dry Filter Exhaust Hood	10,122.97		1,723.27
23 38 13 16-0019	EA	16' Long x 60" Deep Dry Filter Exhaust Hood.....	10,492.83		1,778.85
23 38 13 16-0020 Dry Extractor Exhaust Hoods (23 38 13 16-0001)					
Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.					
23 38 13 16-0021	EA	8' Long x 60" Deep Dry Extractor Exhaust Hood.....	6,971.57		889.43
23 38 13 16-0022	EA	8'-6" Long x 60" Deep Dry Extractor Exhaust Hood	7,227.31		945.02
23 38 13 16-0023	EA	9' Long x 60" Deep Dry Extractor Exhaust Hood.....	7,831.58		1,000.60
23 38 13 16-0024	EA	9'-6" Long x 60" Deep Dry Extractor Exhaust Hood	8,090.60		1,056.20
23 38 13 16-0025	EA	10' Long x 60" Deep Dry Extractor Exhaust Hood.....	8,350.38		1,111.78
23 38 13 16-0026	EA	10'-6" Long x 60" Deep Dry Extractor Exhaust Hood	8,598.50		1,167.38
23 38 13 16-0027	EA	11' Long x 60" Deep Dry Extractor Exhaust Hood.....	8,858.93		1,222.96
23 38 13 16-0028	EA	11'-6" Long x 60" Deep Dry Extractor Exhaust Hood	9,109.30		1,278.56
23 38 13 16-0029	EA	12' Long x 60" Deep Dry Extractor Exhaust Hood.....	9,348.22		1,334.14
23 38 13 16-0030	EA	12'-6" Long x 60" Deep Dry Extractor Exhaust Hood	9,658.87		1,389.73
23 38 13 16-0031	EA	13' Long x 60" Deep Dry Extractor Exhaust Hood	10,009.07		1,445.32
23 38 13 16-0032	EA	13'-6" Long x 60" Deep Dry Extractor Exhaust Hood	10,377.12		1,500.91
23 38 13 16-0033	EA	14' Long x 60" Deep Dry Extractor Exhaust Hood.....	11,067.17		1,556.50
23 38 13 16-0034	EA	14'-6" Long x 60" Deep Dry Extractor Exhaust Hood	11,441.82		1,612.09
23 38 13 16-0035	EA	15' Long x 60" Deep Dry Extractor Exhaust Hood.....	12,098.53		1,667.67
23 38 13 16-0036	EA	15'-6" Long x 60" Deep Dry Extractor Exhaust Hood	12,767.67		1,723.27
23 38 13 16-0037	EA	16' Long x 60" Deep Dry Extractor Exhaust Hood	13,429.03		1,778.85

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 38 Ventilation Hoods**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 38 13 16-0038**Single Manifold Water Wash Exhaust Hoods** (23 38 13 16-0001)

Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.

23 38 13 16-0039	EA	8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	7,395.57	889.43
23 38 13 16-0040	EA	8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	7,661.91	945.02
23 38 13 16-0041	EA	9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	8,276.78	1,000.60
23 38 13 16-0042	EA	9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	8,541.10	1,056.20
23 38 13 16-0043	EA	10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	8,816.78	1,111.78
23 38 13 16-0044	EA	10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	9,075.50	1,167.38
23 38 13 16-0045	EA	11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	9,341.23	1,222.96
23 38 13 16-0046	EA	11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	9,607.50	1,278.56
23 38 13 16-0047	EA	12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	9,851.72	1,334.14
23 38 13 16-0048	EA	12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	10,183.57	1,389.73
23 38 13 16-0049	EA	13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	10,554.97	1,445.32
23 38 13 16-0050	EA	13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	10,944.22	1,500.91
23 38 13 16-0051	EA	14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	11,655.47	1,556.50
23 38 13 16-0052	EA	14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	12,051.32	1,612.09
23 38 13 16-0053	EA	15' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	12,766.33	1,667.67
23 38 13 16-0054	EA	15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	13,159.87	1,723.27
23 38 13 16-0055	EA	16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	13,550.93	1,778.85
23 38 13 16-0056	EA	Fan Wash Control Panel	5,064.43	444.71

Note: Includes time clock and backflow preventer.

23 38 13 16-0057**Utility Distribution System (UDS)** (23 38 13 16-0001)

Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 1" cold water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.

23 38 13 16-0058	EA	8' Long UDS	25,071.80	452.28
23 38 13 16-0059	EA	8'-6" Long UDS	25,810.66	463.28
23 38 13 16-0060	EA	9' Long UDS	26,541.41	474.06
23 38 13 16-0061	EA	9'-6" Long UDS	27,280.97	489.18
23 38 13 16-0062	EA	10' Long UDS	28,014.24	501.19
23 38 13 16-0063	EA	10'-6" Long UDS	28,741.02	513.87
23 38 13 16-0064	EA	11' Long UDS	29,475.50	522.65
23 38 13 16-0065	EA	11'-6" Long UDS	30,212.22	536.44
23 38 13 16-0066	EA	12' Long UDS	30,960.45	555.89
23 38 13 16-0067	EA	12'-6" Long UDS	31,722.61	582.35
23 38 13 16-0068	EA	13' Long UDS	32,466.09	599.48
23 38 13 16-0069	EA	13'-6" Long UDS	33,224.23	623.93
23 38 13 16-0070	EA	14' Long UDS	33,972.85	643.62
23 38 13 16-0071	EA	14'-6" Long UDS	34,724.04	664.62
23 38 13 16-0072	EA	15' Long UDS	35,478.06	687.08
23 38 13 16-0073	EA	15'-6" Long UDS	36,235.22	710.99
23 38 13 16-0074	EA	16' Long UDS	36,978.29	728.00

23 38 13 16-0075**Stainless Steel Exhaust Hood Material** (23 38 13 16)

Note: Welded seams.

23 38 13 16-0076	SF	16 Gauge Stainless Steel Exhaust Hood Material	74.12	14.46
23 38 13 16-0077	SF	14 Gauge Stainless Steel Exhaust Hood Material	92.64	19.29
23 38 13 16-0078	SF	12 Gauge Stainless Steel Exhaust Hood Material	128.52	26.03
23 38 13 16-0079	SF	10 Gauge Stainless Steel Exhaust Hood Material	160.29	31.82

23 40 HVAC Air Cleaning Devices (23)**23 41 Particulate Air Filtration** (23 40)**23 41 13 Panel Air Filters** (23 41)**23 41 13 00-0001****Disposable Air Filters** (23 41 13)

23 41 13 00-0002	EA	Throwaway Glass Or Paper Media Filter, Residential	11.88	
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23 41 13 00-0003**Electrostatic Air Filters With Frame, Element And Busbar** (23 41 13)

23 41 13 00-0004	MF3	Electrostatic Air Filter, High Efficiency Non Supported With Frame, Element And Busbar	57.63	
23 41 13 00-0005	MF3	Electrostatic Air Filter, Medium Efficiency Non Supported With Frame, Element And Busbar	55.66	
23 41 13 00-0006	MF3	Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar	2.40	

23 41 16 Renewable-Media Air Filters (23 41)**23 41 16 00-0001****Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar** (23 41 16)

23 41 16 00-0002	MF3	Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar	99.18	
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23 41 19 Washable Air Filters (23 41)

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

HVAC Air Cleaning Devices

23 40

Particulate Air Filtration

23 41**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 19 00-0001 Washable Electrostatic Air Filters With Frame, Element And Busbar (23 41 19)		
23 41 19 00-0002 MF3 Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar	37.87	
23 41 33 High-Efficiency Particulate Filtration (23 41)		
23 41 33 00-0001 HEPA Filters (23 41 33)		
Note: Includes particle board and kraft paper frame and separator material. See CSI section 23 41 13 00-0000 for prefilters.		
23 41 33 00-0002 HEPA Filters DOP Efficiency-95% (23 41 33 00-0001)		
23 41 33 00-0003 EA 12" x 12" x 6" HEPA Filter, 95% DOP Efficiency, 150 CFM, Complete.....	107.34	16.12
For Removal And Replacement In Existing Equipment, Add	3.22	
For >10 To 25, Deduct	-2.68	
For >25 To 50, Deduct	-5.37	
For >50 To 100, Deduct	-8.05	
For >100, Deduct	-10.73	
23 41 33 00-0004 EA 24" x 12" x 6" HEPA Filter, 95% DOP Efficiency, 375 CFM, Complete.....	141.69	18.42
For Removal And Replacement In Existing Equipment, Add	3.69	
For >10 To 25, Deduct	-3.54	
For >25 To 50, Deduct	-7.08	
For >50 To 100, Deduct	-10.63	
For >100, Deduct	-14.17	
23 41 33 00-0005 EA 24" x 18" x 6" HEPA Filter, 95% DOP Efficiency, 450 CFM, Complete.....	165.73	21.30
For Removal And Replacement In Existing Equipment, Add	4.26	
For >10 To 25, Deduct	-4.14	
For >25 To 50, Deduct	-8.29	
For >50 To 100, Deduct	-12.43	
For >100, Deduct	-16.57	
23 41 33 00-0006 EA 24" x 24" x 6" HEPA Filter, 95% DOP Efficiency, 700 CFM, Complete.....	189.80	24.18
For Removal And Replacement In Existing Equipment, Add	4.84	
For >10 To 25, Deduct	-4.75	
For >25 To 50, Deduct	-9.49	
For >50 To 100, Deduct	-14.24	
For >100, Deduct	-18.98	
23 41 33 00-0007 EA 12" x 12" x 12" HEPA Filter, 95% DOP Efficiency, 250 CFM, Complete.....	129.96	17.27
For Removal And Replacement In Existing Equipment, Add	3.45	
For >10 To 25, Deduct	-3.25	
For >25 To 50, Deduct	-6.50	
For >50 To 100, Deduct	-9.75	
For >100, Deduct	-13.00	
23 41 33 00-0008 EA 24" x 12" x 12" HEPA Filter, 95% DOP Efficiency, 500 CFM, Complete.....	173.48	20.15
For Removal And Replacement In Existing Equipment, Add	4.03	
For >10 To 25, Deduct	-4.34	
For >25 To 50, Deduct	-8.67	
For >50 To 100, Deduct	-13.01	
For >100, Deduct	-17.35	
23 41 33 00-0009 EA 24" x 18" x 12" HEPA Filter, 95% DOP Efficiency, 875 CFM, Complete.....	207.00	23.03
For Removal And Replacement In Existing Equipment, Add	4.61	
For >10 To 25, Deduct	-5.18	
For >25 To 50, Deduct	-10.35	
For >50 To 100, Deduct	-15.53	
For >100, Deduct	-20.70	
23 41 33 00-0010 EA 24" x 24" x 12" HEPA Filter, 95% DOP Efficiency, 1,000 CFM, Complete.....	246.27	28.79
For Removal And Replacement In Existing Equipment, Add	5.76	
For >10 To 25, Deduct	-6.16	
For >25 To 50, Deduct	-12.31	
For >50 To 100, Deduct	-18.47	
For >100, Deduct	-24.63	
23 41 33 00-0011 HEPA Filters DOP Efficiency-99.99% (23 41 33 00-0001)		
23 41 33 00-0012 EA 12" x 12" x 3" HEPA Filter, 99.99% DOP Efficiency, Complete	92.17	14.39
For Removal And Replacement In Existing Equipment, Add	2.88	
For >10 To 25, Deduct	-2.30	
For >25 To 50, Deduct	-4.61	
For >50 To 100, Deduct	-6.91	
For >100, Deduct	-9.22	
23 41 33 00-0013 EA 24" x 12" x 3" HEPA Filter, 99.99% DOP Efficiency, Complete	126.64	17.27
For Removal And Replacement In Existing Equipment, Add	3.45	
For >10 To 25, Deduct	-3.17	
For >25 To 50, Deduct	-6.33	
For >50 To 100, Deduct	-9.50	
For >100, Deduct	-12.66	
23 41 33 00-0014 EA 24" x 24" x 3" HEPA Filter, 99.99% DOP Efficiency, Complete	191.62	20.15
For Removal And Replacement In Existing Equipment, Add	4.03	
For >10 To 25, Deduct	-4.79	
For >25 To 50, Deduct	-9.58	
For >50 To 100, Deduct	-14.37	
For >100, Deduct	-19.16	
23 41 33 00-0015 EA 36" x 24" x 3" HEPA Filter, 99.99% DOP Efficiency, Complete	245.39	23.03
For Removal And Replacement In Existing Equipment, Add	4.61	
For >10 To 25, Deduct	-6.13	
For >25 To 50, Deduct	-12.27	
For >50 To 100, Deduct	-18.40	
For >100, Deduct	-24.54	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0016 EA 8" x 8" x 6" HEPA Filter, 99.99% DOP Efficiency, Complete For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	86.36 2.30 -2.16 -4.32 -6.48 -8.64	11.51
23 41 33 00-0017 EA 12" x 12" x 6" HEPA Filter, 99.99% DOP Efficiency, 150 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	114.55 3.11 -2.86 -5.73 -8.59 -11.46	15.54
23 41 33 00-0018 EA 24" x 12" x 6" HEPA Filter, 99.99% DOP Efficiency, 325 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	153.34 3.69 -3.83 -7.67 -11.50 -15.33	18.42
23 41 33 00-0019 EA 24" x 18" x 6" HEPA Filter, 99.99% DOP Efficiency, 550 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	180.00 4.32 -4.50 -9.00 -13.50 -18.00	21.58
23 41 33 00-0020 EA 24" x 24" x 6" HEPA Filter, 99.99% DOP Efficiency, 775 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	205.51 4.84 -5.14 -10.28 -15.41 -20.55	24.18
23 41 33 00-0021 EA 12" x 12" x 12" HEPA Filter, 99.99% DOP Efficiency, 250 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	140.55 3.45 -3.51 -7.03 -10.54 -14.06	17.27
23 41 33 00-0022 EA 24" x 12" x 12" HEPA Filter, 99.99% DOP Efficiency, 500 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	188.28 4.03 -4.71 -9.41 -14.12 -18.83	20.15
23 41 33 00-0023 EA 24" x 18" x 12" HEPA Filter, 99.99% DOP Efficiency, 775 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	224.88 4.61 -5.62 -11.24 -16.87 -22.49	23.03
23 41 33 00-0024 EA 24" x 24" x 12" HEPA Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete..... For Removal And Replacement In Existing Equipment, Add For >10 To 25, Deduct For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	277.20 5.76 -6.93 -13.86 -20.79 -27.72	28.79

23 41 33 00-0025 HEPA Filter Housings, 14 Gauge Galvanized Sheet Metal (23 41 33)

Note: Nominal sizes.

23 41 33 00-0026 EA 12" x 12" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	278.19	85.84
23 41 33 00-0027 EA 24" x 12" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	522.59	170.63
23 41 33 00-0028 EA 24" x 18" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	529.83	170.63
23 41 33 00-0029 EA 24" x 24" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	534.66	170.63
23 41 33 00-0030 EA 24" x 48" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	568.45	170.63
23 41 33 00-0031 EA 24" x 72" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	610.69	170.63
23 41 33 00-0032 EA 48" x 48" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	1,016.20	342.32
23 41 33 00-0033 EA 48" x 72" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	1,118.79	342.32
23 41 33 00-0034 EA 48" x 96" x 6" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	1,249.14	342.32
23 41 33 00-0035 EA 12" x 12" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	298.71	85.84
23 41 33 00-0036 EA 24" x 12" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	557.59	170.63
23 41 33 00-0037 EA 24" x 18" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	566.04	170.63
23 41 33 00-0038 EA 24" x 24" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	572.07	170.63
23 41 33 00-0039 EA 24" x 48" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	611.90	170.63
23 41 33 00-0040 EA 24" x 72" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	665.00	170.63
23 41 33 00-0041 EA 48" x 48" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	1,100.69	342.32
23 41 33 00-0042 EA 48" x 72" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	1,228.62	342.32
23 41 33 00-0043 EA 48" x 96" x 12" HEPA Filter Housings 14 Gauge Galvanized Sheet Metal	1,390.35	342.32

23 41 33 00-0044 Filter, Bag Type, 90-95% Efficiency (23 41 33)

23 41 33 00-0045 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency.....	258.55	111.27
23 41 33 00-0046 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency.....	292.32	111.27

23 41 33 00-0047 Filter, Bag Type, 80-85% Efficiency (23 41 33)

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****HVAC Air Cleaning Devices****23 40****Particulate Air Filtration****23 41****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 41 33 00-0048	EA	0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency.....	254.67	111.27
23 41 33 00-0049	EA	1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency.....	279.59	111.27

23 42 Gas-Phase Air Filtration (23 40)**23 42 13 Activated-Carbon Air Filtration** (23 42)

23 42 13 00-0001	EA	12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	38.68	8.63
23 42 13 00-0002	EA	16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	39.10	8.63
23 42 13 00-0003	EA	16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	39.36	8.63
23 42 13 00-0004	EA	20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	39.36	8.63
23 42 13 00-0005	EA	20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	42.53	8.63
23 42 13 00-0006	EA	24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	47.73	8.63
23 42 13 00-0007	EA	12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	48.65	9.79
23 42 13 00-0008	EA	16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	49.00	9.79
23 42 13 00-0009	EA	16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	49.30	9.79
23 42 13 00-0010	EA	20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	49.30	9.79
23 42 13 00-0011	EA	20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	52.80	9.79
23 42 13 00-0012	EA	24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	62.55	9.79
23 42 13 00-0013	EA	16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....	24.20	8.63
23 42 13 00-0014	EA	16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....	25.71	8.63
23 42 13 00-0015	EA	20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....	25.76	8.63
23 42 13 00-0016	EA	20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....	27.73	8.63
23 42 13 00-0017	EA	24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter.....	29.48	8.63
23 42 13 00-0018	EA	16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....	27.98	9.79
23 42 13 00-0019	EA	16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	30.61	9.79
23 42 13 00-0020	EA	20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....	31.16	9.79
23 42 13 00-0021	EA	20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	34.42	9.79
23 42 13 00-0022	EA	24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter.....	36.49	9.79
23 42 13 00-0023	EA	24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter.....	59.07	10.36

23 44 Ultraviolet HVAC Microbial Control (23 40)**23 44 00 00-0001 Double Ended Ultraviolet HVAC Microbial Control Fixtures** (23 44)

23 44 00 00-0002	EA	18" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-181-VO)..... Note: Includes tube.	457.77	69.20
23 44 00 00-0003	EA	24" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-241-VO)..... Note: Includes tube.	478.19	72.63
23 44 00 00-0004	EA	30" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-301-VO)..... Note: Includes tube.	482.02	75.75
23 44 00 00-0005	EA	36" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-361-VO)..... Note: Includes tube.	504.46	79.58
23 44 00 00-0006	EA	42" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-421-VO)..... Note: Includes tube.	543.56	83.01
23 44 00 00-0007	EA	62" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-621-VO)..... Note: Includes tube.	617.32	85.60

23 44 00 00-0008 Single Ended Ultraviolet HVAC Microbial Control Fixtures (23 44)

23 44 00 00-0009	EA	12" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-121-VO)..... Note: Includes tube.	391.92	47.94
23 44 00 00-0010	EA	16" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-161-VO)..... Note: Includes tube.	400.10	51.88
23 44 00 00-0011	EA	20" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-201-VO)..... Note: Includes tube.	408.45	54.99
23 44 00 00-0012	EA	24" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-241-VO)..... Note: Includes tube.	410.38	59.15
23 44 00 00-0013	EA	30" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-301-VO)..... Note: Includes tube.	427.54	62.25
23 44 00 00-0014	EA	36" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-361-VO)..... Note: Includes tube.	438.54	65.37
23 44 00 00-0015	EA	42" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-421-VO)..... Note: Includes tube.	449.61	69.51
23 44 00 00-0016	EA	12" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-121-VO)..... Note: Includes tube.	454.91	47.94
23 44 00 00-0017	EA	16" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-161-VO)..... Note: Includes tube.	463.09	51.88
23 44 00 00-0018	EA	20" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-201-VO)..... Note: Includes tube.	471.44	54.99
23 44 00 00-0019	EA	24" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-241-VO)..... Note: Includes tube.	473.36	59.15
23 44 00 00-0020	EA	30" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-301-VO)..... Note: Includes tube.	490.53	62.25
23 44 00 00-0021	EA	36" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-361-VO)..... Note: Includes tube.	501.53	65.37
23 44 00 00-0022	EA	42" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-421-VO)..... Note: Includes tube.	512.60	69.51
23 44 00 00-0023	EA	16" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-161-VO)..... Note: Includes tube.	326.04	51.88
23 44 00 00-0024	EA	20" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-201-VO)..... Note: Includes tube.	334.38	54.99

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 44 Ultraviolet HVAC Microbial Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 44 00 00-0025 EA 24" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-241-VO) Note: Includes tube.	336.31	59.15
23 44 00 00-0026 EA 30" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-301-VO) Note: Includes tube.	353.47	62.25
23 44 00 00-0027 EA 36" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-361-VO) Note: Includes tube.	364.47	65.37
23 44 00 00-0028 EA 42" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-421-VO) Note: Includes tube.	375.54	69.51
23 44 00 00-0029 Fan Coil Unit Ultraviolet Microbial Control Fixtures (23 44)		
23 44 00 00-0030 EA 16" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	299.49	66.41
23 44 00 00-0031 EA 20" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	307.62	69.51
23 44 00 00-0032 EA 24" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	315.74	72.63
23 44 00 00-0033 EA 30" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	325.78	75.75
23 44 00 00-0034 EA 36" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	337.99	79.58
23 44 00 00-0035 EA 42" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	349.05	83.01
23 44 00 00-0036 Ultraviolet HVAC Microbial Control Replacement Parts (23 44)		
23 44 00 00-0037 EA 18" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-16-VO) 23 44 00 00-0038 EA 24" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-22-VO) 23 44 00 00-0039 EA 30" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-28-VO) 23 44 00 00-0040 EA 36" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-34-VO) 23 44 00 00-0041 EA 42" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-40-VO) 23 44 00 00-0042 EA 62" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-60-VO) 23 44 00 00-0043 EA 12" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-12-VO) 23 44 00 00-0044 EA 16" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-16-VO) 23 44 00 00-0045 EA 20" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-20-VO) 23 44 00 00-0046 EA 24" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-24-VO) 23 44 00 00-0047 EA 30" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-30-VO) 23 44 00 00-0048 EA 36" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-36-VO) 23 44 00 00-0049 EA 42" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-42-VO) 23 44 00 00-0050 EA Replacement Power Supply For Ultraviolet Microbial Control Fixture (Steril-Aire)	79.11 83.03 93.04 105.78 118.80 143.51 76.00 80.02 84.22 81.99 95.01 101.86 108.78 219.50	
23 44 00 00-0051 Ultraviolet HVAC Microbial Control Mounting Accessories (23 44)		
23 44 00 00-0052 EA Two Spring Clip, 61" Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006610) Note: Includes 61" emitter, power supply, wires and connectors. 23 44 00 00-0053 EA Two Spring Clip, 61" Sleeved Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006620) Note: Includes 61" emitter, power supply, wires and connectors. 23 44 00 00-0054 EA Two Spring Clip, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-1) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0055 EA Two Short Hook Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-2) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0056 EA Flat Plate For Metal, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-3) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0057 EA Flat Plate For Plastic, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-4) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0058 EA Insert Lamp Holder, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-5) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0059 EA 16" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-6) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0060 EA 12" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-7) Note: Includes power supply, wires and connectors. Excludes emitter. 23 44 00 00-0061 LF 30 x 30 mm Framing Structure For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000101) 23 44 00 00-0062 EA Vertical Support Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000111) 23 44 00 00-0063 EA Joint Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000112) 23 44 00 00-0064 EA Emitter Mounting Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000113) 23 44 00 00-0065 EA Foundation Bracket FB 8WA For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000104) 23 44 00 00-0066 EA Slider Assembly Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000114) 23 44 00 00-0067 EA Splice Kit For Horizontal Rows For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000108) 23 44 00 00-0068 EA Gusset Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000115) 23 44 00 00-0069 EA ISO "A" Bracket Hanger For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000109) 23 44 00 00-0070 EA DE Boot Kit UV Resistant For 1 DE Fixture For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000223) 23 44 00 00-0071 EA DE Wiring Kit For Up To 65" (DE Bank Install) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000603) 23 44 00 00-0072 EA Cleaning Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000100) 23 44 00 00-0073 EA 480 To 220 Volt AC / 180 VA Step-Down Transformer For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000503) 23 44 00 00-0074 EA Interlock Switch (16 Amps At 125 Volt, 10 Amps At 250 Volt Maximum Ampacity) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000120)	408.22 506.89 252.67 264.75 309.98 203.91 218.77 293.76 290.33 11.12 38.71 14.52 13.92 36.26 37.86 34.05 28.34 26.98 16.31 29.86 16.37 57.38 59.93	

23 50 Central Heating Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 00-0001 for disconnect.



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, And Stacks			23 51

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 Breechings, Chimneys, And Stacks (23 50)		
23 51 13 Draft Control Devices (23 51)		
23 51 13 00-0001 Vertical Discharge Fans (23 51 13) Note: Includes chimney adapter. Excludes wiring.		
23 51 13 00-0002 Axial Vane Vertical Discharge Fans (23 51 13 00-0001)		
23 51 13 00-0003 EA 450 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,812.11	233.15
23 51 13 00-0004 EA 950 CFM Vertical Discharge Chimney Fan, Axial Vane.....	4,326.82	254.36
23 51 13 00-0005 EA 1,400 CFM Vertical Discharge Chimney Fan, Axial Vane.....	5,206.35	280.84
23 51 13 00-0006 EA 1,800 CFM Vertical Discharge Chimney Fan, Axial Vane.....	6,825.13	325.89
23 51 13 00-0007 Centrifugal Impeller Vertical Discharge Fans (23 51 13 00-0001)		
23 51 13 00-0008 EA 700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	4,595.87	254.36
23 51 13 00-0009 EA 1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,619.75	280.84
23 51 13 00-0010 EA 2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	7,315.93	328.54
23 51 13 00-0011 EA 3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	8,674.67	368.28
23 51 13 00-0012 Accessories For Vertical Discharge Fans (23 51 13 00-0001)		
23 51 13 00-0013 EA Modulating Fan Controller And Sensor.....	513.21	79.49
23 51 13 00-0014 Flue Shutter Dampers (23 51 13 00-0001)		
23 51 13 00-0015 EA 8" Flue Size, Shutter Damper	558.14	105.98
23 51 13 00-0016 EA 9" Flue Size, Shutter Damper	601.60	112.87
23 51 13 00-0017 EA 10" Flue Size, Shutter Damper	627.38	120.81
23 51 13 00-0018 EA 12" Flue Size, Shutter Damper	686.01	130.35
23 51 13 00-0019 EA 14" Flue Size, Shutter Damper	767.61	141.48
23 51 13 00-0020 EA 16" Flue Size, Shutter Damper	832.59	154.20
23 51 13 00-0021 EA 18" Flue Size, Shutter Damper	912.79	169.57
23 51 13 00-0022 EA 20" Flue Size, Shutter Damper	1,015.23	188.64
23 51 13 00-0023 EA 22" Flue Size, Shutter Damper	1,126.18	211.96
23 51 13 00-0024 EA 24" Flue Size, Shutter Damper	1,250.92	242.16
23 51 16 Fabricated Breechings And Accessories (23 51)		
23 51 16 00-0001 Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)		
23 51 16 00-0002 Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)		
23 51 16 00-0003 LF 3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	29.36	9.43
For Aluminum Liner, Add	0.32	
For Stainless Steel Liner, Add	0.44	
For 2" Wall Instead Of 1", Add	4.10	
For 3" To 4" Wall Instead Of 1", Add	7.33	
23 51 16 00-0004 LF 4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	31.48	9.96
For Aluminum Liner, Add	0.39	
For Stainless Steel Liner, Add	0.54	
For 2" Wall Instead Of 1", Add	4.58	
For 3" To 4" Wall Instead Of 1", Add	8.09	
23 51 16 00-0005 LF 5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	34.71	10.60
For Aluminum Liner, Add	0.47	
For Stainless Steel Liner, Add	0.64	
For 2" Wall Instead Of 1", Add	5.17	
For 3" To 4" Wall Instead Of 1", Add	9.06	
23 51 16 00-0006 LF 6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	37.81	11.34
For Aluminum Liner, Add	0.54	
For Stainless Steel Liner, Add	0.74	
For 2" Wall Instead Of 1", Add	5.75	
For 3" To 4" Wall Instead Of 1", Add	10.03	
23 51 16 00-0007 LF 7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	44.15	12.08
For Aluminum Liner, Add	0.80	
For Stainless Steel Liner, Add	1.09	
For 2" Wall Instead Of 1", Add	7.32	
For 3" To 4" Wall Instead Of 1", Add	12.46	
23 51 16 00-0008 LF 8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	49.07	13.04
For Aluminum Liner, Add	0.89	
For Stainless Steel Liner, Add	1.21	
For 2" Wall Instead Of 1", Add	8.14	
For 3" To 4" Wall Instead Of 1", Add	13.86	
23 51 16 00-0009 LF 10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	69.73	13.99
For Aluminum Liner, Add	1.88	
For Stainless Steel Liner, Add	2.56	
For 2" Wall Instead Of 1", Add	13.80	
For 3" To 4" Wall Instead Of 1", Add	22.48	
23 51 16 00-0010 LF 12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	84.40	15.47
For Aluminum Liner, Add	2.52	
For Stainless Steel Liner, Add	3.44	
For 2" Wall Instead Of 1", Add	17.60	
For 3" To 4" Wall Instead Of 1", Add	28.34	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0011 LF 14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	117.32	16.10
For Aluminum Liner, Add	4.23	
For Stainless Steel Liner, Add	5.77	
For 2" Wall Instead Of 1", Add	27.12	
For 3" To 4" Wall Instead Of 1", Add	42.70	
23 51 16 00-0012 LF 16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	145.95	16.96
For Aluminum Liner, Add	5.71	
For Stainless Steel Liner, Add	7.78	
For 2" Wall Instead Of 1", Add	35.35	
For 3" To 4" Wall Instead Of 1", Add	55.13	
23 51 16 00-0013 LF 18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	178.99	17.80
For Aluminum Liner, Add	7.37	
For Stainless Steel Liner, Add	10.05	
For 2" Wall Instead Of 1", Add	44.70	
For 3" To 4" Wall Instead Of 1", Add	69.30	
23 51 16 00-0014 LF 20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	228.90	28.30
For Aluminum Liner, Add	8.75	
For Stainless Steel Liner, Add	11.93	
For 2" Wall Instead Of 1", Add	54.71	
For 3" To 4" Wall Instead Of 1", Add	85.55	
23 51 16 00-0015 LF 22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	276.00	29.89
For Aluminum Liner, Add	11.03	
For Stainless Steel Liner, Add	15.04	
For 2" Wall Instead Of 1", Add	67.72	
For 3" To 4" Wall Instead Of 1", Add	105.35	
23 51 16 00-0016 LF 24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	327.39	31.80
For Aluminum Liner, Add	13.60	
For Stainless Steel Liner, Add	18.55	
For 2" Wall Instead Of 1", Add	82.19	
For 3" To 4" Wall Instead Of 1", Add	127.30	
23 51 16 00-0017 LF 26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	379.44	32.85
For Aluminum Liner, Add	16.36	
For Stainless Steel Liner, Add	22.31	
For 2" Wall Instead Of 1", Add	97.43	
For 3" To 4" Wall Instead Of 1", Add	150.24	
23 51 16 00-0018 LF 28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	397.73	33.92
For Aluminum Liner, Add	17.21	
For Stainless Steel Liner, Add	23.47	
For 2" Wall Instead Of 1", Add	102.37	
For 3" To 4" Wall Instead Of 1", Add	157.79	
23 51 16 00-0019 LF 30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	422.74	36.35
For Aluminum Liner, Add	18.26	
For Stainless Steel Liner, Add	24.90	
For 2" Wall Instead Of 1", Add	108.67	
For 3" To 4" Wall Instead Of 1", Add	167.55	
23 51 16 00-0020 LF 32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	477.99	37.73
For Aluminum Liner, Add	21.11	
For Stainless Steel Liner, Add	28.79	
For 2" Wall Instead Of 1", Add	124.57	
For 3" To 4" Wall Instead Of 1", Add	191.57	
23 51 16 00-0021 LF 34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	535.21	39.11
For Aluminum Liner, Add	24.06	
For Stainless Steel Liner, Add	32.81	
For 2" Wall Instead Of 1", Add	141.02	
For 3" To 4" Wall Instead Of 1", Add	216.41	
23 51 16 00-0022 LF 36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	563.31	40.69
For Aluminum Liner, Add	25.39	
For Stainless Steel Liner, Add	34.63	
For 2" Wall Instead Of 1", Add	148.67	
For 3" To 4" Wall Instead Of 1", Add	228.08	
23 51 16 00-0023 LF 38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	610.77	42.39
For Aluminum Liner, Add	27.77	
For Stainless Steel Liner, Add	37.87	
For 2" Wall Instead Of 1", Add	162.06	
For 3" To 4" Wall Instead Of 1", Add	248.38	
23 51 16 00-0024 LF 40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	672.51	44.19
For Aluminum Liner, Add	30.91	
For Stainless Steel Liner, Add	42.15	
For 2" Wall Instead Of 1", Add	179.65	
For 3" To 4" Wall Instead Of 1", Add	275.00	
23 51 16 00-0025 LF 42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	703.56	46.20
For Aluminum Liner, Add	32.34	
For Stainless Steel Liner, Add	44.09	
For 2" Wall Instead Of 1", Add	187.94	
For 3" To 4" Wall Instead Of 1", Add	287.69	
23 51 16 00-0026 LF 44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	778.23	48.43
For Aluminum Liner, Add	36.14	
For Stainless Steel Liner, Add	49.28	
For 2" Wall Instead Of 1", Add	209.24	
For 3" To 4" Wall Instead Of 1", Add	319.92	
23 51 16 00-0027 LF 46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	844.80	50.87
For Aluminum Liner, Add	39.47	
For Stainless Steel Liner, Add	53.82	
For 2" Wall Instead Of 1", Add	228.00	
For 3" To 4" Wall Instead Of 1", Add	348.36	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0028	LF		48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	929.02	53.52
			For Aluminum Liner, Add	43.75	
			For Stainless Steel Liner, Add	59.66	
			For 2" Wall Instead Of 1", Add	251.98	
			For 3" To 4" Wall Instead Of 1", Add	384.66	
23 51 16 00-0029 90 Degree Elbows (23 51 16 00-0001)					
23 51 16 00-0030	EA		3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	73.52	18.87
			For Aluminum Liner, Add	1.47	
			For Stainless Steel Liner, Add	2.01	
			For 2" Wall Instead Of 1", Add	12.71	
			For 3" To 4" Wall Instead Of 1", Add	21.40	
23 51 16 00-0031	EA		4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	81.31	19.92
			For Aluminum Liner, Add	1.74	
			For Stainless Steel Liner, Add	2.37	
			For 2" Wall Instead Of 1", Add	14.46	
			For 3" To 4" Wall Instead Of 1", Add	24.17	
23 51 16 00-0032	EA		5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	90.51	21.19
			For Aluminum Liner, Add	2.08	
			For Stainless Steel Liner, Add	2.83	
			For 2" Wall Instead Of 1", Add	16.60	
			For 3" To 4" Wall Instead Of 1", Add	27.54	
23 51 16 00-0033	EA		6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	99.93	22.58
			For Aluminum Liner, Add	2.41	
			For Stainless Steel Liner, Add	3.29	
			For 2" Wall Instead Of 1", Add	18.77	
			For 3" To 4" Wall Instead Of 1", Add	30.95	
23 51 16 00-0034	EA		7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	118.75	24.17
			For Aluminum Liner, Add	3.23	
			For Stainless Steel Liner, Add	4.40	
			For 2" Wall Instead Of 1", Add	23.61	
			For 3" To 4" Wall Instead Of 1", Add	38.42	
23 51 16 00-0035	EA		8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	138.67	26.07
			For Aluminum Liner, Add	4.04	
			For Stainless Steel Liner, Add	5.51	
			For 2" Wall Instead Of 1", Add	28.57	
			For 3" To 4" Wall Instead Of 1", Add	46.11	
23 51 16 00-0036	EA		10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	239.88	28.30
			For Aluminum Liner, Add	9.30	
			For Stainless Steel Liner, Add	12.68	
			For 2" Wall Instead Of 1", Add	57.79	
			For 3" To 4" Wall Instead Of 1", Add	90.23	
23 51 16 00-0037	EA		12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	290.16	30.84
			For Aluminum Liner, Add	11.72	
			For Stainless Steel Liner, Add	15.98	
			For 2" Wall Instead Of 1", Add	71.64	
			For 3" To 4" Wall Instead Of 1", Add	111.31	
23 51 16 00-0038	EA		14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	375.44	32.32
			For Aluminum Liner, Add	16.21	
			For Stainless Steel Liner, Add	22.10	
			For 2" Wall Instead Of 1", Add	96.48	
			For 3" To 4" Wall Instead Of 1", Add	148.76	
23 51 16 00-0039	EA		16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	460.88	33.92
			For Aluminum Liner, Add	20.69	
			For Stainless Steel Liner, Add	28.22	
			For 2" Wall Instead Of 1", Add	121.34	
			For 3" To 4" Wall Instead Of 1", Add	186.24	
23 51 16 00-0040	EA		18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	594.93	35.72
			For Aluminum Liner, Add	27.81	
			For Stainless Steel Liner, Add	37.92	
			For 2" Wall Instead Of 1", Add	160.61	
			For 3" To 4" Wall Instead Of 1", Add	245.39	
23 51 16 00-0041	EA		20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	839.53	56.49
			For Aluminum Liner, Add	38.40	
			For Stainless Steel Liner, Add	52.36	
			For 2" Wall Instead Of 1", Add	223.58	
			For 3" To 4" Wall Instead Of 1", Add	342.44	
23 51 16 00-0042	EA		22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,105.05	59.87
			For Aluminum Liner, Add	52.54	
			For Stainless Steel Liner, Add	71.65	
			For 2" Wall Instead Of 1", Add	301.58	
			For 3" To 4" Wall Instead Of 1", Add	459.85	
23 51 16 00-0043	EA		24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,246.77	63.58
			For Aluminum Liner, Add	59.82	
			For Stainless Steel Liner, Add	81.57	
			For 2" Wall Instead Of 1", Add	342.21	
			For 3" To 4" Wall Instead Of 1", Add	521.26	
23 51 16 00-0044 45 Degree Elbows (23 51 16 00-0001)					
23 51 16 00-0045	EA		3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	62.49	18.87
			For Aluminum Liner, Add	0.85	
			For Stainless Steel Liner, Add	1.16	
			For 2" Wall Instead Of 1", Add	9.34	
			For 3" To 4" Wall Instead Of 1", Add	16.36	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0046 EA 4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	68.10	19.92
For Aluminum Liner, Add	1.00	
For Stainless Steel Liner, Add	1.36	
For 2" Wall Instead Of 1", Add	10.45	
For 3" To 4" Wall Instead Of 1", Add	18.17	
23 51 16 00-0047 EA 5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	74.40	21.19
For Aluminum Liner, Add	1.18	
For Stainless Steel Liner, Add	1.61	
For 2" Wall Instead Of 1", Add	11.72	
For 3" To 4" Wall Instead Of 1", Add	20.23	
23 51 16 00-0048 EA 6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	82.14	22.58
For Aluminum Liner, Add	1.41	
For Stainless Steel Liner, Add	1.92	
For 2" Wall Instead Of 1", Add	13.34	
For 3" To 4" Wall Instead Of 1", Add	22.84	
23 51 16 00-0049 EA 7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	97.27	24.17
For Aluminum Liner, Add	2.02	
For Stainless Steel Liner, Add	2.76	
For 2" Wall Instead Of 1", Add	17.08	
For 3" To 4" Wall Instead Of 1", Add	28.64	
23 51 16 00-0050 EA 8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	107.44	26.07
For Aluminum Liner, Add	2.32	
For Stainless Steel Liner, Add	3.17	
For 2" Wall Instead Of 1", Add	19.20	
For 3" To 4" Wall Instead Of 1", Add	32.05	
23 51 16 00-0051 EA 10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	176.31	28.30
For Aluminum Liner, Add	5.81	
For Stainless Steel Liner, Add	7.92	
For 2" Wall Instead Of 1", Add	38.76	
For 3" To 4" Wall Instead Of 1", Add	61.67	
23 51 16 00-0052 EA 12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	210.26	30.84
For Aluminum Liner, Add	7.33	
For Stainless Steel Liner, Add	9.99	
For 2" Wall Instead Of 1", Add	47.67	
For 3" To 4" Wall Instead Of 1", Add	75.35	
23 51 16 00-0053 EA 14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	268.17	32.32
For Aluminum Liner, Add	10.31	
For Stainless Steel Liner, Add	14.06	
For 2" Wall Instead Of 1", Add	64.30	
For 3" To 4" Wall Instead Of 1", Add	100.48	
23 51 16 00-0054 EA 16" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	319.91	33.92
For Aluminum Liner, Add	12.93	
For Stainless Steel Liner, Add	17.64	
For 2" Wall Instead Of 1", Add	79.02	
For 3" To 4" Wall Instead Of 1", Add	122.77	
23 51 16 00-0055 EA 18" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	405.24	35.72
For Aluminum Liner, Add	17.38	
For Stainless Steel Liner, Add	23.70	
For 2" Wall Instead Of 1", Add	103.72	
For 3" To 4" Wall Instead Of 1", Add	160.05	
23 51 16 00-0056 EA 20" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	497.35	56.39
For Aluminum Liner, Add	19.60	
For Stainless Steel Liner, Add	26.73	
For 2" Wall Instead Of 1", Add	121.02	
For 3" To 4" Wall Instead Of 1", Add	188.58	
23 51 16 00-0057 EA 22" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	686.16	59.87
For Aluminum Liner, Add	29.51	
For Stainless Steel Liner, Add	40.24	
For 2" Wall Instead Of 1", Add	175.91	
For 3" To 4" Wall Instead Of 1", Add	271.35	
23 51 16 00-0058 EA 24" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	838.64	63.58
For Aluminum Liner, Add	37.39	
For Stainless Steel Liner, Add	50.98	
For 2" Wall Instead Of 1", Add	219.82	
For 3" To 4" Wall Instead Of 1", Add	337.67	
23 51 16 00-0059 EA 26" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,505.34	65.70
For Aluminum Liner, Add	73.76	
For Stainless Steel Liner, Add	100.59	
For 2" Wall Instead Of 1", Add	418.77	
For 3" To 4" Wall Instead Of 1", Add	636.36	
23 51 16 00-0060 EA 28" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,547.38	67.83
For Aluminum Liner, Add	75.79	
For Stainless Steel Liner, Add	103.34	
For 2" Wall Instead Of 1", Add	430.32	
For 3" To 4" Wall Instead Of 1", Add	653.96	
23 51 16 00-0061 EA 30" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,631.47	72.07
For Aluminum Liner, Add	79.83	
For Stainless Steel Liner, Add	108.86	
For 2" Wall Instead Of 1", Add	453.43	
For 3" To 4" Wall Instead Of 1", Add	689.15	
23 51 16 00-0062 EA 32" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,820.47	74.19
For Aluminum Liner, Add	89.93	
For Stainless Steel Liner, Add	122.63	
For 2" Wall Instead Of 1", Add	509.07	
For 3" To 4" Wall Instead Of 1", Add	772.88	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, And Stacks			23 51

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0063	EA		34" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	1,987.24	78.42
			For Aluminum Liner, Add	98.52	
			For Stainless Steel Liner, Add	134.35	
			For 2" Wall Instead Of 1", Add	556.98	
			For 3" To 4" Wall Instead Of 1", Add	845.27	
23 51 16 00-0064	EA		36" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,049.05	84.79
			For Aluminum Liner, Add	101.05	
			For Stainless Steel Liner, Add	137.79	
			For 2" Wall Instead Of 1", Add	572.35	
			For 3" To 4" Wall Instead Of 1", Add	869.12	
23 51 16 00-0065	EA		38" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,194.26	87.75
			For Aluminum Liner, Add	108.63	
			For Stainless Steel Liner, Add	148.13	
			For 2" Wall Instead Of 1", Add	614.43	
			For 3" To 4" Wall Instead Of 1", Add	932.61	
23 51 16 00-0066	EA		40" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,335.24	89.03
			For Aluminum Liner, Add	116.20	
			For Stainless Steel Liner, Add	158.46	
			For 2" Wall Instead Of 1", Add	656.09	
			For 3" To 4" Wall Instead Of 1", Add	995.25	
23 51 16 00-0067	EA		42" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,437.67	93.26
			For Aluminum Liner, Add	121.26	
			For Stainless Steel Liner, Add	165.35	
			For 2" Wall Instead Of 1", Add	684.70	
			For 3" To 4" Wall Instead Of 1", Add	1,038.70	
23 51 16 00-0068	EA		44" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,586.05	97.50
			For Aluminum Liner, Add	128.84	
			For Stainless Steel Liner, Add	175.68	
			For 2" Wall Instead Of 1", Add	727.10	
			For 3" To 4" Wall Instead Of 1", Add	1,102.83	
23 51 16 00-0069	EA		46" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,780.36	101.74
			For Aluminum Liner, Add	138.94	
			For Stainless Steel Liner, Add	189.46	
			For 2" Wall Instead Of 1", Add	783.27	
			For 3" To 4" Wall Instead Of 1", Add	1,187.62	
23 51 16 00-0070	EA		48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,882.81	105.98
			For Aluminum Liner, Add	143.99	
			For Stainless Steel Liner, Add	196.35	
			For 2" Wall Instead Of 1", Add	811.89	
			For 3" To 4" Wall Instead Of 1", Add	1,231.07	
23 51 16 00-0071			Tees (23 51 16 00-0001)		
23 51 16 00-0072	EA		3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	100.55	25.12
			For Aluminum Liner, Add	2.07	
			For Stainless Steel Liner, Add	2.82	
			For 2" Wall Instead Of 1", Add	17.59	
			For 3" To 4" Wall Instead Of 1", Add	29.53	
23 51 16 00-0073	EA		4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	104.68	26.07
			For Aluminum Liner, Add	2.17	
			For Stainless Steel Liner, Add	2.96	
			For 2" Wall Instead Of 1", Add	18.37	
			For 3" To 4" Wall Instead Of 1", Add	30.81	
23 51 16 00-0074	EA		5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	109.18	27.13
			For Aluminum Liner, Add	2.27	
			For Stainless Steel Liner, Add	3.10	
			For 2" Wall Instead Of 1", Add	19.19	
			For 3" To 4" Wall Instead Of 1", Add	32.17	
23 51 16 00-0075	EA		6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	116.62	28.30
			For Aluminum Liner, Add	2.53	
			For Stainless Steel Liner, Add	3.44	
			For 2" Wall Instead Of 1", Add	20.85	
			For 3" To 4" Wall Instead Of 1", Add	34.81	
23 51 16 00-0076	EA		7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	137.14	29.46
			For Aluminum Liner, Add	3.49	
			For Stainless Steel Liner, Add	4.75	
			For 2" Wall Instead Of 1", Add	26.39	
			For 3" To 4" Wall Instead Of 1", Add	43.27	
23 51 16 00-0077	EA		8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	146.85	30.84
			For Aluminum Liner, Add	3.84	
			For Stainless Steel Liner, Add	5.24	
			For 2" Wall Instead Of 1", Add	28.65	
			For 3" To 4" Wall Instead Of 1", Add	46.82	
23 51 16 00-0078	EA		10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	269.98	32.32
			For Aluminum Liner, Add	10.41	
			For Stainless Steel Liner, Add	14.19	
			For 2" Wall Instead Of 1", Add	64.84	
			For 3" To 4" Wall Instead Of 1", Add	101.30	
23 51 16 00-0079	EA		12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	312.57	33.92
			For Aluminum Liner, Add	12.53	
			For Stainless Steel Liner, Add	17.09	
			For 2" Wall Instead Of 1", Add	76.82	
			For 3" To 4" Wall Instead Of 1", Add	119.47	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0080	EA		14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	465.30	37.73
			For Aluminum Liner, Add	20.41	
			For Stainless Steel Liner, Add	27.83	
			For 2" Wall Instead Of 1", Add	120.75	
			For 3" To 4" Wall Instead Of 1", Add	185.84	
23 51 16 00-0081	EA		16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	631.39	42.39
			For Aluminum Liner, Add	28.90	
			For Stainless Steel Liner, Add	39.41	
			For 2" Wall Instead Of 1", Add	168.23	
			For 3" To 4" Wall Instead Of 1", Add	257.64	
23 51 16 00-0082	EA		18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	782.50	48.43
			For Aluminum Liner, Add	36.38	
			For Stainless Steel Liner, Add	49.61	
			For 2" Wall Instead Of 1", Add	210.53	
			For 3" To 4" Wall Instead Of 1", Add	321.85	
23 51 16 00-0083	EA		20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,040.58	59.87
			For Aluminum Liner, Add	49.01	
			For Stainless Steel Liner, Add	66.83	
			For 2" Wall Instead Of 1", Add	282.27	
			For 3" To 4" Wall Instead Of 1", Add	430.88	
23 51 16 00-0084	EA		22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,307.06	78.21
			For Aluminum Liner, Add	61.13	
			For Stainless Steel Liner, Add	83.36	
			For 2" Wall Instead Of 1", Add	353.01	
			For 3" To 4" Wall Instead Of 1", Add	539.29	
23 51 16 00-0085	EA		24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,501.91	82.66
			For Aluminum Liner, Add	71.24	
			For Stainless Steel Liner, Add	97.14	
			For 2" Wall Instead Of 1", Add	409.24	
			For 3" To 4" Wall Instead Of 1", Add	624.19	
23 51 16 00-0086	EA		26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,059.88	89.03
			For Aluminum Liner, Add	101.05	
			For Stainless Steel Liner, Add	137.79	
			For 2" Wall Instead Of 1", Add	573.43	
			For 3" To 4" Wall Instead Of 1", Add	871.28	
23 51 16 00-0087	EA		28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,298.07	92.52
			For Aluminum Liner, Add	113.68	
			For Stainless Steel Liner, Add	155.02	
			For 2" Wall Instead Of 1", Add	643.18	
			For 3" To 4" Wall Instead Of 1", Add	976.33	
23 51 16 00-0088	EA		30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,494.34	97.50
			For Aluminum Liner, Add	123.78	
			For Stainless Steel Liner, Add	168.80	
			For 2" Wall Instead Of 1", Add	699.55	
			For 3" To 4" Wall Instead Of 1", Add	1,061.52	
23 51 16 00-0089	EA		32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,872.33	101.74
			For Aluminum Liner, Add	143.99	
			For Stainless Steel Liner, Add	196.35	
			For 2" Wall Instead Of 1", Add	810.84	
			For 3" To 4" Wall Instead Of 1", Add	1,228.98	
23 51 16 00-0090	EA		34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,928.93	105.98
			For Aluminum Liner, Add	146.52	
			For Stainless Steel Liner, Add	199.80	
			For 2" Wall Instead Of 1", Add	825.69	
			For 3" To 4" Wall Instead Of 1", Add	1,251.78	
23 51 16 00-0091	EA		36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,406.04	113.08
			For Aluminum Liner, Add	171.78	
			For Stainless Steel Liner, Add	234.25	
			For 2" Wall Instead Of 1", Add	965.26	
			For 3" To 4" Wall Instead Of 1", Add	1,462.03	
23 51 16 00-0092	EA		38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,487.28	127.18
			For Aluminum Liner, Add	174.31	
			For Stainless Steel Liner, Add	237.69	
			For 2" Wall Instead Of 1", Add	982.57	
			For 3" To 4" Wall Instead Of 1", Add	1,489.76	
23 51 16 00-0093	EA		40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,808.25	145.40
			For Aluminum Liner, Add	189.46	
			For Stainless Steel Liner, Add	258.36	
			For 2" Wall Instead Of 1", Add	1,069.79	
			For 3" To 4" Wall Instead Of 1", Add	1,622.85	
23 51 16 00-0094	EA		42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,190.23	169.57
			For Aluminum Liner, Add	207.15	
			For Stainless Steel Liner, Add	282.47	
			For 2" Wall Instead Of 1", Add	1,172.29	
			For 3" To 4" Wall Instead Of 1", Add	1,779.62	
23 51 16 00-0095	EA		44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,564.36	190.76
			For Aluminum Liner, Add	224.83	
			For Stainless Steel Liner, Add	306.59	
			For 2" Wall Instead Of 1", Add	1,274.00	
			For 3" To 4" Wall Instead Of 1", Add	1,934.83	
23 51 16 00-0096	EA		46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,993.68	197.13
			For Aluminum Liner, Add	247.57	
			For Stainless Steel Liner, Add	337.59	
			For 2" Wall Instead Of 1", Add	1,399.61	
			For 3" To 4" Wall Instead Of 1", Add	2,124.04	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0097 EA 48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	5,285.33	203.48
For Aluminum Liner, Add	262.72	
For Stainless Steel Liner, Add	358.26	
For 2" Wall Instead Of 1", Add	1,483.89	
For 3" To 4" Wall Instead Of 1", Add	2,251.26	
23 51 16 00-0098 Vent Top Caps (23 51 16 00-0001)		
23 51 16 00-0099 EA 3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	51.10	14.73
For Aluminum Liner, Add	0.78	
For Stainless Steel Liner, Add	1.07	
For 2" Wall Instead Of 1", Add	7.96	
For 3" To 4" Wall Instead Of 1", Add	13.78	
23 51 16 00-0100 EA 4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	53.54	15.47
For Aluminum Liner, Add	0.82	
For Stainless Steel Liner, Add	1.12	
For 2" Wall Instead Of 1", Add	8.35	
For 3" To 4" Wall Instead Of 1", Add	14.45	
23 51 16 00-0101 EA 6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	68.39	16.96
For Aluminum Liner, Add	1.43	
For Stainless Steel Liner, Add	1.95	
For 2" Wall Instead Of 1", Add	12.04	
For 3" To 4" Wall Instead Of 1", Add	20.18	
23 51 16 00-0102 EA 8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	73.06	18.87
For Aluminum Liner, Add	1.43	
For Stainless Steel Liner, Add	1.95	
For 2" Wall Instead Of 1", Add	12.51	
For 3" To 4" Wall Instead Of 1", Add	21.11	
23 51 16 00-0103 EA 10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	88.12	19.92
For Aluminum Liner, Add	2.11	
For Stainless Steel Liner, Add	2.87	
For 2" Wall Instead Of 1", Add	16.47	
For 3" To 4" Wall Instead Of 1", Add	27.20	
23 51 16 00-0104 EA 12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	103.51	21.19
For Aluminum Liner, Add	2.78	
For Stainless Steel Liner, Add	3.79	
For 2" Wall Instead Of 1", Add	20.46	
For 3" To 4" Wall Instead Of 1", Add	33.33	
23 51 16 00-0105 EA 16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	237.81	24.17
For Aluminum Liner, Add	9.75	
For Stainless Steel Liner, Add	13.30	
For 2" Wall Instead Of 1", Add	59.24	
For 3" To 4" Wall Instead Of 1", Add	91.88	
23 51 16 00-0106 EA 18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	439.45	30.31
For Aluminum Liner, Add	20.01	
For Stainless Steel Liner, Add	27.28	
For 2" Wall Instead Of 1", Add	116.70	
For 3" To 4" Wall Instead Of 1", Add	178.83	
23 51 16 00-0107 EA 20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	807.35	36.35
For Aluminum Liner, Add	39.41	
For Stainless Steel Liner, Add	53.74	
For 2" Wall Instead Of 1", Add	224.04	
For 3" To 4" Wall Instead Of 1", Add	340.60	
23 51 16 00-0108 EA 24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	1,339.77	50.87
For Aluminum Liner, Add	66.69	
For Stainless Steel Liner, Add	90.94	
For 2" Wall Instead Of 1", Add	376.49	
For 3" To 4" Wall Instead Of 1", Add	571.10	
23 51 16 00-0109 EA 26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	1,971.04	53.52
For Aluminum Liner, Add	101.05	
For Stainless Steel Liner, Add	137.79	
For 2" Wall Instead Of 1", Add	564.55	
For 3" To 4" Wall Instead Of 1", Add	853.52	
23 51 16 00-0110 EA 28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,208.18	56.49
For Aluminum Liner, Add	113.68	
For Stainless Steel Liner, Add	155.02	
For 2" Wall Instead Of 1", Add	634.19	
For 3" To 4" Wall Instead Of 1", Add	958.36	
23 51 16 00-0111 EA 30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,492.15	59.87
For Aluminum Liner, Add	128.84	
For Stainless Steel Liner, Add	175.68	
For 2" Wall Instead Of 1", Add	717.71	
For 3" To 4" Wall Instead Of 1", Add	1,084.05	
23 51 16 00-0112 EA 32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,639.29	63.58
For Aluminum Liner, Add	136.41	
For Stainless Steel Liner, Add	186.02	
For 2" Wall Instead Of 1", Add	759.98	
For 3" To 4" Wall Instead Of 1", Add	1,147.92	
23 51 16 00-0113 EA 34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	2,787.67	67.83
For Aluminum Liner, Add	143.99	
For Stainless Steel Liner, Add	196.35	
For 2" Wall Instead Of 1", Add	802.38	
For 3" To 4" Wall Instead Of 1", Add	1,212.05	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0114	EA	36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,983.36	72.70
		For Aluminum Liner, Add	154.10	
		For Stainless Steel Liner, Add	210.13	
		For 2" Wall Instead Of 1", Add	858.69	
		For 3" To 4" Wall Instead Of 1", Add	1,297.11	
23 51 16 00-0115 Wall Thimbles (23 51 16 00-0001)				
23 51 16 00-0116	EA	3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	21.44	7.95
		For Aluminum Liner, Add	0.09	
		For Stainless Steel Liner, Add	0.12	
		For 2" Wall Instead Of 1", Add	2.47	
		For 3" To 4" Wall Instead Of 1", Add	4.70	
23 51 16 00-0117	EA	4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	27.21	10.17
		For Aluminum Liner, Add	0.09	
		For Stainless Steel Liner, Add	0.13	
		For 2" Wall Instead Of 1", Add	3.06	
		For 3" To 4" Wall Instead Of 1", Add	5.86	
23 51 16 00-0118	EA	5" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	36.25	13.67
		For Aluminum Liner, Add	0.11	
		For Stainless Steel Liner, Add	0.15	
		For 2" Wall Instead Of 1", Add	4.04	
		For 3" To 4" Wall Instead Of 1", Add	7.77	
23 51 16 00-0119	EA	7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	45.32	16.96
		For Aluminum Liner, Add	0.16	
		For Stainless Steel Liner, Add	0.22	
		For 2" Wall Instead Of 1", Add	5.12	
		For 3" To 4" Wall Instead Of 1", Add	9.80	
23 51 16 00-0120	EA	10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	64.76	22.89
		For Aluminum Liner, Add	0.41	
		For Stainless Steel Liner, Add	0.56	
		For 2" Wall Instead Of 1", Add	7.98	
		For 3" To 4" Wall Instead Of 1", Add	14.83	
23 51 16 00-0121	EA	12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	81.66	28.40
		For Aluminum Liner, Add	0.59	
		For Stainless Steel Liner, Add	0.80	
		For 2" Wall Instead Of 1", Add	10.30	
		For 3" To 4" Wall Instead Of 1", Add	19.00	
23 51 16 00-0122	EA	14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	102.85	33.92
		For Aluminum Liner, Add	0.99	
		For Stainless Steel Liner, Add	1.35	
		For 2" Wall Instead Of 1", Add	13.90	
		For 3" To 4" Wall Instead Of 1", Add	25.09	
23 51 16 00-0123	EA	18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	133.01	40.27
		For Aluminum Liner, Add	1.78	
		For Stainless Steel Liner, Add	2.42	
		For 2" Wall Instead Of 1", Add	19.77	
		For 3" To 4" Wall Instead Of 1", Add	34.68	
23 51 16 00-0124	EA	22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	176.27	44.51
		For Aluminum Liner, Add	3.58	
		For Stainless Steel Liner, Add	4.88	
		For 2" Wall Instead Of 1", Add	30.63	
		For 3" To 4" Wall Instead Of 1", Add	51.50	
23 51 16 00-0125 Adjustable Roof Flashing (23 51 16 00-0001)				
23 51 16 00-0126	EA	3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	57.62	18.87
		For Aluminum Liner, Add	0.58	
		For Stainless Steel Liner, Add	0.79	
		For 2" Wall Instead Of 1", Add	7.87	
		For 3" To 4" Wall Instead Of 1", Add	14.16	
23 51 16 00-0127	EA	4" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	63.50	19.92
		For Aluminum Liner, Add	0.75	
		For Stainless Steel Liner, Add	1.02	
		For 2" Wall Instead Of 1", Add	9.07	
		For 3" To 4" Wall Instead Of 1", Add	16.10	
23 51 16 00-0128	EA	6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	79.26	22.58
		For Aluminum Liner, Add	1.25	
		For Stainless Steel Liner, Add	1.71	
		For 2" Wall Instead Of 1", Add	12.48	
		For 3" To 4" Wall Instead Of 1", Add	21.55	
23 51 16 00-0129	EA	8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	96.32	26.07
		For Aluminum Liner, Add	1.71	
		For Stainless Steel Liner, Add	2.34	
		For 2" Wall Instead Of 1", Add	15.86	
		For 3" To 4" Wall Instead Of 1", Add	27.05	
23 51 16 00-0130	EA	10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	156.12	28.30
		For Aluminum Liner, Add	4.70	
		For Stainless Steel Liner, Add	6.41	
		For 2" Wall Instead Of 1", Add	32.70	
		For 3" To 4" Wall Instead Of 1", Add	52.58	
23 51 16 00-0131	EA	12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	185.44	30.84
		For Aluminum Liner, Add	5.96	
		For Stainless Steel Liner, Add	8.13	
		For 2" Wall Instead Of 1", Add	40.22	
		For 3" To 4" Wall Instead Of 1", Add	64.19	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0132 EA 14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	217.99	33.92
For Aluminum Liner, Add	7.33	
For Stainless Steel Liner, Add	9.99	
For 2" Wall Instead Of 1", Add	48.44	
For 3" To 4" Wall Instead Of 1", Add	76.90	
23 51 16 00-0133 EA 16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	259.68	37.73
For Aluminum Liner, Add	9.09	
For Stainless Steel Liner, Add	12.40	
For 2" Wall Instead Of 1", Add	59.04	
For 3" To 4" Wall Instead Of 1", Add	93.27	
23 51 16 00-0134 EA 18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	390.80	42.39
For Aluminum Liner, Add	15.66	
For Stainless Steel Liner, Add	21.36	
For 2" Wall Instead Of 1", Add	96.03	
For 3" To 4" Wall Instead Of 1", Add	149.35	
23 51 16 00-0135 EA 20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	431.58	56.49
For Aluminum Liner, Add	15.97	
For Stainless Steel Liner, Add	21.77	
For 2" Wall Instead Of 1", Add	101.21	
For 3" To 4" Wall Instead Of 1", Add	158.89	
23 51 16 00-0136 EA 22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	549.16	72.70
For Aluminum Liner, Add	20.21	
For Stainless Steel Liner, Add	27.56	
For 2" Wall Instead Of 1", Add	128.40	
For 3" To 4" Wall Instead Of 1", Add	201.69	
23 51 16 00-0137 EA 24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	652.89	84.79
For Aluminum Liner, Add	24.25	
For Stainless Steel Liner, Add	33.07	
For 2" Wall Instead Of 1", Add	153.48	
For 3" To 4" Wall Instead Of 1", Add	240.81	
23 51 16 00-0138 Galvanized Storm Collars (23 51 16 00-0001)		
23 51 16 00-0139 EA 3" Round Galvanized Storm Collar, Double Wall	22.86	7.95
For Aluminum Liner, Add	0.17	
For Stainless Steel Liner, Add	0.23	
For 2" Wall Instead Of 1", Add	2.90	
For 3" To 4" Wall Instead Of 1", Add	5.33	
23 51 16 00-0140 EA 4" Round Galvanized Storm Collar, Double Wall	28.93	10.17
For Aluminum Liner, Add	0.19	
For Stainless Steel Liner, Add	0.26	
For 2" Wall Instead Of 1", Add	3.59	
For 3" To 4" Wall Instead Of 1", Add	6.66	
23 51 16 00-0141 EA 5" Round Galvanized Storm Collar, Double Wall	34.03	11.87
For Aluminum Liner, Add	0.24	
For Stainless Steel Liner, Add	0.33	
For 2" Wall Instead Of 1", Add	4.27	
For 3" To 4" Wall Instead Of 1", Add	7.89	
23 51 16 00-0142 EA 6" Round Galvanized Storm Collar, Double Wall	39.15	13.56
For Aluminum Liner, Add	0.29	
For Stainless Steel Liner, Add	0.39	
For 2" Wall Instead Of 1", Add	4.96	
For 3" To 4" Wall Instead Of 1", Add	9.14	
23 51 16 00-0143 EA 7" Or 8" Round Galvanized Storm Collar, Double Wall	49.35	16.96
For Aluminum Liner, Add	0.38	
For Stainless Steel Liner, Add	0.52	
For 2" Wall Instead Of 1", Add	6.33	
For 3" To 4" Wall Instead Of 1", Add	11.61	
23 51 16 00-0144 EA 10" Round Galvanized Storm Collar, Double Wall	68.13	22.89
For Aluminum Liner, Add	0.60	
For Stainless Steel Liner, Add	0.82	
For 2" Wall Instead Of 1", Add	8.99	
For 3" To 4" Wall Instead Of 1", Add	16.35	
23 51 16 00-0145 EA 12" Round Galvanized Storm Collar, Double Wall	84.11	28.40
For Aluminum Liner, Add	0.72	
For Stainless Steel Liner, Add	0.98	
For 2" Wall Instead Of 1", Add	11.03	
For 3" To 4" Wall Instead Of 1", Add	20.10	
23 51 16 00-0146 EA 14" Or 16" Round Galvanized Storm Collar, Double Wall	107.02	33.92
For Aluminum Liner, Add	1.22	
For Stainless Steel Liner, Add	1.67	
For 2" Wall Instead Of 1", Add	15.15	
For 3" To 4" Wall Instead Of 1", Add	26.96	
23 51 16 00-0147 EA 18" Or 20" Round Galvanized Storm Collar, Double Wall	140.93	40.27
For Aluminum Liner, Add	2.21	
For Stainless Steel Liner, Add	3.02	
For 2" Wall Instead Of 1", Add	22.14	
For 3" To 4" Wall Instead Of 1", Add	38.25	
23 51 16 00-0148 EA 22" Or 24" Round Galvanized Storm Collar, Double Wall	196.07	44.51
For Aluminum Liner, Add	4.66	
For Stainless Steel Liner, Add	6.36	
For 2" Wall Instead Of 1", Add	36.57	
For 3" To 4" Wall Instead Of 1", Add	60.41	

23 51 16 00-0149 Oval Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0150 Oval Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0149)		
23 51 16 00-0151 LF 4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	38.09 6.45 10.91	9.96
23 51 16 00-0152 LF 5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	41.94 7.32 12.30	10.60
23 51 16 00-0153 LF 6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	46.43 8.27 13.82	11.34
23 51 16 00-0154 45 Degree Elbows (23 51 16 00-0149)		
23 51 16 00-0155 EA 4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	83.26 14.64 24.54	20.67
23 51 16 00-0156 EA 5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	97.15 17.06 28.62	24.17
23 51 16 00-0157 EA 6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	115.49 20.97 34.88	27.34
23 51 16 00-0158 EA 4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	84.84 15.11 25.25	20.67
23 51 16 00-0159 EA 5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	100.99 18.22 30.34	24.17
23 51 16 00-0160 EA 6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	117.97 21.72 35.99	27.34
23 51 16 00-0161 Tees (23 51 16 00-0149)		
23 51 16 00-0162 EA 4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	138.69 25.91 42.79	31.37
23 51 16 00-0163 EA 4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	141.17 26.65 43.90	31.37
23 51 16 00-0164 EA 5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	162.23 30.65 50.48	36.03
23 51 16 00-0165 EA 6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	185.46 35.45 58.22	40.38
23 51 16 00-0166 Tops/Caps And Adjustable Flashing (23 51 16 00-0149)		
23 51 16 00-0167 EA 4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	52.81 10.74 17.38	10.17
23 51 16 00-0168 EA 6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	82.09 17.79 28.39	13.67
23 51 16 00-0169 EA 4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	43.11 7.83 13.02	10.17
23 51 16 00-0170 EA 6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	72.96 15.05 24.28	13.67
23 51 16 00-0171 Storm Collars (23 51 16 00-0149)		
23 51 16 00-0172 EA 4" Oval Galvanized Storm Collar, Double Wall For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	28.93 3.59 6.66	10.17
23 51 16 00-0173 EA 5" Oval Galvanized Storm Collar, Double Wall For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	34.03 4.27 7.89	11.87
23 51 16 00-0174 EA 6" Oval Galvanized Storm Collar, Double Wall For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	39.15 4.96 9.14	13.56
23 51 16 00-0175 Round Double Wall Flue/Vent Pipe And Fittings (23 51 16)		
Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.		
23 51 16 00-0176 Round Double Wall Flue/Vent Pipe (23 51 16 00-0175)		
Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0177	LF		6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	86.33	11.34
			For 316 Stainless Steel, Add	9.28	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	5.80	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	11.60	
23 51 16 00-0178	LF		8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	103.47	13.04
			For 316 Stainless Steel, Add	11.33	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	7.08	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	14.16	
23 51 16 00-0179	LF		10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	114.64	14.09
			For 316 Stainless Steel, Add	12.70	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	7.94	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	15.87	
23 51 16 00-0180	LF		12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	128.98	15.37
			For 316 Stainless Steel, Add	14.47	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	9.05	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	18.09	
23 51 16 00-0181	LF		14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	144.48	16.10
			For 316 Stainless Steel, Add	16.66	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	10.41	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	20.82	
23 51 16 00-0182	LF		16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	152.55	16.96
			For 316 Stainless Steel, Add	17.61	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	11.01	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	22.02	
23 51 16 00-0183	LF		18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	168.40	17.91
			For 316 Stainless Steel, Add	19.80	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	12.37	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	24.75	
23 51 16 00-0184	LF		20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	212.34	28.30
			For 316 Stainless Steel, Add	22.66	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	14.17	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	28.33	
23 51 16 00-0185	LF		24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	262.12	31.80
			For 316 Stainless Steel, Add	29.22	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	18.26	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	36.52	
23 51 16 00-0186	LF		28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	294.65	33.92
			For 316 Stainless Steel, Add	33.59	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	20.99	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	41.98	
23 51 16 00-0187	LF		32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	329.62	37.63
			For 316 Stainless Steel, Add	37.68	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	23.55	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	47.10	
23 51 16 00-0188	LF		36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	366.13	40.69
			For 316 Stainless Steel, Add	42.32	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	26.45	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	52.90	
23 51 16 00-0189	LF		42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	417.95	46.31
			For 316 Stainless Steel, Add	48.33	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	30.21	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	60.41	
23 51 16 00-0190	LF		48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	489.05	53.62
			For 316 Stainless Steel, Add	56.80	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	35.50	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	71.00	
23 51 16 00-0191			90 Degree Elbows (23 51 16 00-0175)		
23 51 16 00-0192	EA		6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	387.91	23.42
			For 316 Stainless Steel, Add	65.88	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	32.94	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	65.88	
23 51 16 00-0193	EA		8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	428.68	26.07
			For 316 Stainless Steel, Add	72.70	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	36.35	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	72.70	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0194	EA		10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	487.13	28.30
			For 316 Stainless Steel, Add	83.28	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	41.64	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	83.28	
23 51 16 00-0195	EA		12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	549.78	30.84
			For 316 Stainless Steel, Add	94.55	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	47.27	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	94.55	
23 51 16 00-0196	EA		14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	635.41	32.32
			For 316 Stainless Steel, Add	110.93	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	55.47	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	110.93	
23 51 16 00-0197	EA		16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	699.15	33.92
			For 316 Stainless Steel, Add	122.88	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	61.44	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	122.88	
23 51 16 00-0198	EA		18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	806.01	35.72
			For 316 Stainless Steel, Add	143.36	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	71.68	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	143.36	
23 51 16 00-0199	EA		20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	943.42	56.49
			For 316 Stainless Steel, Add	160.42	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	80.21	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	160.42	
23 51 16 00-0200	EA		24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,157.33	63.58
			For 316 Stainless Steel, Add	199.67	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	99.84	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	199.67	
23 51 16 00-0201	EA		28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,398.33	67.83
			For 316 Stainless Steel, Add	245.75	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	122.88	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	245.75	
23 51 16 00-0202	EA		32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,837.02	72.60
			For 316 Stainless Steel, Add	331.08	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	165.54	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	331.08	
23 51 16 00-0203	EA		36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,089.23	84.79
			For 316 Stainless Steel, Add	375.45	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	187.73	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	375.45	
23 51 16 00-0204	EA		42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,047.08	92.52
			For 316 Stainless Steel, Add	563.18	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	281.59	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	563.18	
23 51 16 00-0205	EA		48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,795.57	101.74
			For 316 Stainless Steel, Add	708.24	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	354.12	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	708.24	
23 51 16 00-0206			45 Degree Elbows (23 51 16 00-0175)		
23 51 16 00-0207	EA		6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	262.99	22.58
			For 316 Stainless Steel, Add	41.30	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	20.65	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	41.30	
23 51 16 00-0208	EA		8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	300.68	26.07
			For 316 Stainless Steel, Add	47.10	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	23.55	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	47.10	
23 51 16 00-0209	EA		10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	333.52	28.30
			For 316 Stainless Steel, Add	52.56	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	26.28	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	52.56	
23 51 16 00-0210	EA		12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	379.13	30.84
			For 316 Stainless Steel, Add	60.41	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	30.21	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	60.41	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0211	EA		14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	425.50	32.32
			For 316 Stainless Steel, Add	68.95	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	34.47	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	68.95	
23 51 16 00-0212	EA		16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	475.58	33.92
			For 316 Stainless Steel, Add	78.16	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	39.08	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	78.16	
23 51 16 00-0213	EA		18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	531.24	35.72
			For 316 Stainless Steel, Add	88.40	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	44.20	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	88.40	
23 51 16 00-0214	EA		20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	646.48	56.49
			For 316 Stainless Steel, Add	101.03	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	50.52	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	101.03	
23 51 16 00-0215	EA		24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	807.48	63.58
			For 316 Stainless Steel, Add	129.70	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	64.85	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	129.70	
23 51 16 00-0216	EA		28" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	903.41	67.83
			For 316 Stainless Steel, Add	146.77	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	73.38	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	146.77	
23 51 16 00-0217	EA		32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,162.91	72.60
			For 316 Stainless Steel, Add	196.26	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	98.13	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	196.26	
23 51 16 00-0218	EA		36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,534.58	84.79
			For 316 Stainless Steel, Add	264.52	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	132.26	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	264.52	
23 51 16 00-0219	EA		42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,023.11	92.52
			For 316 Stainless Steel, Add	358.39	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	179.19	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	358.39	
23 51 16 00-0220	EA		48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,686.29	101.74
			For 316 Stainless Steel, Add	486.38	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	243.19	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	486.38	
23 51 16 00-0221			Tees (23 51 16 00-0175)		
23 51 16 00-0222	EA		6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	287.46	28.30
			For 316 Stainless Steel, Add	47.68	
			For Tee Cap, Add	68.10	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	21.67	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	43.35	
23 51 16 00-0223	EA		8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	326.22	30.84
			For 316 Stainless Steel, Add	54.82	
			For Tee Cap, Add	76.80	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	24.92	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	49.83	
23 51 16 00-0224	EA		10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	372.56	32.32
			For 316 Stainless Steel, Add	64.20	
			For Tee Cap, Add	86.62	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	29.18	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	58.37	
23 51 16 00-0225	EA		12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	426.08	33.92
			For 316 Stainless Steel, Add	75.09	
			For Tee Cap, Add	97.93	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	34.13	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	68.26	
23 51 16 00-0226	EA		14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	496.96	37.73
			For 316 Stainless Steel, Add	88.61	
			For Tee Cap, Add	113.52	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	40.28	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	80.55	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0227	EA		16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	558.17	42.39
			For 316 Stainless Steel, Add	99.50	
			For Tee Cap, Add	127.52	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	45.23	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	90.45	
23 51 16 00-0228	EA		18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	650.08	48.43
			For 316 Stainless Steel, Add	116.39	
			For Tee Cap, Add	148.17	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	52.91	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	105.81	
23 51 16 00-0229	EA		20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	746.93	59.87
			For 316 Stainless Steel, Add	131.41	
			For Tee Cap, Add	171.83	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	59.73	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	119.46	
23 51 16 00-0230	EA		24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	954.34	84.79
			For 316 Stainless Steel, Add	163.32	
			For Tee Cap, Add	222.66	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	74.24	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	148.48	
23 51 16 00-0231	EA		28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,152.74	92.52
			For 316 Stainless Steel, Add	202.75	
			For Tee Cap, Add	265.22	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	92.16	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	184.31	
23 51 16 00-0232	EA		32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,517.24	101.74
			For 316 Stainless Steel, Add	277.84	
			For Tee Cap, Add	341.60	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	126.29	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	252.58	
23 51 16 00-0233	EA		36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,690.71	113.08
			For 316 Stainless Steel, Add	309.75	
			For Tee Cap, Add	380.56	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	140.80	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	281.59	
23 51 16 00-0234	EA		42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,685.18	169.57
			For 316 Stainless Steel, Add	497.48	
			For Tee Cap, Add	600.62	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	226.13	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	452.25	
23 51 16 00-0235	EA		48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,367.31	203.48
			For 316 Stainless Steel, Add	628.89	
			For Tee Cap, Add	749.77	
			For 2" Insulated Wall Instead Of 1" Thickness, Add	285.86	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	571.71	
23 51 16 00-0236			Bellows (23 51 16 00-0175)		
23 51 16 00-0237	EA		6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	524.10	22.58
			For 2" Insulated Wall Instead Of 1" Thickness, Add	46.76	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	93.52	
23 51 16 00-0238	EA		8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	572.03	26.07
			For 2" Insulated Wall Instead Of 1" Thickness, Add	50.69	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	101.37	
23 51 16 00-0239	EA		10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	625.37	28.30
			For 2" Insulated Wall Instead Of 1" Thickness, Add	55.47	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	110.93	
23 51 16 00-0240	EA		12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	691.43	30.84
			For 2" Insulated Wall Instead Of 1" Thickness, Add	61.44	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	122.88	
23 51 16 00-0241	EA		14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	771.94	32.32
			For 2" Insulated Wall Instead Of 1" Thickness, Add	69.12	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	138.24	
23 51 16 00-0242	EA		16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	852.74	33.92
			For 2" Insulated Wall Instead Of 1" Thickness, Add	76.80	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	153.59	
23 51 16 00-0243	EA		18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	951.07	35.72
			For 2" Insulated Wall Instead Of 1" Thickness, Add	86.18	
			For 3" Insulated Wall Instead Of 1" Thickness, Add	172.37	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Breechings, Chimneys, And Stacks

23 51**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0244 EA 20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	1,114.07 97.28 194.55	56.49
23 51 16 00-0245 EA 24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	1,370.67 121.17 242.34	63.58
23 51 16 00-0246 EA 28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	1,534.88 136.53 273.06	67.83
23 51 16 00-0247 EA 32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	1,751.80 157.01 314.02	72.70
23 51 16 00-0248 EA 36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	2,003.91 179.19 358.39	84.79
23 51 16 00-0249 EA 42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	2,535.11 230.39 460.78	92.52
23 51 16 00-0250 EA 48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	3,070.28 281.59 563.18	101.74
23 51 16 00-0251 Ventilated Roof Thimbles (23 51 16 00-0175)		
23 51 16 00-0252 EA 6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	355.33 29.01	26.07
23 51 16 00-0253 EA 8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	387.65 31.06	30.84
23 51 16 00-0254 EA 10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	424.37 33.96	33.92
23 51 16 00-0255 EA 12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	459.48 36.52	37.73
23 51 16 00-0256 EA 14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	579.33 47.96	39.95
23 51 16 00-0257 EA 16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	522.37 41.64	42.39
23 51 16 00-0258 EA 18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	561.93 44.88	45.26
23 51 16 00-0259 EA 20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	640.24 48.13	63.58
23 51 16 00-0260 EA 24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	719.06 53.76	72.60
23 51 16 00-0261 EA 28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	818.45 62.29	78.21
23 51 16 00-0262 EA 32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	911.53 69.97	84.67
23 51 16 00-0263 EA 36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	1,022.16 76.80	101.63
23 51 16 00-0264 EA 42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	1,297.92 101.54	112.97
23 51 16 00-0265 EA 48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket For 316 Stainless Steel, Add	1,597.69 128.00	127.07
23 51 16 00-0266 Exit Cones (23 51 16 00-0175)		
23 51 16 00-0267 EA 6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 23 51 16 00-0268 EA 8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 23 51 16 00-0269 EA 10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket 23 51 16 00-0270 EA 12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	243.40 257.12 276.19 288.67	14.73 16.10 16.96 17.80

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0271 EA 14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	317.16	18.34
23 51 16 00-0272 EA 16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	345.68	18.76
23 51 16 00-0273 EA 18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	417.03	19.39
23 51 16 00-0274 EA 20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	529.45	36.35
23 51 16 00-0275 EA 24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	660.99	39.11
23 51 16 00-0276 EA 28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	784.39	40.69
23 51 16 00-0277 EA 32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	959.31	42.39
23 51 16 00-0278 EA 36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,088.43	46.31
23 51 16 00-0279 EA 42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,366.99	48.43
23 51 16 00-0280 EA 48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,739.94	50.87
23 51 16 00-0281 Vent Top Caps (23 51 16 00-0175)		
23 51 16 00-0282 EA 6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	265.50	14.73
23 51 16 00-0283 EA 8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	306.61	16.10
23 51 16 00-0284 EA 10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	354.66	16.96
23 51 16 00-0285 EA 12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	406.39	17.80
23 51 16 00-0286 EA 14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	472.42	18.34
23 51 16 00-0287 EA 16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	535.17	18.87
23 51 16 00-0288 EA 18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	594.55	19.39
23 51 16 00-0289 EA 20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	722.21	36.35
23 51 16 00-0290 EA 24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	857.24	39.11
23 51 16 00-0291 EA 28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	929.40	40.69
23 51 16 00-0292 EA 32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,053.10	42.39
23 51 16 00-0293 EA 36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,224.83	46.20
23 51 16 00-0294 EA 42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,486.38	48.43
23 51 16 00-0295 EA 48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,722.79	50.87
23 51 16 00-0296 Roof Support Assemblies (23 51 16 00-0175)		
23 51 16 00-0297 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	403.94	27.13
For 316 Stainless Steel, Add	67.24	
23 51 16 00-0298 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	447.68	32.32
For 316 Stainless Steel, Add	73.38	
23 51 16 00-0299 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	491.93	35.72
For 316 Stainless Steel, Add	80.55	
23 51 16 00-0300 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	526.32	39.85
For 316 Stainless Steel, Add	85.33	
23 51 16 00-0301 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	585.54	42.39
For 316 Stainless Steel, Add	95.91	
23 51 16 00-0302 EA 16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	621.63	45.26
For 316 Stainless Steel, Add	101.71	
23 51 16 00-0303 EA 18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	667.35	48.53
For 316 Stainless Steel, Add	109.22	
23 51 16 00-0304 EA 20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	749.82	67.83
For 316 Stainless Steel, Add	116.05	
23 51 16 00-0305 EA 24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	844.19	78.32
For 316 Stainless Steel, Add	129.70	
23 51 16 00-0306 EA 28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	971.40	84.79
For 316 Stainless Steel, Add	151.89	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central Heating Equipment			23 50
Breechings, Chimneys, And Stacks			23 51

23

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
23 51 16 00-0307	EA	32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,152.76		92.52
		For 316 Stainless Steel, Add	184.31		
23 51 16 00-0308	EA	36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,340.86		113.08
		For 316 Stainless Steel, Add	211.62		
23 51 16 00-0309	EA	42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,973.33		127.18
		For 316 Stainless Steel, Add	331.08		
23 51 16 00-0310	EA	48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,409.39		144.56
		For 316 Stainless Steel, Add	409.59		
23 51 16 00-0311		Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings (23 51 16)			
		Note: With 1" insulation.			
23 51 16 00-0312		Round Stainless Steel Double Wall Flue/Vent Pipe (23 51 16 00-0311)			
		Note: With 1" insulation.			
23 51 16 00-0313	LF	6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	76.10		11.34
		For 2" Insulated Wall Instead Of 1" Thickness, Add	4.78		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	9.56		
23 51 16 00-0314	LF	7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	91.74		12.08
		For 2" Insulated Wall Instead Of 1" Thickness, Add	6.14		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	12.29		
23 51 16 00-0315	LF	8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	104.33		13.04
		For 2" Insulated Wall Instead Of 1" Thickness, Add	7.17		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	14.34		
23 51 16 00-0316	LF	10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	139.33		14.09
		For 2" Insulated Wall Instead Of 1" Thickness, Add	10.41		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	20.82		
23 51 16 00-0317	LF	12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	178.51		15.47
		For 2" Insulated Wall Instead Of 1" Thickness, Add	13.99		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	27.99		
23 51 16 00-0318	LF	14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	224.78		16.22
		For 2" Insulated Wall Instead Of 1" Thickness, Add	18.43		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	36.86		
23 51 16 00-0319		90 Degree Elbows (23 51 16 00-0311)			
23 51 16 00-0320	EA	6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	163.19		22.58
		For 2" Insulated Wall Instead Of 1" Thickness, Add	10.67		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	21.33		
23 51 16 00-0321	EA	7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	179.97		24.17
		For 2" Insulated Wall Instead Of 1" Thickness, Add	11.95		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	23.89		
23 51 16 00-0322	EA	8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	201.73		26.07
		For 2" Insulated Wall Instead Of 1" Thickness, Add	13.65		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	27.31		
23 51 16 00-0323	EA	10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	248.18		28.30
		For 2" Insulated Wall Instead Of 1" Thickness, Add	17.75		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	35.50		
23 51 16 00-0324	EA	12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	293.80		30.84
		For 2" Insulated Wall Instead Of 1" Thickness, Add	21.67		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	43.35		
23 51 16 00-0325	EA	14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	340.11		32.32
		For 2" Insulated Wall Instead Of 1" Thickness, Add	25.94		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	51.88		
23 51 16 00-0326		45 Degree Elbows (23 51 16 00-0311)			
23 51 16 00-0327	EA	6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	136.54		22.58
		For 2" Insulated Wall Instead Of 1" Thickness, Add	8.00		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	16.00		
23 51 16 00-0328	EA	7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	150.11		24.17
		For 2" Insulated Wall Instead Of 1" Thickness, Add	8.96		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	17.92		
23 51 16 00-0329	EA	8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	167.62		26.07
		For 2" Insulated Wall Instead Of 1" Thickness, Add	10.24		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	20.48		
23 51 16 00-0330	EA	10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	203.81		28.30
		For 2" Insulated Wall Instead Of 1" Thickness, Add	13.31		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	26.62		
23 51 16 00-0331	EA	12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	239.59		30.84
		For 2" Insulated Wall Instead Of 1" Thickness, Add	16.26		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	32.51		
23 51 16 00-0332	EA	14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	275.31		32.32
		For 2" Insulated Wall Instead Of 1" Thickness, Add	19.46		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	38.91		
23 51 16 00-0333		Tees With Tee Caps (23 51 16 00-0311)			
23 51 16 00-0334	EA	6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	257.86		22.58
		For 2" Insulated Wall Instead Of 1" Thickness, Add	20.14		
		For 3" Insulated Wall Instead Of 1" Thickness, Add	40.28		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0335 EA 7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	323.34 26.28 52.56	24.17
23 51 16 00-0336 EA 8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	362.13 29.70 59.39	26.07
23 51 16 00-0337 EA 10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	488.74 41.81 83.62	28.30
23 51 16 00-0338 EA 12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	665.80 58.88 117.76	30.84
23 51 16 00-0339 EA 14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... For 2" Insulated Wall Instead Of 1" Thickness, Add For 3" Insulated Wall Instead Of 1" Thickness, Add	848.65 76.80 153.59	32.32
23 51 16 00-0340 Joist Shields (23 51 16 00-0311)		
23 51 16 00-0341 EA 6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	117.93	22.58
23 51 16 00-0342 EA 7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	127.08	24.17
23 51 16 00-0343 EA 8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	147.10	26.07
23 51 16 00-0344 EA 10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	180.81	28.30
23 51 16 00-0345 EA 12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	214.43	30.84
23 51 16 00-0346 EA 14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	251.37	32.32
23 51 16 00-0347 Adjustable Roof Flashing (23 51 16 00-0311)		
23 51 16 00-0348 EA 6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	137.55	22.58
23 51 16 00-0349 EA 7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	152.67	24.17
23 51 16 00-0350 EA 8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	165.85	26.07
23 51 16 00-0351 EA 10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	199.55	28.30
23 51 16 00-0352 EA 12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	243.51	30.84
23 51 16 00-0353 EA 14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	288.88	32.22
23 51 16 00-0354 Vent Top Caps (23 51 16 00-0311)		
23 51 16 00-0355 EA 6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	124.75	22.58
23 51 16 00-0356 EA 7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	153.52	24.17
23 51 16 00-0357 EA 8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	189.75	26.07
23 51 16 00-0358 EA 10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	294.31	28.30
23 51 16 00-0359 EA 12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	396.24	30.84
23 51 16 00-0360 EA 14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	500.56	32.32
23 51 16 00-0361 Roof Support Assemblies (23 51 16 00-0311)		
23 51 16 00-0362 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	178.43	22.58
23 51 16 00-0363 EA 7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	197.89	24.17
23 51 16 00-0364 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	214.49	26.07
23 51 16 00-0365 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	266.90	28.30
23 51 16 00-0366 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	314.28	30.84
23 51 16 00-0367 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	381.09	32.32
23 51 16 00-0368 Polyvinyl Chloride (PVC) Flue/Vent Accessories (23 51 16)		
23 51 16 00-0369 Concentric Polyvinyl Chloride (PVC) Vent Termination (23 51 16 00-0368)		
23 51 16 00-0370 EA 2" Concentric Polyvinyl Chloride (PVC) Vent Termination	160.28	43.18
23 51 16 00-0371 EA 3" Concentric Polyvinyl Chloride (PVC) Vent Termination	170.84	43.18
23 51 16 00-0372 Polypropylene (PP) Flue/Vent Pipe And Fittings (23 51 16)		
Note: Centrotherm InnoFlue® Vent System		
23 51 16 00-0373 Polypropylene Flue/Vent Rigid Pipe Sections (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.		
23 51 16 00-0374 EA 2" x 12" Polypropylene Flue/Vent Rigid Pipe Section	36.91	13.11
23 51 16 00-0375 EA 2" x 24" Polypropylene Flue/Vent Rigid Pipe Section	40.82	13.80
23 51 16 00-0376 EA 2" x 36" Polypropylene Flue/Vent Rigid Pipe Section	46.28	15.33
23 51 16 00-0377 EA 3" x 12" Polypropylene Flue/Vent Rigid Pipe Section	56.44	18.03
23 51 16 00-0378 EA 3" x 24" Polypropylene Flue/Vent Rigid Pipe Section	43.61	15.03
23 51 16 00-0379 EA 3" x 36" Polypropylene Flue/Vent Rigid Pipe Section	50.24	15.82
23 51 16 00-0380 EA 4" x 12" Polypropylene Flue/Vent Rigid Pipe Section	59.75	17.58
23 51 16 00-0381 EA 4" x 24" Polypropylene Flue/Vent Rigid Pipe Section	72.80	20.68
23 51 16 00-0382 EA 4" x 36" Polypropylene Flue/Vent Rigid Pipe Section	66.95	19.88
23 51 16 00-0383 EA 5" x 12" Polypropylene Flue/Vent Rigid Pipe Section	76.43	20.92
23 51 16 00-0384 EA 5" x 24" Polypropylene Flue/Vent Rigid Pipe Section	92.17	23.25
23 51 16 00-0385 EA 5" x 36" Polypropylene Flue/Vent Rigid Pipe Section	116.56	27.35
23 51 16 00-0386 EA 6" x 12" Polypropylene Flue/Vent Rigid Pipe Section	99.16	29.34
23 51 16 00-0387 EA 6" x 24" Polypropylene Flue/Vent Rigid Pipe Section	110.64	30.88
23 51 16 00-0388 EA 6" x 36" Polypropylene Flue/Vent Rigid Pipe Section	137.80	34.32
23 51 16 00-0389 EA 8" x 12" Polypropylene Flue/Vent Rigid Pipe Section	174.75	40.38

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0390 Polypropylene Flue/Vent Elbows (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0391 EA 2" Polypropylene Flue/Vent 15 Degree Elbow.....	45.35	15.93
23 51 16 00-0392 EA 3" Polypropylene Flue/Vent 15 Degree Elbow.....	51.11	16.77
23 51 16 00-0393 EA 4" Polypropylene Flue/Vent 15 Degree Elbow.....	60.13	17.38
23 51 16 00-0394 EA 5" Polypropylene Flue/Vent 15 Degree Elbow.....	67.65	18.10
23 51 16 00-0395 EA 2" Polypropylene Flue/Vent 30 Degree Elbow.....	45.35	15.93
23 51 16 00-0396 EA 3" Polypropylene Flue/Vent 30 Degree Elbow.....	51.11	16.77
23 51 16 00-0397 EA 4" Polypropylene Flue/Vent 30 Degree Elbow.....	60.13	17.38
23 51 16 00-0398 EA 5" Polypropylene Flue/Vent 30 Degree Elbow.....	67.65	18.10
23 51 16 00-0399 EA 2" Polypropylene Flue/Vent 45 Degree Elbow.....	45.35	15.93
23 51 16 00-0400 EA 3" Polypropylene Flue/Vent 45 Degree Elbow.....	51.11	16.77
23 51 16 00-0401 EA 4" Polypropylene Flue/Vent 45 Degree Elbow.....	60.13	17.38
23 51 16 00-0402 EA 5" Polypropylene Flue/Vent 45 Degree Elbow.....	67.65	18.10
23 51 16 00-0403 EA 2" Polypropylene Flue/Vent 87 Degree Elbow.....	45.35	15.93
23 51 16 00-0404 EA 3" Polypropylene Flue/Vent 87 Degree Elbow.....	51.11	16.77
23 51 16 00-0405 EA 4" Polypropylene Flue/Vent 87 Degree Elbow.....	59.61	17.38
23 51 16 00-0406 EA 5" Polypropylene Flue/Vent 87 Degree Elbow.....	68.93	18.10
23 51 16 00-0407 Polypropylene Flue/Vent Tees (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0408 EA 2" Polypropylene Flue/Vent Tee.....	114.36	23.90
23 51 16 00-0409 EA 3" Polypropylene Flue/Vent Tee.....	138.62	25.16
23 51 16 00-0410 EA 4" Polypropylene Flue/Vent Tee.....	159.09	26.07
23 51 16 00-0411 EA 5" Polypropylene Flue/Vent Tee.....	172.62	27.13
23 51 16 00-0412 Polypropylene Flue/Vent Adaptors (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0413 EA 2" Polypropylene Flue/Vent Adaptor With Gasket.....	50.41	15.93
23 51 16 00-0414 EA 3" Polypropylene Flue/Vent Adaptor With Gasket.....	65.84	16.77
23 51 16 00-0415 EA 4" Polypropylene Flue/Vent Adaptor With Gasket.....	74.39	17.38
23 51 16 00-0416 EA 5" Polypropylene Flue/Vent Adaptor With Gasket.....	95.53	18.10
23 51 16 00-0417 Polypropylene Flue/Vent Increases (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0418 EA 2" to 3" Polypropylene Flue/Vent Centric Increaser.....	54.47	16.36
23 51 16 00-0419 EA 3" to 4" Polypropylene Flue/Vent Centric Increaser.....	58.78	17.07
23 51 16 00-0420 EA 4" to 5" Polypropylene Flue/Vent Centric Increaser.....	92.06	17.73
23 51 16 00-0421 EA 2" to 3" Polypropylene Flue/Vent Eccentric Increaser.....	67.45	16.36
23 51 16 00-0422 EA 3" to 4" Polypropylene Flue/Vent Eccentric Increaser.....	57.72	17.07
23 51 16 00-0423 EA 4" to 5" Polypropylene Flue/Vent Eccentric Increaser.....	119.78	17.73
23 51 16 00-0424 Polypropylene Flue/Vent Reducers (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0425 EA 3" to 2" Polypropylene Flue/Vent Reducer.....	54.47	16.36
23 51 16 00-0426 EA 4" to 3" Polypropylene Flue/Vent Reducer.....	58.78	17.07
23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer.....	109.34	17.73
23 51 16 00-0428 Polypropylene Flue/Vent Test Ports (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port.....	72.43	23.90
23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port.....	79.51	25.16
23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port.....	108.59	26.07
23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port.....	115.20	27.13
23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	161.42	26.07
23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	209.76	32.59
23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	138.77	27.13
23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	198.94	33.92
23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve.....	188.93	17.07
23 51 16 00-0439 EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve.....	216.59	17.73
23 51 16 00-0440 Polypropylene Flue/Vent Condensate Management (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0441 EA 2" Polypropylene Flue/Vent Horizontal Drain Tee.....	89.96	23.90
23 51 16 00-0442 EA 3" Polypropylene Flue/Vent Horizontal Drain Tee.....	104.79	25.16
23 51 16 00-0443 EA 4" Polypropylene Flue/Vent Horizontal Drain Tee.....	117.13	26.07
23 51 16 00-0444 EA 5" Polypropylene Flue/Vent Horizontal Drain Tee.....	130.89	27.13
23 51 16 00-0445 EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings.....	140.85	26.07
23 51 16 00-0446 EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings.....	153.58	27.13

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0447 EA 2" Polypropylene Flue/Vent Tee Cap	45.71	7.97
23 51 16 00-0448 EA 3" Polypropylene Flue/Vent Tee Cap	56.74	8.38
23 51 16 00-0449 EA 4" Polypropylene Flue/Vent Tee Cap	66.08	8.69
23 51 16 00-0450 EA 5" Polypropylene Flue/Vent Tee Cap	83.88	9.04
23 51 16 00-0451 EA 2" Polypropylene Flue/Vent Tee Cap With Drain	97.54	23.90
23 51 16 00-0452 EA 3" Polypropylene Flue/Vent Tee Cap With Drain	115.31	25.16
23 51 16 00-0453 EA 4" Polypropylene Flue/Vent Tee Cap With Drain	130.18	26.07
23 51 16 00-0454 EA 5" Polypropylene Flue/Vent Tee Cap With Drain	152.33	27.13

23 51 16 00-0455 Polypropylene Flue/Vent Terminations (23 51 16 00-0372)

23 51 16 00-0456 EA 2" Polypropylene-UV Black Flue/Vent Chimney Cover	110.81	15.93
23 51 16 00-0457 EA 3" Polypropylene-UV Black Flue/Vent Chimney Cover	100.63	16.77
23 51 16 00-0458 EA 4" Polypropylene-UV Black Flue/Vent Chimney Cover	122.11	17.38
23 51 16 00-0459 EA 3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	229.64	16.77
23 51 16 00-0460 EA 4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	244.64	17.38
23 51 16 00-0461 EA 5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	283.26	18.10
23 51 16 00-0462 EA 2"/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	72.33	15.93
23 51 16 00-0463 EA 2"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	75.58	15.93
23 51 16 00-0464 EA 2"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	78.83	15.93
23 51 16 00-0465 EA 2"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	82.08	15.93
23 51 16 00-0466 EA 3"/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	77.68	16.77
23 51 16 00-0467 EA 3"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	80.93	16.77
23 51 16 00-0468 EA 3"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	84.18	16.77
23 51 16 00-0469 EA 3"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	87.43	16.77
23 51 16 00-0470 EA 4"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	85.70	17.38
23 51 16 00-0471 EA 4"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	88.95	17.38
23 51 16 00-0472 EA 4"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	92.20	17.38
23 51 16 00-0473 EA 2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	75.55	15.93
23 51 16 00-0474 EA 3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	92.95	16.77
23 51 16 00-0475 EA 2" Polypropylene-UV Black Flue/Vent Termination Tee	93.48	23.90
23 51 16 00-0476 EA 3" Polypropylene-UV Black Flue/Vent Termination Tee	116.45	25.16
23 51 16 00-0477 EA 4" Polypropylene-UV Black Flue/Vent Termination Tee	133.81	26.07
23 51 16 00-0478 EA 5" Polypropylene-UV Black Flue/Vent Termination Tee	145.75	27.13
23 51 16 00-0479 EA 2" x 20" Polypropylene-UV Black Flue/Vent End Pipe	38.85	13.80
23 51 16 00-0480 EA 2" x 39" Polypropylene-UV Black Flue/Vent End Pipe	45.24	15.33
23 51 16 00-0481 EA 3" x 20" Polypropylene-UV Black Flue/Vent End Pipe	45.91	15.82
23 51 16 00-0482 EA 3" x 39" Polypropylene-UV Black Flue/Vent End Pipe	55.07	17.58
23 51 16 00-0483 EA 4" x 20" Polypropylene-UV Black Flue/Vent End Pipe	66.20	20.92
23 51 16 00-0484 EA 5" x 20" Polypropylene-UV Black Flue/Vent End Pipe	93.48	30.88
23 51 16 00-0485 EA 5" x 39" Polypropylene-UV Black Flue/Vent End Pipe	110.02	34.32
23 51 16 00-0486 EA 2" x 24" Polypropylene-UV Black Flue/Vent Vent Length	41.46	13.80
23 51 16 00-0487 EA 3" x 24" Polypropylene-UV Black Flue/Vent Vent Length	51.31	15.82
23 51 16 00-0488 EA 4" x 24" Polypropylene-UV Black Flue/Vent Vent Length	78.84	20.92
23 51 16 00-0489 EA 2" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	46.38	15.93
23 51 16 00-0490 EA 3" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	52.41	16.77
23 51 16 00-0491 EA 4" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	61.79	17.38
23 51 16 00-0492 EA 2" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	45.89	15.93
23 51 16 00-0493 EA 3" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	52.09	16.77
23 51 16 00-0494 EA 4" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	61.22	17.38
23 51 16 00-0495 EA 2" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	27.40	7.97
23 51 16 00-0496 EA 3" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	31.00	8.38
23 51 16 00-0497 EA 4" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	34.00	8.69
23 51 16 00-0498 EA 3" Stainless Steel Bird Screen For Polypropylene Flue/Vent	57.63	8.38
23 51 16 00-0499 EA 5" Stainless Steel Bird Screen For Polypropylene Flue/Vent	65.62	9.04

23 51 16 00-0500 Polypropylene Flue/Vent Accessories (23 51 16 00-0372)

23 51 16 00-0501 EA 2" Spacer For Polypropylene Flue/Vent	13.89	3.98
23 51 16 00-0502 EA 3" Spacer For Polypropylene Flue/Vent	13.65	4.19
23 51 16 00-0503 EA 4" Spacer For Polypropylene Flue/Vent	14.09	4.34
23 51 16 00-0504 EA 5" Spacer For Polypropylene Flue/Vent	19.81	4.52
23 51 16 00-0505 EA 2" Flue Clamp For Polypropylene Flue/Vent	24.62	5.98
23 51 16 00-0506 EA 3" Flue Clamp For Polypropylene Flue/Vent	28.17	6.28
23 51 16 00-0507 EA 4" Flue Clamp For Polypropylene Flue/Vent	31.89	6.51
23 51 16 00-0508 EA 2" Support Clamp For Polypropylene Flue/Vent	23.72	5.98
23 51 16 00-0509 EA 4" Support Clamp For Polypropylene Flue/Vent	24.24	6.51
23 51 16 00-0510 EA 5" Support Clamp For Polypropylene Flue/Vent	28.35	6.79
23 51 16 00-0511 EA 3" Plastic Support Clamp For Polypropylene Flue/Vent	19.88	6.28
23 51 16 00-0512 EA 2" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	43.11	15.93
23 51 16 00-0513 EA 3" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	46.71	16.77
23 51 16 00-0514 EA 4" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	49.59	17.38
23 51 16 00-0515 EA 5" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	54.03	18.10
23 51 16 00-0516 EA 2" Single Wall EDPM Gasket For Polypropylene Flue/Vent	2.09	
23 51 16 00-0517 EA 3" Single Wall EDPM Gasket For Polypropylene Flue/Vent	2.33	
23 51 16 00-0518 EA 4" Single Wall EDPM Gasket For Polypropylene Flue/Vent	3.16	
23 51 16 00-0519 EA 5" Single Wall EDPM Gasket For Polypropylene Flue/Vent	5.22	
23 51 16 00-0520 EA 2" Connector Ring For Polypropylene Flue/Vent	12.20	3.98
23 51 16 00-0521 EA 3" Connector Ring For Polypropylene Flue/Vent	13.49	4.19
23 51 16 00-0522 EA 4" Connector Ring For Polypropylene Flue/Vent	14.35	4.34
23 51 16 00-0523 EA 5" Connector Ring For Polypropylene Flue/Vent	15.57	4.52

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Breechings, Chimneys, And Stacks****23 51****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0524	EA	2" / 4"	Polypropylene Flue/Vent Air Intake, White.....	48.97	7.97
23 51 16 00-0525	EA	3" / 5"	Polypropylene Flue/Vent Air Intake, White.....	50.42	8.38
23 51 16 00-0526	EA	4" / 6"	Polypropylene Flue/Vent Air Intake, White.....	39.97	8.69
23 51 16 00-0527	EA	2"	Base Support For Polypropylene Flue/Vent.....	41.60	5.98
23 51 16 00-0528	EA	3"	Base Support For Polypropylene Flue/Vent.....	43.03	6.28
23 51 16 00-0529	EA	4"	Base Support For Polypropylene Flue/Vent.....	55.82	6.51
23 51 16 00-0530	EA	5"	Base Support For Polypropylene Flue/Vent.....	90.25	6.79
23 51 16 00-0531 Polypropylene Flue/Vent Flex Pipe (23 51 16 00-0372)					
23 51 16 00-0532	LF	2", Up To 50'	Polypropylene Flue/Vent Flex Pipe.....	7.84	1.40
23 51 16 00-0533	LF	2", > 50'	Polypropylene Flue/Vent Flex Pipe.....	6.97	1.40
23 51 16 00-0534	LF	3", Up To 50'	Polypropylene Flue/Vent Flex Pipe.....	9.56	1.65
23 51 16 00-0535	LF	3", > 50'	Polypropylene Flue/Vent Flex Pipe.....	8.47	1.65
23 51 16 00-0536	LF	4", Up To 50'	Polypropylene Flue/Vent Flex Pipe.....	13.44	2.03
23 51 16 00-0537	LF	4", > 50'	Polypropylene Flue/Vent Flex Pipe.....	11.77	2.03
23 51 16 00-0538 Polypropylene Flue/Vent Couplers (23 51 16 00-0372)					
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.					
23 51 16 00-0539	EA	2"	Polypropylene Flue/Vent Coupler, Single Wall to Flex.....	61.36	15.93
23 51 16 00-0540	EA	2"	Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	66.79	15.93
23 51 16 00-0541	EA	3"	Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	120.09	16.77
23 51 16 00-0542	EA	4"	Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	205.95	17.38
23 51 16 00-0543	EA	2"	Polypropylene Flue/Vent Coupler, Flex to Flex.....	68.39	15.93
23 51 16 00-0544	EA	3"	Polypropylene Flue/Vent Coupler, Flex to Flex.....	139.92	16.77
23 51 16 00-0545	EA	4"	Polypropylene Flue/Vent Coupler, Flex to Flex.....	335.95	17.38
23 51 16 00-0546 Polypropylene Flue/Vent Flex End Terminations (23 51 16 00-0372)					
23 51 16 00-0547	EA	2"	Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	75.59	15.93
23 51 16 00-0548	EA	3"	Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	71.92	16.77
23 51 16 00-0549	EA	4"	Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	85.52	17.38
23 52 Heating Boilers (23 50)					
23 52 13 Electric Boilers (23 52)					
23 52 13 00-0001 Packaged Electric Steam Boiler (23 52 13)					
Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.					
23 52 13 00-0002	EA	12 KW, 42 MBH	Electric Steam Boiler With Packaged Standard Controls.....	11,147.74	615.61
23 52 13 00-0003	EA	24 KW, 84 MBH	Electric Steam Boiler With Packaged Standard Controls.....	12,104.19	718.21
23 52 13 00-0004	EA	36 KW, 126 MBH	Electric Steam Boiler With Packaged Standard Controls.....	13,258.54	769.52
23 52 13 00-0005	EA	48 KW, 168 MBH	Electric Steam Boiler With Packaged Standard Controls.....	14,923.74	820.83
23 52 13 00-0006	EA	60 KW, 210 MBH	Electric Steam Boiler With Packaged Standard Controls.....	16,543.86	872.13
23 52 13 00-0007	EA	80 KW, 280 MBH	Electric Steam Boiler With Packaged Standard Controls.....	19,453.57	974.73
23 52 13 00-0008	EA	100 KW, 350 MBH	Electric Steam Boiler With Packaged Standard Controls.....	22,363.27	1,077.33
23 52 13 00-0009	EA	120 KW, 420 MBH	Electric Steam Boiler With Packaged Standard Controls.....	23,036.84	1,128.63
23 52 13 00-0010	EA	140 KW, 490 MBH	Electric Steam Boiler With Packaged Standard Controls.....	23,695.37	1,179.93
23 52 13 00-0011	EA	160 KW, 560 MBH	Electric Steam Boiler With Packaged Standard Controls.....	31,863.82	1,282.54
23 52 13 00-0012	EA	180 KW, 630 MBH	Electric Steam Boiler With Packaged Standard Controls.....	33,318.67	1,333.84
23 52 13 00-0013	EA	200 KW, 700 MBH	Electric Steam Boiler With Packaged Standard Controls.....	34,696.95	1,346.85
23 52 13 00-0014	EA	220 KW, 770 MBH	Electric Steam Boiler With Packaged Standard Controls.....	36,248.73	1,446.62
23 52 13 00-0015	EA	240 KW, 840 MBH	Electric Steam Boiler With Packaged Standard Controls.....	39,272.97	1,546.38
23 52 13 00-0016	EA	260 KW, 910 MBH	Electric Steam Boiler With Packaged Standard Controls.....	42,457.06	1,696.04
23 52 13 00-0017	EA	280 KW, 980 MBH	Electric Steam Boiler With Packaged Standard Controls.....	44,810.58	1,745.92
23 52 13 00-0018	EA	300 KW, 1,050 MBH	Electric Steam Boiler With Packaged Standard Controls.....	47,164.10	1,795.80
23 52 13 00-0019	EA	320 KW, 1,120 MBH	Electric Steam Boiler With Packaged Standard Controls.....	48,766.36	1,845.68
23 52 13 00-0020	EA	360 KW, 1,260 MBH	Electric Steam Boiler With Packaged Standard Controls.....	50,368.64	1,895.56
23 52 13 00-0021	EA	400 KW, 1,400 MBH	Electric Steam Boiler With Packaged Standard Controls.....	53,873.66	1,995.34
23 52 13 00-0022	EA	460 KW, 1,610 MBH	Electric Steam Boiler With Packaged Standard Controls.....	57,378.70	2,095.10
23 52 13 00-0023	EA	500 KW, 1,750 MBH	Electric Steam Boiler With Packaged Standard Controls.....	60,783.97	2,144.98
23 52 13 00-0024	EA	600 KW, 2,100 MBH	Electric Steam Boiler With Packaged Standard Controls.....	68,396.23	2,194.86
23 52 13 00-0025	EA	700 KW, 2,450 MBH	Electric Steam Boiler With Packaged Standard Controls.....	73,554.02	2,294.63
23 52 13 00-0026	EA	756 KW, 2,646 MBH	Electric Steam Boiler With Packaged Standard Controls.....	75,406.30	2,394.40
23 52 13 00-0027	EA	828 KW, 2,898 MBH	Electric Steam Boiler With Packaged Standard Controls.....	84,119.60	2,544.05
23 52 13 00-0028	EA	936 KW, 3,276 MBH	Electric Steam Boiler With Packaged Standard Controls.....	86,522.40	2,693.70
23 52 13 00-0029	EA	1,008 KW, 3,528 MBH	Electric Steam Boiler With Packaged Standard Controls.....	88,925.20	2,843.35
23 52 13 00-0030	EA	1,116 KW, 3,906 MBH	Electric Steam Boiler With Packaged Standard Controls.....	95,535.00	2,993.00
23 52 13 00-0031	EA	1,224 KW, 4,284 MBH	Electric Steam Boiler With Packaged Standard Controls.....	98,439.03	3,092.77
23 52 13 00-0032	EA	1,368 KW, 4,788 MBH	Electric Steam Boiler With Packaged Standard Controls.....	102,444.10	3,292.30
23 52 13 00-0033	EA	1,440 KW, 5,040 MBH	Electric Steam Boiler With Packaged Standard Controls.....	106,148.67	3,491.83
23 52 13 00-0034	EA	1,512 KW, 5,292 MBH	Electric Steam Boiler With Packaged Standard Controls.....	117,065.23	3,691.36
23 52 13 00-0035	EA	1,620 KW, 5,670 MBH	Electric Steam Boiler With Packaged Standard Controls.....	123,774.80	3,890.90

23 52 13 00-0036 Packaged Electric Hot Water Boiler (23 52 13)

Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.). Rated by KW and MBH output.

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 13 00-0037 EA 9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls.....	9,392.38	564.31
23 52 13 00-0038 EA 12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls.....	10,095.99	615.61
23 52 13 00-0039 EA 18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls.....	10,799.58	666.91
23 52 13 00-0040 EA 24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls.....	11,398.02	718.21
23 52 13 00-0041 EA 36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls.....	12,011.46	769.52
23 52 13 00-0042 EA 48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls.....	12,609.89	820.83
23 52 13 00-0043 EA 60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls.....	13,313.49	872.13
23 52 13 00-0044 EA 72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls.....	14,317.59	923.43
23 52 13 00-0045 EA 84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls.....	14,916.03	974.73
23 52 13 00-0046 EA 90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls.....	15,499.43	1,026.03
23 52 13 00-0047 EA 105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls.....	16,503.53	1,077.33
23 52 13 00-0048 EA 120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls.....	17,357.38	1,128.63
23 52 13 00-0049 EA 135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls.....	18,737.12	1,179.93
23 52 13 00-0050 EA 150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls.....	19,440.72	1,231.23
23 52 13 00-0051 EA 165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls.....	20,219.45	1,282.54
23 52 13 00-0052 EA 180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls.....	22,305.35	1,333.84
23 52 13 00-0053 EA 195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls.....	24,329.70	1,346.85
23 52 13 00-0054 EA 225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls.....	26,512.53	1,446.62
23 52 13 00-0055 EA 240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls.....	28,710.39	1,546.38
23 52 13 00-0056 EA 270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls.....	30,992.98	1,696.04
23 52 13 00-0057 EA 300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls.....	33,190.85	1,795.80
23 52 13 00-0058 EA 330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls.....	34,968.02	1,895.56
23 52 13 00-0059 EA 360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls.....	36,645.40	1,945.44
23 52 13 00-0060 EA 390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls.....	39,059.01	1,995.34
23 52 13 00-0061 EA 420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls.....	41,452.20	2,095.10
23 52 13 00-0062 EA 450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls.....	43,856.20	2,095.10
23 52 13 00-0063 EA 504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls.....	48,162.97	2,144.98
23 52 13 00-0064 EA 612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls.....	50,591.61	2,194.86
23 52 13 00-0065 EA 684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls.....	53,120.02	2,294.63
23 52 13 00-0066 EA 720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls.....	55,548.65	2,344.52
23 52 13 00-0067 EA 750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls.....	57,977.30	2,394.40
23 52 13 00-0068 EA 810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls.....	59,779.10	2,544.05
23 52 13 00-0069 EA 900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls.....	63,083.40	2,693.70
23 52 13 00-0070 EA 1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls.....	74,501.20	2,843.35
23 52 13 00-0071 EA 1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls.....	82,012.50	2,993.00
23 52 13 00-0072 EA 1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls.....	85,818.03	3,092.77
23 52 13 00-0073 EA 1,350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls.....	89,973.35	3,292.30
23 52 13 00-0074 EA 1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls.....	94,128.67	3,491.83
23 52 13 00-0075 EA 1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls.....	105,345.73	3,691.36
23 52 13 00-0076 EA 1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls.....	112,355.80	3,890.90
23 52 13 00-0077 EA 1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls.....	115,410.09	3,990.66
23 52 13 00-0078 EA 1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls.....	118,464.37	4,090.44
23 52 13 00-0079 EA 1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls.....	118,763.67	4,240.08
23 52 13 00-0080 EA 2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls.....	135,490.70	4,339.85
23 52 13 00-0081 EA 2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls.....	144,805.00	4,489.50
23 52 13 00-0082 EA 2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls.....	162,832.60	4,788.80
23 52 13 00-0083 EA 2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls.....	175,850.22	5,287.63
23 52 13 00-0084 EA 3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls.....	195,077.46	5,886.24
23 52 13 00-0085 EA 3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls.....	203,787.16	6,484.83

23 52 16 Condensing Boilers (23 52)**23 52 16 13 Stainless-Steel Condensing Boilers (23 52 16)****23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code).

23 52 16 13-0002 EA 75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79)	10,111.24	410.41
23 52 16 13-0003 EA 127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129)	9,606.27	541.75
23 52 16 13-0004 EA 168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179)	10,269.17	609.46
23 52 16 13-0005 EA 187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1)	10,986.36	677.18
23 52 16 13-0006 EA 281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299)	14,079.34	677.18
23 52 16 13-0007 EA 374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399)	16,495.61	820.83
23 52 16 13-0008 EA 589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599)	21,962.54	880.33
23 52 16 13-0009 EA 785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798)	30,633.66	1,083.48
Note: Includes vent manifold.		
23 52 16 13-0010 EA 980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998)	37,353.51	1,185.06
Note: Includes vent manifold.		
23 52 16 13-0011 EA 1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499)	53,678.97	1,388.22
23 52 16 13-0012 EA 1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999)	59,123.29	1,489.79

23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)

Note: Includes Riello burners. Capacity given is IBR rating.

23 52 16 13-0014 EA 484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145).....	27,479.50	880.33
23 52 16 13-0015 EA 612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185).....	28,631.46	880.33
23 52 16 13-0016 EA 791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240).....	32,146.15	1,083.48
23 52 16 13-0017 EA 1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310).....	34,860.47	1,218.92
23 52 16 13-0018 EA 1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400).....	38,649.55	1,286.64
23 52 16 13-0019 EA 1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510).....	44,205.15	1,388.22
23 52 16 13-0020 EA 2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640).....	52,704.64	1,489.79

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Heating Boilers****23 52****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13) Note: Includes Riello burners.		
23 52 16 13-0022 EA 2,650 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790)	55,677.08	1,625.23
23 52 16 13-0023 EA 3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970)	64,340.97	1,692.94
23 52 16 13-0024 EA 4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200)	74,443.95	1,794.52
23 52 16 13-0025 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0026 EA 165 MBH 95.7% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211)	6,742.79	609.46
23 52 16 13-0027 EA 226 MBH 96% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN286)	8,669.15	677.18
23 52 16 13-0028 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0029 EA 324 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN400)	11,303.75	812.61
23 52 16 13-0030 EA 406 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN501)	13,849.91	820.83
23 52 16 13-0031 EA 493 MBH 94.6% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN601)	16,183.52	880.33
23 52 16 13-0032 EA 574 MBH 94.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN701)	18,404.83	880.33
23 52 16 13-0033 EA 654 MBH 94% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN801)	21,151.69	981.91
23 52 16 13-0034 Lochinvar SYNC Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0035 EA 941 MBH 94.1% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1000)	28,787.93	1,185.06
23 52 16 13-0036 EA 1,240 MBH 95.4% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1300)	32,711.22	1,286.64
23 52 16 13-0037 EA 1,443 MBH 96.2% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1500)	35,138.52	1,388.22
23 52 16 13-0038 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0039 EA 1,380 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1500)	34,740.05	1,286.64
23 52 16 13-0040 EA 1,840 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2000)	41,467.30	1,422.07
23 52 16 13-0041 EA 2,300 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2500)	53,768.28	1,557.50
23 52 16 13-0042 EA 2,760 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3000)	59,175.64	1,639.59
23 52 16 13-0043 EA 3,220 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3500)	69,951.46	1,639.59
23 52 16 13-0044 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13) Note: Compliant with SCAQMD.		
23 52 16 13-0045 EA 80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080)	6,176.25	406.31
23 52 16 13-0046 EA 105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105)	6,965.99	440.16
23 52 16 13-0047 EA 150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150)	8,062.69	609.46
23 52 16 13-0048 EA 210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210)	8,978.24	677.18
23 52 16 13-0049 EA 285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285)	11,225.40	677.18
23 52 16 13-0050 EA 399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399)	14,116.25	812.61
23 52 16 13-0051 EA 500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500)	18,027.31	880.33
23 52 16 13-0052 EA 600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600)	19,165.13	880.33
23 52 16 13-0053 EA 750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750)	20,921.31	1,015.77
23 52 16 13-0054 EA 850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850)	22,642.65	1,151.21
23 52 16 13-0055 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000)	32,199.58	1,218.92
23 52 16 13-0056 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700)	42,670.40	1,422.07
23 52 16 13-0057 EA 150 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV150)	8,610.49	609.46
23 52 16 13-0058 EA 199 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV199)	10,120.29	677.18
23 52 16 13-0059 EA 285 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV285)	12,715.77	677.18
23 52 16 13-0060 EA 399 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV399)	15,493.67	812.61
23 52 16 13-0061 EA 500 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV500)	19,249.57	880.33
23 52 16 13-0062 EA 600 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV600)	19,882.87	880.33
23 52 16 13-0063 EA 750 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV750)	22,003.20	1,015.77
23 52 16 13-0064 EA 800 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV800)	23,604.82	1,083.48
23 52 16 13-0065 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV1000)	32,199.58	1,218.92
23 52 16 13-0066 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV1700)	42,670.40	1,422.07
23 52 16 13-0067 AERCO Benchmark Stainless-Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0068 EA 1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN)	32,010.23	1,388.22
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0069 EA 2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN)	37,831.91	1,489.79
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0070 EA 3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	53,821.44	1,639.59
Note: Includes gas PRV and pump delay relay.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0071 EA 3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000) Note: Includes gas PRV and pump delay relay.	57,245.99	1,639.59
23 52 16 16 Aluminum Condensing Boilers (23 52 16 16)		
23 52 16 16-0001 Weil McLain Aluminum Condensing Boilers (23 52 16 16)		
23 52 16 16-0002 EA 80 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	5,038.27	410.41
23 52 16 16-0003 EA 105 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	5,487.50	440.16
23 52 16 16-0004 EA 155 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	6,462.67	609.46
23 52 16 16-0005 EA 230 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	7,245.57	677.18
23 52 16 16-0006 EA 310 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	9,183.88	812.61
23 52 16 16-0007 Patterson Kelly Mach Series Aluminum Condensing Boilers (23 52 16 16)		
23 52 16 16-0008 EA 300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C300)	14,115.36	677.18
23 52 16 16-0009 EA 450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C450)	16,092.14	820.83
23 52 16 16-0010 EA 750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C750)	18,295.22	1,026.03
23 52 16 16-0011 EA 900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C900)	26,850.93	1,151.21
23 52 16 16-0012 EA 1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1050)	28,060.96	1,218.92
23 52 16 16-0013 EA 1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1500)	43,174.71	1,388.22
23 52 16 16-0014 EA 2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2000)	46,742.96	1,489.79
23 52 16 16-0015 EA 2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2500)	54,039.46	1,625.23
23 52 16 16-0016 EA 3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C3000)	66,550.30	1,625.23
23 52 16 16-0017 EA 4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C4000)	81,276.68	1,794.52
23 52 16 16-0018 Buderus GB142 Wall Hung Aluminum Condensing Boilers (23 52 16 16)		
Note: Includes standard controls.		
23 52 16 16-0019 EA 75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24) Note: Includes an aluminum heat exchanger and three speed circulating pump.	6,046.40	410.41
23 52 16 16-0020 EA 95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30) Note: Includes an aluminum heat exchanger and three speed circulating pump.	6,919.54	440.16
23 52 16 16-0021 EA 143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45) Note: Includes an aluminum heat exchanger and three speed circulating pump.	7,995.31	541.75
23 52 16 16-0022 EA 193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60) Note: Includes an aluminum heat exchanger and three speed circulating pump.	8,967.62	677.18
23 52 16 16-0023 EA Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46)	311.44	102.60
23 52 16 16-0024 EA Optional Stainless Steel Concentric Hood For GB142 (Buderus SGT3)	399.75	102.60
23 52 16 16-0025 EA Optional GB Floor Stand For GB142 (Buderus 7098265)	824.70	102.60
23 52 16 16-0026 Buderus GB162 Wall Hung Aluminum Condensing Boilers (23 52 16 16)		
Note: Includes standard controls.		
23 52 16 16-0027 EA 290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80) Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.	8,263.87	677.18
23 52 16 16-0028 EA 333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100) Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.	10,254.09	812.61
23 52 16 16-0029 EA 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	19,768.35	964.98
23 52 16 16-0030 EA 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	18,523.04	964.98
23 52 16 16-0031 EA 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	23,389.66	981.91
23 52 16 16-0032 EA 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	22,144.36	981.91
23 52 16 16-0033 EA 870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	27,199.68	1,151.21

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Heating Boilers****23 52****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 16-0034 EA 999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	32,759.91	1,218.92
23 52 16 16-0035 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	33,694.88	1,286.64
23 52 16 16-0036 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	34,193.63	1,286.64
23 52 16 16-0037 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4) Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	40,834.91	1,286.64
23 52 16 16-0038 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4) Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	41,333.66	1,286.64
23 52 16 16-0039 EA EMS Control Module For Condensing Boiler (Buderus RC35)	558.30	102.60
23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers (23 52 16 16) Note: Includes standard controls.		
23 52 16 16-0041 EA 305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90)..... Note: Includes an aluminum heat exchanger.	15,849.91	677.18
23 52 16 16-0042 EA 409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120)..... Note: Includes an aluminum heat exchanger.	17,655.48	820.83
23 52 16 16-0043 EA 544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160)..... Note: Includes an aluminum heat exchanger.	20,868.56	880.33
23 52 16 16-0044 EA 676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200)..... Note: Includes an aluminum heat exchanger.	24,043.46	981.91
23 52 16 16-0045 EA 810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240)..... Note: Includes an aluminum heat exchanger.	28,754.28	1,083.48
23 52 16 16-0046 EA 944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280)..... Note: Includes an aluminum heat exchanger.	31,749.99	1,185.06
23 52 16 16-0047 EA Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....	486.58	51.30
23 52 16 16-0048 EA Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....	243.39	51.30
23 52 16 16-0049 EA Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550)	341.95	51.30
23 52 16 16-0050 EA Optional Condensate Neutralization Tank For GB312 (Buderus 63035899)	708.02	51.30
23 52 16 19 Copper Water-Tube Condensing Boilers (23 52 16)		
23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers (23 52 16 19)		
23 52 16 19-0002 EA 1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	32,697.70	1,286.64
23 52 16 19-0003 EA 1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	36,846.06	1,422.07
23 52 16 19-0004 EA 2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	40,270.59	1,489.79
23 52 16 19-0005 EA 2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	43,625.49	1,625.23
23 52 16 23 Cast Iron Condensing Boilers (23 52 16)		
23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers (23 52 16 23)		
23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....	11,292.95	677.18
23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....	16,269.47	820.83
23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....	26,209.54	880.33
23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....	34,650.45	1,218.92
23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....	46,017.39	1,422.07
23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....	50,143.78	1,489.79
23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....	63,586.45	1,625.23
23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....	69,298.82	1,625.23
23 52 23 Cast-Iron Boilers (23 52)		
23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler (23 52 23) Note: Capacities are the steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0003 EA 208 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	14,060.28	2,911.95
23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	15,308.40	3,106.09
23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	16,669.08	3,300.22

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	17,938.48	3,494.35
23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	19,115.17	3,688.48
23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	20,704.77	3,882.61
23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	21,946.32	4,076.74
23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	22,943.92	4,270.87
23 52 23 00-0011 EA 922 MBH Steam, 1069 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	23,938.01	4,465.00
23 52 23 00-0012 EA 1,018 MBH Steam, 1172 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	25,077.02	4,659.14
23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0014 EA 208 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	9,313.77	399.07
23 52 23 00-0015 EA 297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	10,329.12	399.07
23 52 23 00-0016 EA 386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	11,857.99	498.83
23 52 23 00-0017 EA 476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	12,893.29	498.83
23 52 23 00-0018 EA 565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	14,238.40	598.60
23 52 23 00-0019 EA 654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	15,607.60	598.60
23 52 23 00-0020 EA 743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	17,015.72	698.37
23 52 23 00-0021 EA 833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	18,180.23	798.13
23 52 23 00-0022 EA 922 MBH Steam, 1069 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	18,943.58	798.13
23 52 23 00-0023 EA 1,018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package unit.	20,247.75	897.90
23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0025 EA 208 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	14,653.53	2,911.95
23 52 23 00-0026 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	16,007.70	3,106.09
23 52 23 00-0027 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	17,304.33	3,300.22
23 52 23 00-0028 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	18,745.93	3,494.35
23 52 23 00-0029 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	19,944.67	3,688.48
23 52 23 00-0030 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	21,668.67	3,882.61
23 52 23 00-0031 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	22,773.72	4,076.74
23 52 23 00-0032 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	23,850.07	4,270.87
23 52 23 00-0033 EA 922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	24,845.21	4,465.00
23 52 23 00-0034 EA 1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	26,012.57	4,659.14
23 52 23 00-0035 Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0036 EA 208 MBH Steam, 242 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	9,907.02	399.07
23 52 23 00-0037 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	11,028.42	399.07
23 52 23 00-0038 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	12,493.24	498.83
23 52 23 00-0039 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	13,700.74	498.83
23 52 23 00-0040 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	15,067.90	598.60
23 52 23 00-0041 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	16,571.50	598.60
23 52 23 00-0042 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	17,843.12	698.37
23 52 23 00-0043 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	19,086.38	798.13
23 52 23 00-0044 EA 922 MBH Steam, 1069 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	19,850.78	798.13
23 52 23 00-0045 EA 1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Package CI Boiler..... Note: Weil-McLain Model 80. Fire tested factory assembled package cast iron unit.	21,183.30	897.90

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Heating Boilers****23 52****23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0046		Weil-McLain Model 88 Cast Iron Boiler (23 52 23) Note: Capacities are the steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0047		Gas Fired Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0048	EA	608 MBH Steam, 704 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	22,480.45	4,367.94
23 52 23 00-0049	EA	813 MBH Steam, 943 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	24,724.77	4,634.87
23 52 23 00-0050	EA	1,028 MBH Steam, 1,161 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	27,483.68	4,901.80
23 52 23 00-0051	EA	1,254 MBH Steam, 1,419 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	29,924.00	5,168.73
23 52 23 00-0052	EA	1,477 MBH Steam, 1,656 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	32,056.39	5,435.65
23 52 23 00-0053	EA	1,688 MBH Steam, 1,892 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	35,110.52	5,702.58
23 52 23 00-0054	EA	1,904 MBH Steam, 2,132 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	37,262.09	5,969.51
23 52 23 00-0055	EA	2,116 MBH Steam, 2,369 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	39,174.91	6,236.44
23 52 23 00-0056	EA	2,329 MBH Steam, 2,609 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	41,701.59	6,503.37
23 52 23 00-0057	EA	2,539 MBH Steam, 2,843 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	43,749.59	6,770.30
23 52 23 00-0058	EA	2,756 MBH Steam, 3,087 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	47,286.78	7,037.23
23 52 23 00-0059	EA	2,966 MBH Steam, 3,322 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	49,239.36	7,304.16
23 52 23 00-0060	EA	3,175 MBH Steam, 3,557 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	51,305.36	7,571.09
23 52 23 00-0061	EA	3,383 MBH Steam, 3,800 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	53,598.43	7,838.02
23 52 23 00-0062	EA	3,602 MBH Steam, 4,035 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	55,478.96	8,104.95
23 52 23 00-0063		Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046)		
23 52 23 00-0064	EA	608 MBH Steam, 704 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	17,030.42	698.37
23 52 23 00-0065	EA	813 MBH Steam, 943 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	19,319.48	798.13
23 52 23 00-0066	EA	1,028 MBH Steam, 1,161 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	22,135.65	897.90
23 52 23 00-0067	EA	1,254 MBH Steam, 1,419 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	24,610.56	997.67
23 52 23 00-0068	EA	1,477 MBH Steam, 1,656 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	26,387.16	997.67
23 52 23 00-0069	EA	1,688 MBH Steam, 1,892 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	29,488.92	1,097.43
23 52 23 00-0070	EA	1,904 MBH Steam, 2,132 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	31,287.57	1,097.43
23 52 23 00-0071	EA	2,116 MBH Steam, 2,369 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	33,244.85	1,197.20
23 52 23 00-0072	EA	2,329 MBH Steam, 2,609 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	35,419.40	1,197.20
23 52 23 00-0073	EA	2,539 MBH Steam, 2,843 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	37,512.14	1,296.97
23 52 23 00-0074	EA	2,756 MBH Steam, 3,087 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	39,540.80	1,396.73
23 52 23 00-0075	EA	2,966 MBH Steam, 3,322 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	41,141.00	1,396.73
23 52 23 00-0076	EA	3,175 MBH Steam, 3,557 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	43,252.60	1,496.50
23 52 23 00-0077	EA	3,383 MBH Steam, 3,800 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	45,191.95	1,496.50
23 52 23 00-0078	EA	3,602 MBH Steam, 4,035 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package unit.	47,139.72	1,596.27
23 52 23 00-0079		Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0080	EA	608 MBH Steam, 704 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	23,211.25	4,367.94
23 52 23 00-0081	EA	813 MBH Steam, 943 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	25,451.37	4,634.87
23 52 23 00-0082	EA	1,028 MBH Steam, 1,161 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	28,399.28	4,901.80
23 52 23 00-0083	EA	1,254 MBH Steam, 1,419 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	30,932.00	5,168.73

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0084 EA 1,477 MBH Steam, 1,656 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	32,961.49	5,435.65
23 52 23 00-0085 EA 1,688 MBH Steam, 1,892 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	35,958.92	5,702.58
23 52 23 00-0086 EA 1,904 MBH Steam, 2,132 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	38,535.74	5,969.51
23 52 23 00-0087 EA 2,116 MBH Steam, 2,369 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	40,448.56	6,236.44
23 52 23 00-0088 EA 2,329 MBH Steam, 2,609 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	42,950.04	6,503.37
23 52 23 00-0089 EA 2,539 MBH Steam, 2,843 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	45,534.59	6,770.30
23 52 23 00-0090 EA 2,756 MBH Steam, 3,087 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	49,162.08	7,037.23
23 52 23 00-0091 EA 2,966 MBH Steam, 3,322 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	51,745.71	7,304.16
23 52 23 00-0092 EA 3,175 MBH Steam, 3,557 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	53,179.61	7,571.09
23 52 23 00-0093 EA 3,383 MBH Steam, 3,800 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	55,415.98	7,838.02
23 52 23 00-0094 EA 3,602 MBH Steam, 4,035 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 88. Includes field assembly of individual sections and testing.	57,316.46	8,104.95
23 52 23 00-0095 Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler (23 52 23 00-0046)		
23 52 23 00-0096 EA 608 MBH Steam, 704 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	17,761.22	698.37
23 52 23 00-0097 EA 813 MBH Steam, 943 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	20,046.08	798.13
23 52 23 00-0098 EA 1,028 MBH Steam, 1,161 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	23,040.75	897.90
23 52 23 00-0099 EA 1,254 MBH Steam, 1,419 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	25,618.56	997.67
23 52 23 00-0100 EA 1,477 MBH Steam, 1,656 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	27,294.36	997.67
23 52 23 00-0101 EA 1,688 MBH Steam, 1,892 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	30,337.32	1,097.43
23 52 23 00-0102 EA 1,904 MBH Steam, 2,132 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	32,561.22	1,097.43
23 52 23 00-0103 EA 2,116 MBH Steam, 2,369 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	34,518.50	1,197.20
23 52 23 00-0104 EA 2,329 MBH Steam, 2,609 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	36,667.85	1,197.20
23 52 23 00-0105 EA 2,539 MBH Steam, 2,843 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	39,302.39	1,296.97
23 52 23 00-0106 EA 2,756 MBH Steam, 3,087 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	41,416.10	1,396.73
23 52 23 00-0107 EA 2,966 MBH Steam, 3,322 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	42,597.35	1,396.73
23 52 23 00-0108 EA 3,175 MBH Steam, 3,557 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	45,126.85	1,496.50
23 52 23 00-0109 EA 3,383 MBH Steam, 3,800 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	47,009.50	1,496.50
23 52 23 00-0110 EA 3,602 MBH Steam, 4,035 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	48,956.22	1,596.27
23 52 23 00-0111 Weil-McLain Model 94 Cast Iron Boiler (23 52 23)		
Note: Capacities are the steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0112 Gas Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0113 EA 1,575 MBH Steam, 1,763 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	59,617.11	8,493.21
23 52 23 00-0114 EA 1,801 MBH Steam, 2,017 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	64,536.88	8,978.53
23 52 23 00-0115 EA 2,028 MBH Steam, 2,271 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	69,041.70	9,463.87
23 52 23 00-0116 EA 2,255 MBH Steam, 2,525 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	73,454.88	9,949.19
23 52 23 00-0117 EA 2,477 MBH Steam, 2,774 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	77,908.41	10,434.52
23 52 23 00-0118 EA 2,702 MBH Steam, 3,026 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	83,774.90	10,919.85
23 52 23 00-0119 EA 2,927 MBH Steam, 3,278 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	87,978.63	11,405.17
23 52 23 00-0120 EA 3,160 MBH Steam, 3,539 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	92,050.54	11,890.50
23 52 23 00-0121 EA 3,385 MBH Steam, 3,791 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	98,594.65	12,375.82
23 52 23 00-0122 EA 3,610 MBH Steam, 4,043 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	102,664.27	12,861.15



Heating, Ventilating, And Air-Conditioning (HVAC)			23	23
Central Heating Equipment			23 50	
Heating Boilers			23 52	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0123	EA	3,835 MBH Steam, 4,296 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	106,173.79	13,346.47
23 52 23 00-0124	EA	4,061 MBH Steam, 4,548 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	112,494.42	13,831.80
23 52 23 00-0125	EA	4,286 MBH Steam, 4,800 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	116,596.60	14,317.13
23 52 23 00-0126	EA	4,511 MBH Steam, 5,052 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	123,060.14	14,802.45
23 52 23 00-0127	EA	4,736 MBH Steam, 5,304 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	127,371.42	15,287.79
23 52 23 00-0128	EA	4,961 MBH Steam, 5,557 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	132,076.78	15,773.11
23 52 23 00-0129	EA	5,186 MBH Steam, 5,809 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	136,136.66	16,258.44
23 52 23 00-0130	EA	5,411 MBH Steam, 6,061 MBH Water Gas Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	140,309.39	16,743.76
23 52 23 00-0131 Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)				
23 52 23 00-0132	EA	1,575 MBH Steam, 1,763 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	51,718.64	1,296.97
23 52 23 00-0133	EA	1,801 MBH Steam, 2,017 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	56,398.55	1,396.73
23 52 23 00-0134	EA	2,028 MBH Steam, 2,271 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	60,660.55	1,496.50
23 52 23 00-0135	EA	2,255 MBH Steam, 2,525 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	64,834.32	1,596.27
23 52 23 00-0136	EA	2,477 MBH Steam, 2,774 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	68,645.82	1,596.27
23 52 23 00-0137	EA	2,702 MBH Steam, 3,026 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	72,721.03	1,696.04
23 52 23 00-0138	EA	2,927 MBH Steam, 3,278 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	76,283.68	1,696.04
23 52 23 00-0139	EA	3,160 MBH Steam, 3,539 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	80,114.10	1,795.80
23 52 23 00-0140	EA	3,385 MBH Steam, 3,791 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	86,018.25	1,795.80
23 52 23 00-0141	EA	3,610 MBH Steam, 4,043 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	89,847.61	1,895.56
23 52 23 00-0142	EA	3,835 MBH Steam, 4,296 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	92,716.21	1,895.56
23 52 23 00-0143	EA	4,061 MBH Steam, 4,548 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	98,797.94	1,995.34
23 52 23 00-0144	EA	4,286 MBH Steam, 4,800 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	102,258.74	1,995.34
23 52 23 00-0145	EA	4,511 MBH Steam, 5,052 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	108,500.07	2,095.10
23 52 23 00-0146	EA	4,736 MBH Steam, 5,304 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	112,150.92	2,095.10
23 52 23 00-0147	EA	4,961 MBH Steam, 5,557 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	116,613.48	2,194.86
23 52 23 00-0148	EA	5,186 MBH Steam, 5,809 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	120,033.33	2,194.86
23 52 23 00-0149	EA	5,411 MBH Steam, 6,061 MBH Water Gas Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	123,964.54	2,294.63
23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)				
Note: Field assembled boilers can only be used in situations where package units cannot be installed.				
23 52 23 00-0151	EA	1,575 MBH Steam, 1,763 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	56,483.91	8,493.21
23 52 23 00-0152	EA	1,801 MBH Steam, 2,017 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	61,403.68	8,978.53
23 52 23 00-0153	EA	2,028 MBH Steam, 2,271 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	67,359.60	9,463.87
23 52 23 00-0154	EA	2,255 MBH Steam, 2,525 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	71,393.73	9,949.19
23 52 23 00-0155	EA	2,477 MBH Steam, 2,774 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	75,588.96	10,434.52
23 52 23 00-0156	EA	2,702 MBH Steam, 3,026 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	81,166.70	10,919.85
23 52 23 00-0157	EA	2,927 MBH Steam, 3,278 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	85,565.73	11,405.17
23 52 23 00-0158	EA	3,160 MBH Steam, 3,539 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	89,639.74	11,890.50
23 52 23 00-0159	EA	3,385 MBH Steam, 3,791 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	96,933.55	12,375.82
23 52 23 00-0160	EA	3,610 MBH Steam, 4,043 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	101,004.22	12,861.15
23 52 23 00-0161	EA	3,835 MBH Steam, 4,296 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	105,073.39	13,346.47
23 52 23 00-0162	EA	4,061 MBH Steam, 4,548 MBH Water Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	112,501.77	13,831.80

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0163	EA	4,286 MBH Steam, 4,800 MBH Water Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	116,603.95	14,317.13
23 52 23 00-0164	EA	4,511 MBH Steam, 5,052 MBH Water Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	123,236.54	14,802.45
23 52 23 00-0165	EA	4,736 MBH Steam, 5,304 MBH Water Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	127,546.77	15,287.79
23 52 23 00-0166	EA	4,961 MBH Steam, 5,557 MBH Water Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	132,161.83	15,773.11
23 52 23 00-0167	EA	5,186 MBH Steam, 5,809 MBH Water Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	136,221.71	16,258.44
23 52 23 00-0168	EA	5,411 MBH Steam, 6,061 MBH Water Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	140,400.74	16,743.76
23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)				
23 52 23 00-0170	EA	1,575 MBH Steam, 1,763 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	48,415.34	1,296.97
23 52 23 00-0171	EA	1,801 MBH Steam, 2,017 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	53,095.25	1,396.73
23 52 23 00-0172	EA	2,028 MBH Steam, 2,271 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	58,808.35	1,496.50
23 52 23 00-0173	EA	2,255 MBH Steam, 2,525 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	62,603.07	1,596.27
23 52 23 00-0174	EA	2,477 MBH Steam, 2,774 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	66,156.27	1,596.27
23 52 23 00-0175	EA	2,702 MBH Steam, 3,026 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	69,942.73	1,696.04
23 52 23 00-0176	EA	2,927 MBH Steam, 3,278 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	73,700.68	1,696.04
23 52 23 00-0177	EA	3,160 MBH Steam, 3,539 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	77,531.10	1,795.80
23 52 23 00-0178	EA	3,385 MBH Steam, 3,791 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	84,187.05	1,795.80
23 52 23 00-0179	EA	3,610 MBH Steam, 4,043 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	88,015.36	1,895.56
23 52 23 00-0180	EA	3,835 MBH Steam, 4,296 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	91,445.71	1,895.56
23 52 23 00-0181	EA	4,061 MBH Steam, 4,548 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	98,635.19	1,995.34
23 52 23 00-0182	EA	4,286 MBH Steam, 4,800 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	102,095.99	1,995.34
23 52 23 00-0183	EA	4,511 MBH Steam, 5,052 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	108,485.37	2,095.10
23 52 23 00-0184	EA	4,736 MBH Steam, 5,304 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	112,156.17	2,095.10
23 52 23 00-0185	EA	4,961 MBH Steam, 5,557 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	116,528.43	2,194.86
23 52 23 00-0186	EA	5,186 MBH Steam, 5,809 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	119,948.28	2,194.86
23 52 23 00-0187	EA	5,411 MBH Steam, 6,061 MBH Water Oil Fired Package Cast Iron Boiler Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	123,885.79	2,294.63
23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)				
Note: Field assembled boilers can only be used in situations where package units cannot be installed.				
23 52 23 00-0189	EA	1,575 MBH Steam, 1,763 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	60,602.01	8,493.21
23 52 23 00-0190	EA	1,801 MBH Steam, 2,017 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	65,522.83	8,978.53
23 52 23 00-0191	EA	2,028 MBH Steam, 2,271 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	70,296.45	9,463.87
23 52 23 00-0192	EA	2,255 MBH Steam, 2,525 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	74,815.68	9,949.19
23 52 23 00-0193	EA	2,477 MBH Steam, 2,774 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	79,245.06	10,434.52
23 52 23 00-0194	EA	2,702 MBH Steam, 3,026 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	84,268.40	10,919.85
23 52 23 00-0195	EA	2,927 MBH Steam, 3,278 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	89,617.68	11,405.17
23 52 23 00-0196	EA	3,160 MBH Steam, 3,539 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	93,947.89	11,890.50
23 52 23 00-0197	EA	3,385 MBH Steam, 3,791 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	100,656.85	12,375.82
23 52 23 00-0198	EA	3,610 MBH Steam, 4,043 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	104,726.47	12,861.15
23 52 23 00-0199	EA	3,835 MBH Steam, 4,296 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	108,309.49	13,346.47
23 52 23 00-0200	EA	4,061 MBH Steam, 4,548 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	114,701.52	13,831.80
23 52 23 00-0201	EA	4,286 MBH Steam, 4,800 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	119,853.70	14,317.13
23 52 23 00-0202	EA	4,511 MBH Steam, 5,052 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	126,880.04	14,802.45

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Heating Boilers****23 52****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0203 EA 4,736 MBH Steam, 5,304 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	131,159.82	15,287.79
23 52 23 00-0204 EA 4,961 MBH Steam, 5,557 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	136,060.48	15,773.11
23 52 23 00-0205 EA 5,186 MBH Steam, 5,809 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	140,121.41	16,258.44
23 52 23 00-0206 EA 5,411 MBH Steam, 6,061 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 94. Includes field assembly of individual sections and testing.	144,297.29	16,743.76
23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
23 52 23 00-0208 EA 1,575 MBH Steam, 1,763 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	52,780.19	1,296.97
23 52 23 00-0209 EA 1,801 MBH Steam, 2,017 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	57,461.15	1,396.73
23 52 23 00-0210 EA 2,028 MBH Steam, 2,271 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	61,995.10	1,496.50
23 52 23 00-0211 EA 2,255 MBH Steam, 2,525 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	66,272.82	1,596.27
23 52 23 00-0212 EA 2,477 MBH Steam, 2,774 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	70,060.17	1,596.27
23 52 23 00-0213 EA 2,702 MBH Steam, 3,026 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	73,291.18	1,696.04
23 52 23 00-0214 EA 2,927 MBH Steam, 3,278 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	77,999.38	1,696.04
23 52 23 00-0215 EA 3,160 MBH Steam, 3,539 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	82,087.05	1,795.80
23 52 23 00-0216 EA 3,385 MBH Steam, 3,791 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	88,158.15	1,795.80
23 52 23 00-0217 EA 3,610 MBH Steam, 4,043 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	91,985.41	1,895.56
23 52 23 00-0218 EA 3,835 MBH Steam, 4,296 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	94,928.56	1,895.56
23 52 23 00-0219 EA 4,061 MBH Steam, 4,548 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	101,081.69	1,995.34
23 52 23 00-0220 EA 4,286 MBH Steam, 4,800 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	105,593.54	1,995.34
23 52 23 00-0221 EA 4,511 MBH Steam, 5,052 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	112,376.67	2,095.10
23 52 23 00-0222 EA 4,736 MBH Steam, 5,304 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	116,017.02	2,095.10
23 52 23 00-0223 EA 4,961 MBH Steam, 5,557 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	120,673.83	2,194.86
23 52 23 00-0224 EA 5,186 MBH Steam, 5,809 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	124,094.73	2,194.86
23 52 23 00-0225 EA 5,411 MBH Steam, 6,061 MBH Water Gas/Oil Fired Package Cast Iron Boiler..... Note: Weil-McLain Model 94. Fire tested factory assembled package cast iron unit.	128,030.14	2,294.63
23 52 33 Water-Tube Boilers (23 52)		
23 52 33 13 Finned Water-Tube Boilers (23 52 33)		
23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler (23 52 33 13)		
23 52 33 13-0002 EA 200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	6,738.44	609.46
23 52 33 13-0003 EA 300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	7,421.28	677.18
23 52 33 13-0004 EA 400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	8,556.46	812.61
23 52 33 13-0005 EA 500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	10,757.99	846.47
23 52 33 13-0006 EA 750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	12,657.36	1,015.77
23 52 33 13-0007 EA 1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	15,527.05	1,218.92
23 52 33 13-0008 EA 1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	17,550.83	1,286.64
23 52 33 13-0009 EA 1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	19,407.89	1,388.22
23 52 33 13-0010 EA 1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	21,111.39	1,455.93
23 52 33 13-0011 EA 2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	22,589.26	1,489.79
23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (23 52 33 13)		
23 52 33 13-0013 EA 1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	22,709.29	1,218.92
23 52 33 13-0014 EA 1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	28,243.57	1,388.22
23 52 33 13-0015 EA 2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	30,105.07	1,489.79
23 52 33 13-0016 EA 2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	42,226.02	1,692.94
23 52 33 13-0017 EA 3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	44,397.55	1,896.10
23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler (23 52 33 13)		
23 52 33 13-0019 EA 340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	7,758.65 260.90 231.12	546.88

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 13-0020 EA 425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	9,350.21 260.90 231.12	683.34
23 52 33 13-0021 EA 552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	10,149.14 260.90 231.12	820.83
23 52 33 13-0022 EA 637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	10,397.99 260.90 231.12	820.83
23 52 33 13-0023 EA 841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	12,908.69 260.90 231.12	1,026.03
23 52 33 13-0024 EA 1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	14,735.00 260.90 231.12	1,026.03
23 52 33 13-0025 EA 1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	15,943.09 260.90 231.12	1,026.03
23 52 33 13-0026 EA 1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	17,351.33 260.90 231.12	1,231.23
23 52 33 13-0027 EA 1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072)..... For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	20,495.85 260.90 231.12	1,436.44
23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump (23 52 33 13)		
23 52 33 13-0029 EA 385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B).....	7,776.50	751.66
23 52 33 13-0030 EA 420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B).....	8,386.68	677.18
23 52 33 13-0031 EA 546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B).....	9,251.97	812.61
23 52 33 13-0032 EA 630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B).....	9,840.65	922.50
23 52 33 13-0033 EA 756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B).....	10,931.56	1,015.77
23 52 33 13-0034 EA 832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B).....	11,745.83	1,093.34
23 52 33 13-0035 EA 1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....	13,395.86	1,218.92
23 52 33 13-0036 EA 1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....	15,400.37	1,286.64
23 52 33 13-0037 EA 1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....	16,369.88	1,388.22
23 52 33 13-0038 EA 1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....	19,266.47	1,422.07
23 52 33 13-0039 EA 1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....	19,369.08	1,455.93
23 52 33 13-0040 EA 1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....	22,391.36	1,489.79
23 52 33 16 Steel Water-Tube Boilers (23 52 33)		
23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with BAAQMD.		
23 52 33 16-0002 EA 1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....	45,397.73	1,641.64
23 52 33 16-0003 EA 1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....	49,069.04	2,052.05
23 52 33 16-0004 EA 2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....	50,112.28	2,257.26
23 52 33 16-0005 EA 2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....	54,006.00	2,462.47
23 52 33 16-0006 EA 3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....	56,046.86	2,770.27
23 52 33 16-0007 EA 3,750 MBH Output/3,188 MBH Input, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....	61,886.88	3,078.08
23 52 33 16-0008 EA 4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....	64,467.11	3,180.68
23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with BAAQMD.		
23 52 33 16-0010 EA 1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100LS).....	52,933.24	1,846.85
23 52 33 16-0011 EA 1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150LS).....	55,765.41	2,154.65
23 52 33 16-0012 EA 2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200LS).....	57,442.58	2,359.87
23 52 33 16-0013 EA 2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250LS).....	64,185.67	2,565.07
23 52 33 16-0014 EA 3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300LS).....	66,654.16	2,770.27
23 52 33 16-0015 EA 3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350LS).....	71,385.90	3,078.08
23 52 33 16-0016 EA 4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400LS).....	75,599.91	3,283.28
23 52 33 16-0017 EA 5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500LS).....	124,612.62	3,488.49
23 52 33 16-0018 EA 6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600LS).....	134,839.01	3,693.69

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Heating Boilers****23 52****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 16-0019 EA 7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700LS).....	141,899.08	3,898.91
23 52 33 16-0020 EA 8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800LS).....	145,634.31	4,104.11
23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with BAAQMD.		
23 52 33 16-0022 EA 1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....	56,890.89	1,846.85
23 52 33 16-0023 EA 1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....	60,515.48	2,154.65
23 52 33 16-0024 EA 2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....	62,825.47	2,359.87
23 52 33 16-0025 EA 2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....	69,727.05	2,565.07
23 52 33 16-0026 EA 3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS).....	72,195.53	2,770.27
23 52 33 16-0027 EA 3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS).....	76,135.97	3,078.08
23 52 33 16-0028 EA 4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS).....	80,505.14	3,283.28
23 52 33 16-0029 EA 5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS).....	129,204.21	3,488.49
23 52 33 16-0030 EA 6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS).....	140,223.01	3,693.69
23 52 33 16-0031 EA 7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS).....	144,749.56	3,898.91
23 52 33 16-0032 EA 8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS).....	151,018.31	4,104.11
23 52 33 16-0033 EA 9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS).....	167,735.89	4,309.31
23 52 33 16-0034 EA 10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS).....	241,212.65	4,514.52
23 52 33 16-0035 EA 12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS).....	253,418.42	4,719.72
23 52 36 Fire-Box Boiler (23 52)		
23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36)		
Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP). boiler sizes are based on HP rating and gross output.		
23 52 36 00-0002 EA 40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	39,255.07	2,394.40
23 52 36 00-0003 EA 46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	41,129.37	2,593.93
23 52 36 00-0004 EA 53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	43,137.75	2,793.47
23 52 36 00-0005 EA 61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	46,621.33	2,993.00
23 52 36 00-0006 EA 69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	48,763.78	3,192.53
23 52 36 00-0007 EA 80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	50,872.84	3,392.07
23 52 36 00-0008 EA 100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	56,408.28	3,591.60
23 52 36 00-0009 EA 127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	65,112.20	3,990.66
23 52 36 00-0010 EA 151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	73,956.99	4,389.73
23 52 36 00-0011 EA 183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	81,157.95	4,838.69
23 52 36 00-0012 EA 220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	88,359.02	5,287.63
23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	93,507.72	6,185.54
23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	113,508.91	7,083.43
23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	133,979.47	7,981.34
23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	154,750.20	8,979.00
23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	174,820.88	9,727.25
23 52 39 Fire-Tube Boilers (23 52)		
23 52 39 13 Scotch Marine Boilers (23 52 39)		
23 52 39 13-0001 15 PSI Steam Scotch Marine Boilers (23 52 39 13)		
Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH output.		
23 52 39 13-0002 15 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0003 EA 30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....	31,567.97	1,097.43
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0004 EA 40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....	34,010.15	1,197.20
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0005 EA 50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....	36,935.36	1,296.97
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0006 EA 60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....	38,869.77	1,496.50
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0007 EA 70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler.....	40,785.42	1,596.27
Note: Burnham Series 3. Fire tested factory assembled unit.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0008 EA 80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	42,741.98	1,696.04
23 52 39 13-0009 EA 90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	44,056.83	1,745.92
23 52 39 13-0010 EA 100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	46,415.74	1,795.80
23 52 39 13-0011 EA 125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	52,407.57	1,995.34
23 52 39 13-0012 EA 150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	59,416.27	2,194.86
23 52 39 13-0013 EA 175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	65,190.47	2,419.34
23 52 39 13-0014 EA 200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	70,962.65	2,643.81
23 52 39 13-0015 EA 250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	75,454.46	3,092.77
23 52 39 13-0016 EA 300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	91,332.04	3,541.72
23 52 39 13-0017 EA 350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	99,192.13	3,990.66
23 52 39 13-0018 EA 400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	116,264.95	4,439.62
23 52 39 13-0019 EA 500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	140,207.83	4,888.57
23 52 39 13-0020 EA 600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	163,307.18	5,337.52
23 52 39 13-0021 EA 700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	185,413.51	5,786.46
23 52 39 13-0022 EA 800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	206,686.20	6,235.42
23 52 39 13-0023 EA 900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	227,096.96	6,684.37
23 52 39 13-0024 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	246,779.10	7,133.31
23 52 39 13-0025 15 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0026 EA 30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	29,416.51	1,097.43
23 52 39 13-0027 EA 40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	31,696.75	1,197.20
23 52 39 13-0028 EA 50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	34,420.80	1,296.97
23 52 39 13-0029 EA 60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	37,666.81	1,496.50
23 52 39 13-0030 EA 70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	39,366.53	1,596.27
23 52 39 13-0031 EA 80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	41,061.58	1,696.04
23 52 39 13-0032 EA 90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	42,562.84	1,745.92
23 52 39 13-0033 EA 100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	45,459.54	1,795.80
23 52 39 13-0034 EA 125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	52,453.16	1,995.34
23 52 39 13-0035 EA 150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	59,465.89	2,194.86
23 52 39 13-0036 EA 175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	65,245.46	2,419.34
23 52 39 13-0037 EA 200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	71,023.00	2,643.81
23 52 39 13-0038 EA 250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	75,517.49	3,092.77
23 52 39 13-0039 EA 300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	91,409.82	3,541.72
23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	99,275.27	3,990.66
23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	116,364.19	4,439.62
23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	140,328.53	4,888.57
23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	163,449.34	5,337.52
23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	185,575.78	5,786.46
23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	206,868.59	6,235.42
23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	227,296.78	6,684.37
23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	246,997.70	7,133.31
23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Heating Boilers

23 52**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	32,509.62	1,097.43
23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	35,022.68	1,197.20
23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	38,033.72	1,296.97
23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	40,235.01	1,496.50
23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	42,040.68	1,596.27
23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	43,841.68	1,696.04
23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	45,447.55	1,745.92
23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	47,054.10	1,795.80
23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	54,306.56	1,995.34
23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	61,578.12	2,194.86
23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	67,561.54	2,419.34
23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	73,541.59	2,643.81
23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	78,148.73	3,092.77
23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	94,628.46	3,541.72
23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	102,746.04	3,990.66
23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	120,473.32	4,439.62
23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	145,361.68	4,888.57
23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	169,368.95	5,337.52
23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	192,344.31	5,786.46
23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	214,448.49	6,235.42
23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	235,654.52	6,684.37
23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	256,098.40	7,133.31
23 52 39 13-0071 150 PSI Steam Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH output.		
23 52 39 13-0072 150 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0073 EA 40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	42,776.92	1,197.20
23 52 39 13-0074 EA 50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	46,458.51	1,296.97
23 52 39 13-0075 EA 60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	48,734.90	1,496.50
23 52 39 13-0076 EA 70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	51,105.18	1,596.27
23 52 39 13-0077 EA 80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	53,529.78	1,696.04
23 52 39 13-0078 EA 90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	55,179.91	1,745.92
23 52 39 13-0079 EA 100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	58,186.57	1,795.80
23 52 39 13-0080 EA 125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	65,738.10	1,995.34
23 52 39 13-0081 EA 150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	74,605.57	2,194.86
23 52 39 13-0082 EA 175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	81,844.25	2,419.34
23 52 39 13-0083 EA 200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	89,080.91	2,643.81
23 52 39 13-0084 EA 250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	94,380.06	3,092.77
23 52 39 13-0085 EA 300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	114,483.45	3,541.72
23 52 39 13-0086 EA 350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	124,142.50	3,990.66
23 52 39 13-0087 EA 400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	145,821.45	4,439.62
23 52 39 13-0088 EA 500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	176,413.51	4,888.57

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0089 EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	205,885.77	5,337.52
23 52 39 13-0090 EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	234,095.44	5,786.46
23 52 39 13-0091 EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	261,209.96	6,235.42
23 52 39 13-0092 EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	287,209.09	6,684.37
23 52 39 13-0093 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	312,234.17	7,133.31
23 52 39 13-0094 150 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0095 EA 40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	39,768.83	1,197.20
23 52 39 13-0096 EA 50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	43,190.25	1,296.97
23 52 39 13-0097 EA 60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	47,169.84	1,496.50
23 52 39 13-0098 EA 70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	49,261.17	1,596.27
23 52 39 13-0099 EA 80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	51,346.47	1,696.04
23 52 39 13-0100 EA 90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	53,236.66	1,745.92
23 52 39 13-0101 EA 100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	56,942.03	1,795.80
23 52 39 13-0102 EA 125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	65,795.77	1,995.34
23 52 39 13-0103 EA 150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	74,671.28	2,194.86
23 52 39 13-0104 EA 175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	81,916.67	2,419.34
23 52 39 13-0105 EA 200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	89,160.04	2,643.81
23 52 39 13-0106 EA 250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	94,461.87	3,092.77
23 52 39 13-0107 EA 300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	114,584.03	3,541.72
23 52 39 13-0108 EA 350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	124,251.13	3,990.66
23 52 39 13-0109 EA 400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	145,950.20	4,439.62
23 52 39 13-0110 EA 500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	176,570.42	4,888.57
23 52 39 13-0111 EA 600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	206,070.84	5,337.52
23 52 39 13-0112 EA 700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	234,305.99	5,786.46
23 52 39 13-0113 EA 800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	261,446.00	6,235.42
23 52 39 13-0114 EA 900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	287,469.26	6,684.37
23 52 39 13-0115 EA 1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	312,518.48	7,133.31
23 52 39 13-0116 150 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0117 EA 40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	44,092.54	1,197.20
23 52 39 13-0118 EA 50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	47,886.78	1,296.97
23 52 39 13-0119 EA 60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	50,509.18	1,496.50
23 52 39 13-0120 EA 70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	52,737.30	1,596.27
23 52 39 13-0121 EA 80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	54,959.40	1,696.04
23 52 39 13-0122 EA 90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	56,987.72	1,745.92
23 52 39 13-0123 EA 100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	59,015.37	1,795.80
23 52 39 13-0124 EA 125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	68,205.72	1,995.34
23 52 39 13-0125 EA 150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	77,416.51	2,194.86
23 52 39 13-0126 EA 175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	84,926.10	2,419.34
23 52 39 13-0127 EA 200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	92,435.00	2,643.81
23 52 39 13-0128 EA 250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	97,883.01	3,092.77
23 52 39 13-0129 EA 300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	118,768.26	3,541.72

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Heating Boilers

23 52**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0130 EA 350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	128,762.59	3,990.66
23 52 39 13-0131 EA 400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	151,291.80	4,439.62
23 52 39 13-0132 EA 500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	183,114.98	4,888.57
23 52 39 13-0133 EA 600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	213,766.07	5,337.52
23 52 39 13-0134 EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	243,104.95	5,786.46
23 52 39 13-0135 EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	271,300.40	6,235.42
23 52 39 13-0136 EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	298,333.51	6,684.37
23 52 39 13-0137 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	324,348.32	7,133.31
23 52 39 13-0138 125 PSI Water Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH output.		
23 52 39 13-0139 125 PSI Gas Fired Water Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0140 EA 40 HP, 1,339 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	37,168.44	1,197.20
23 52 39 13-0141 EA 50 HP, 1,674 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	41,621.16	1,296.97
23 52 39 13-0142 EA 60 HP, 2,009 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	44,916.79	1,496.50
23 52 39 13-0143 EA 70 HP, 2,343 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	48,259.37	1,596.27
23 52 39 13-0144 EA 80 HP, 2,678 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	51,665.65	1,696.04
23 52 39 13-0145 EA 90 HP, 3,013 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	54,318.93	1,745.92
23 52 39 13-0146 EA 100 HP, 3,348 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	58,319.34	1,795.80
23 52 39 13-0147 EA 125 HP, 4,184 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	62,700.51	1,995.34
23 52 39 13-0148 EA 150 HP, 5,021 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	68,400.30	2,194.86
23 52 39 13-0149 EA 175 HP, 5,858 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	72,923.26	2,419.34
23 52 39 13-0150 EA 200 HP, 6,695 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	75,771.84	2,643.81
23 52 39 13-0151 EA 250 HP, 8,369 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	91,518.15	3,092.77
23 52 39 13-0152 EA 300 HP, 10,043 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	106,438.19	3,541.72
23 52 39 13-0153 EA 350 HP, 11,716 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	115,076.11	3,990.66
23 52 39 13-0154 EA 400 HP, 13,390 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	128,354.96	4,439.62
23 52 39 13-0155 EA 500 HP, 16,738 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	154,552.24	4,888.57
23 52 39 13-0156 EA 600 HP, 20,085 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	180,176.88	5,337.52
23 52 39 13-0157 EA 700 HP, 23,433 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	204,701.21	5,786.46
23 52 39 13-0158 EA 800 HP, 26,780 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	228,288.64	6,235.42
23 52 39 13-0159 EA 900 HP, 30,128 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	250,913.56	6,684.37
23 52 39 13-0160 EA 1,000 HP, 33,476 MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	272,714.63	7,133.31
23 52 39 13-0161 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0162 EA 40 HP, 1,339 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	34,604.26	1,197.20
23 52 39 13-0163 EA 50 HP, 1,674 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	38,735.11	1,296.97
23 52 39 13-0164 EA 60 HP, 2,009 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	43,491.20	1,496.50
23 52 39 13-0165 EA 70 HP, 2,343 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	46,533.37	1,596.27
23 52 39 13-0166 EA 80 HP, 2,678 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	49,569.52	1,696.04
23 52 39 13-0167 EA 90 HP, 3,013 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	52,410.54	1,745.92
23 52 39 13-0168 EA 100 HP, 3,348 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	57,072.12	1,795.80

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0169 EA 125 HP, 4,184 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	62,755.49	1,995.34
23 52 39 13-0170 EA 150 HP, 5,021 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	68,459.31	2,194.86
23 52 39 13-0171 EA 175 HP, 5,858 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	72,986.29	2,419.34
23 52 39 13-0172 EA 200 HP, 6,695 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	75,837.55	2,643.81
23 52 39 13-0173 EA 250 HP, 8,369 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	91,597.28	3,092.77
23 52 39 13-0174 EA 300 HP, 10,043 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	106,530.72	3,541.72
23 52 39 13-0175 EA 350 HP, 11,716 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	115,175.35	3,990.66
23 52 39 13-0176 EA 400 HP, 13,390 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	128,466.28	4,439.62
23 52 39 13-0177 EA 500 HP, 16,738 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	154,687.69	4,888.57
23 52 39 13-0178 EA 600 HP, 20,085 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	180,336.47	5,337.52
23 52 39 13-0179 EA 700 HP, 23,433 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	204,883.60	5,786.46
23 52 39 13-0180 EA 800 HP, 26,780 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	228,492.49	6,235.42
23 52 39 13-0181 EA 900 HP, 30,128 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	251,137.52	6,684.37
23 52 39 13-0182 EA 1,000 HP, 33,476 MBH Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	272,958.71	7,133.31
23 52 39 13-0183 125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0184 EA 40 HP, 1,339 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	38,289.60	1,197.20
23 52 39 13-0185 EA 50 HP, 1,674 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	42,881.80	1,296.97
23 52 39 13-0186 EA 60 HP, 2,009 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	46,532.82	1,496.50
23 52 39 13-0187 EA 70 HP, 2,343 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	49,788.22	1,596.27
23 52 39 13-0188 EA 80 HP, 2,678 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	53,038.94	1,696.04
23 52 39 13-0189 EA 90 HP, 3,013 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	56,094.54	1,745.92
23 52 39 13-0190 EA 100 HP, 3,348 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	59,150.82	1,795.80
23 52 39 13-0191 EA 125 HP, 4,184 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	65,038.04	1,995.34
23 52 39 13-0192 EA 150 HP, 5,021 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	70,945.70	2,194.86
23 52 39 13-0193 EA 175 HP, 5,858 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	75,624.23	2,419.34
23 52 39 13-0194 EA 200 HP, 6,695 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	78,557.30	2,643.81
23 52 39 13-0195 EA 250 HP, 8,369 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	94,899.06	3,092.77
23 52 39 13-0196 EA 300 HP, 10,043 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	110,379.68	3,541.72
23 52 39 13-0197 EA 350 HP, 11,716 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,308.63	3,990.66
23 52 39 13-0198 EA 400 HP, 13,390 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	133,079.66	4,439.62
23 52 39 13-0199 EA 500 HP, 16,738 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	160,320.31	4,888.57
23 52 39 13-0200 EA 600 HP, 20,085 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	186,960.16	5,337.52
23 52 39 13-0201 EA 700 HP, 23,433 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	212,456.79	5,786.46
23 52 39 13-0202 EA 800 HP, 26,780 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	236,973.60	6,235.42
23 52 39 13-0203 EA 900 HP, 30,128 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	260,489.01	6,684.37
23 52 39 13-0204 EA 1,000 HP, 33,476 MBH Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	283,140.34	7,133.31

23 53 Heating Boiler Feedwater Equipment (23 50)**23 53 13 Boiler Feedwater Pumps (23 53)**

See CSI section 23 53 16 00-0001 for boiler feedwater units.

23 53 16 Deaerators (23 53)**23 53 16 00-0001 Boiler Feed System (23 53 16)**

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Heating Boiler Feedwater Equipment****23 53****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 53 16 00-0002 Low Pressure Boiler Feed System (23 53 16 00-0001)		
Note: With deaerator includes pumps and accessories.		
23 53 16 00-0003 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	5,561.19	1,282.96
23 53 16 00-0004 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	6,072.06	1,511.47
23 53 16 00-0005 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	6,490.35	1,564.42
23 53 16 00-0006 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	6,702.16	1,621.82
23 53 16 00-0007 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	7,101.07	1,733.29
23 53 16 00-0008 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	10,876.01	1,878.19
23 53 16 00-0009 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	12,211.33	2,006.38
23 53 16 00-0010 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	13,989.57	2,285.04
23 53 16 00-0011 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	15,362.07	2,452.25
23 53 16 00-0012 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	16,538.17	2,619.44
23 53 16 00-0013 High Pressure Boiler Feed System (23 53 16 00-0001)		
Note: With deaerator includes pumps and accessories.		
23 53 16 00-0014 EA 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	7,347.25	1,093.81
23 53 16 00-0015 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	7,730.10	1,282.96
23 53 16 00-0016 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	8,651.79	1,511.47
23 53 16 00-0017 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	9,312.09	1,564.42
23 53 16 00-0018 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	9,489.39	1,621.82
23 53 16 00-0019 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	11,338.93	1,733.29
23 53 16 00-0020 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	14,548.51	1,878.19
23 53 16 00-0021 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	14,971.15	2,006.38
23 53 16 00-0022 EA 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	16,430.98	2,148.61
23 53 16 00-0023 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	17,665.52	2,285.04
23 53 16 00-0024 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	18,898.28	2,452.25
23 53 16 00-0025 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	20,383.65	2,619.44
23 53 16 00-0026 Boiler Feedwater System (23 53 16)		
Note: With deaerator includes pumps and accessories.		
23 53 16 00-0027 EA 1,380 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	9,257.88	1,511.47
23 53 16 00-0028 EA 2,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	11,943.57	1,731.62
23 53 16 00-0029 EA 4,300 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	15,604.42	1,981.85
23 53 16 00-0030 EA 6,900 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	18,721.34	2,286.16
23 53 16 00-0031 EA 8,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	19,882.13	2,452.25
23 53 16 00-0032 EA 11,000 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	20,996.30	2,619.44
23 53 16 00-0033 EA 13,800 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	23,418.13	3,009.68
23 53 16 00-0034 EA 17,250 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	30,059.58	3,455.65
23 53 16 00-0035 EA 20,700 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	38,767.28	3,992.92
23 53 16 00-0036 EA 27,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	48,866.48	4,583.46
23 53 16 00-0037 EA 34,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	62,277.36	5,273.43
23 53 16 00-0038 Duplex Vacuum Condensate Pumps (23 53 16)		
23 53 16 00-0039 EA 7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump.....	17,395.97	891.73
Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.		
23 53 16 00-0040 EA 9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump.....	17,820.82	947.46
Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.		
23 53 16 00-0041 EA 12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump.....	18,302.66	1,003.19
Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5.		
23 53 16 00-0042 EA 18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump.....	20,066.54	1,058.93
Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.		
23 53 16 00-0043 EA 28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump.....	23,824.73	1,114.66
Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402.		
23 53 16 00-0044 EA 42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump.....	25,075.79	1,170.39
Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.		
23 54 Furnaces (23 50)		
Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.		
23 54 13 Electric-Resistance Furnaces (23 54)		
23 54 13 00-0001 Down Flow Multi-Speed Air Handler/Electric Furnace (23 54 13)		
23 54 13 00-0002 EA Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	873.52	105.98
Note: Excludes cooling equipment.		
23 54 13 00-0003 EA >2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,143.09	132.48
Note: Excludes cooling equipment.		
23 54 13 00-0004 EA >3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,460.83	158.97
Note: Excludes cooling equipment.		
23 54 13 00-0005 Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace (23 54 13)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 13 00-0006 EA Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace..... Note: Excludes cooling equipment.	873.52	105.98
23 54 13 00-0007 EA >2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace..... Note: Excludes cooling equipment.	1,033.90	119.23
23 54 13 00-0008 EA >2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace..... Note: Excludes cooling equipment.	1,133.05	132.48
23 54 13 00-0009 EA >3 To 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace..... Note: Excludes cooling equipment.	1,196.08	145.73
23 54 13 00-0010 EA >3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace..... Note: Excludes cooling equipment.	1,460.83	158.97
23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace (23 54 13)		
23 54 13 00-0012 EA 5 KW Heating Coil For Air Handler/Electric Furnace.....	159.08	25.97
23 54 13 00-0013 EA 7 KW Heating Coil For Air Handler/Electric Furnace.....	180.51	28.57
23 54 13 00-0014 EA 10 KW Heating Coil For Air Handler/Electric Furnace.....	195.93	31.17
23 54 13 00-0015 EA 15 KW Heating Coil For Air Handler/Electric Furnace.....	256.50	33.76
23 54 13 00-0016 EA 20 KW Heating Coil For Air Handler/Electric Furnace.....	276.91	36.36
23 54 16 Fuel-Fired Furnaces (23 54)		
23 54 16 13 Gas-Fired Furnaces (23 54 16)		
23 54 16 13-0001 Natural Gas Fired Forced Air Furnaces (23 54 16 13)		
Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 13-0002 Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0003 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,266.14	92.74
23 54 16 13-0004 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,359.27	105.98
23 54 16 13-0005 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,563.80	119.23
23 54 16 13-0006 EA 100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,837.38	145.73
23 54 16 13-0007 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,965.64	158.97
23 54 16 13-0008 Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0009 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,394.59	92.74
23 54 16 13-0010 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,533.89	105.98
23 54 16 13-0011 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,636.83	119.23
23 54 16 13-0012 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3.5 tons.	1,779.37	132.48
23 54 16 13-0013 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,938.74	145.73
23 54 16 13-0014 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,051.95	158.97
23 54 16 13-0015 Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0016 EA 45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,244.01	92.74
23 54 16 13-0017 EA 70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,427.47	105.98
23 54 16 13-0018 EA 90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,573.59	132.48
23 54 16 13-0019 EA 90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,686.80	145.73
23 54 16 13-0020 Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0021 EA 40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,591.30	92.74
23 54 16 13-0022 EA 60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,688.45	105.98
23 54 16 13-0023 EA 80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,881.94	119.23
23 54 16 13-0024 EA 100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	2,078.24	145.73
23 54 16 13-0025 EA 120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	2,231.59	158.97
23 54 16 13-0026 Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0027 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 3 tons.	1,143.69	92.74

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central Heating Equipment

23 50

Furnaces

23 54**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0028 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,217.76	105.98
23 54 16 13-0029 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,360.07	119.23
23 54 16 13-0030 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,370.10	119.23
23 54 16 13-0031 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,498.36	132.48
23 54 16 13-0032 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,588.49	145.73
23 54 16 13-0033 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,690.65	158.97
23 54 16 13-0034 Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0035 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	835.59	92.74
23 54 16 13-0036 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	920.69	105.98
23 54 16 13-0037 EA 60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,049.96	119.23
23 54 16 13-0038 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,050.96	119.23
23 54 16 13-0039 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,156.14	132.48
23 54 16 13-0040 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,201.10	145.73
23 54 16 13-0041 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,330.36	158.97
23 54 16 13-0042 Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0043 EA 40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	845.62	92.74
23 54 16 13-0044 EA 60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	923.70	105.98
23 54 16 13-0045 EA 80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,095.12	119.23
23 54 16 13-0046 EA 100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,207.32	132.48
23 54 16 13-0047 75% AFUE Gas Wall/Recessed Furnace (23 54 16 13-0001)		
23 54 16 13-0048 EA 35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace 23 54 16 13-0049 EA 55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace 23 54 16 13-0050 EA 35 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0051 EA 40 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0052 EA 50 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0053 EA 65 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0054 EA 75 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,322.49 1,537.47 1,207.08 1,291.79 1,291.18 1,335.80 1,378.02	79.49 99.41 79.49 86.16 92.74 99.41 99.41
23 54 16 13-0055 Gas Fired Indoor Duct Furnace (23 54 16 13-0001) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0056 Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)		
23 54 16 13-0057 EA 100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0058 EA 150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0059 EA 200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0060 EA 250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0061 EA 300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0062 EA 350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0063 EA 400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	1,484.50 1,669.99 1,947.76 2,197.51 2,558.05 2,843.73 3,318.70	206.67 254.36 365.63 413.32 476.91 572.29 763.06
23 54 16 13-0064 Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0065 EA 100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0066 EA 150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0067 EA 200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0068 EA 250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0069 EA 300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0070 EA 350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0071 EA 400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	1,645.88 1,828.96 2,166.14 2,455.24 3,002.85 3,326.26 3,774.74	206.67 254.36 365.63 413.32 476.91 572.29 763.06
23 54 16 16 Oil-Fired Furnaces (23 54 16)		
23 54 16 16-0001 Oil Fired Forced Air Furnaces (23 54 16 16) Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 16-0002 Up Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 16-0003 EA 72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace..... Note: Blower cooling capacity up to 3 tons.	2,101.93	105.98
23 54 16 16-0004 EA 95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 4 tons.	2,282.98	145.73
23 54 16 16-0005 EA 126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 5 tons.	2,640.86	172.21
23 54 16 16-0006 Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0007 EA 95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 3 tons.	2,469.65	145.73
23 54 16 16-0008 EA 126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace Note: Blower cooling capacity up to 5 tons.	2,527.46	172.21
23 54 16 16-0009 Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0010 EA 95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 4 tons.	2,164.55	145.73
23 54 16 16-0011 EA 127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 5 tons.	2,568.60	172.21
23 54 19 Furnace Accessories (23 54)		
23 54 19 00-0001 EA LP Gas Furnace Conversion Kit.....	151.13	26.50
23 54 19 00-0002 EA 1" Furnace External Filter Rack	43.55	
23 54 19 00-0003 EA Removal And Reinstallation Of Forced Air Furnace..... Note: Includes storage and cleaning. Excludes ductwork.	490.65	
23 55 Fuel-Fired Heaters (23 50)		
23 55 23 Gas-Fired Radiant Heaters (23 55)		
23 55 23 13 Low-Intensity Gas-Fired Radiant Heaters (23 55 23)		
23 55 23 13-0001 Infrared Heaters-Radiant Energy (23 55 23 13) Note: For spot localized or total heating, ceiling hung units, no fan required.		
23 55 23 13-0002 Gas Fired Electric Ignition Infrared Gas Heater (23 55 23 13-0001) Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.		
23 55 23 13-0003 EA 15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	822.41	111.46
23 55 23 13-0004 EA 37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	916.44	122.61
23 55 23 13-0005 EA 50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	975.41	122.61
23 55 23 13-0006 EA 75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,219.62	147.14
23 55 23 13-0007 EA 100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,229.56	147.14
23 55 23 13-0008 Rolled Steel Or Aluminum Housing Infrared Electric Heater (23 55 23 13-0001) Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element.		
23 55 23 13-0009 EA 1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	915.99 140.68	116.58
23 55 23 13-0010 EA 3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	976.59 155.83	116.58
23 55 23 13-0011 EA 5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	1,045.85 173.15	116.58
23 55 23 13-0012 EA 7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	1,129.11 193.96	116.58
23 55 23 13-0013 EA 10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	1,230.17 216.13	127.18
23 55 23 13-0014 EA 13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	1,312.91 232.76	137.77
23 55 23 13-0015 EA 24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... For Stainless Steel Housing, Add	2,086.87 415.64	148.37
23 55 23 13-0016 Gas Fired Tubular Infrared Heater (23 55 23 13-0001) Note: Includes controls and supports.		
23 55 23 13-0017 "U" Package (23 55 23 13-0016)		
23 55 23 13-0018 LF Up To 75 MBH Input Radiant Heater	59.93	5.57
23 55 23 13-0019 LF 76 To 105 MBH Input Radiant Heater	69.44	6.68
23 55 23 13-0020 LF 106 To 130 MBH Input Radiant Heater	84.02	7.80
23 55 23 13-0021 "S" Straight Package (23 55 23 13-0016)		
23 55 23 13-0022 LF Up To 75 MBH Input Radiant Heater	49.06	4.46
23 55 23 13-0023 LF 76 To 105 MBH Input Radiant Heater.....	61.78	5.57
23 55 23 13-0024 LF 106 To 130 MBH Input Radiant Heater	74.50	6.68
23 55 33 Fuel-Fired Unit Heaters (23 55)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Heating Equipment****23 50****Fuel-Fired Heaters****23 55****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 33 00-0001 Gas Fired Unit Heaters (23 55 33)		
23 55 33 00-0002 Horizontal Fan Propelled Gas Fired Unit Heaters, 115 Volt (23 55 33 00-0001)		
23 55 33 00-0003 EA 24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,325.82	192.38
23 55 33 00-0004 EA 36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,467.43	230.86
23 55 33 00-0005 EA 48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,487.14	230.86
23 55 33 00-0006 EA 60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,638.27	269.33
23 55 33 00-0007 EA 72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,811.42	307.81
23 55 33 00-0008 EA 81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,941.38	327.05
23 55 33 00-0009 EA 101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,991.09	327.05
23 55 33 00-0010 EA 121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,948.49	327.05
23 55 33 00-0011 EA 141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,282.78	346.28
23 55 33 00-0012 EA 162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,476.83	346.28
23 55 33 00-0013 EA 202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,637.75	346.28
23 55 33 00-0014 EA 243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,129.76	384.76
23 55 33 00-0015 EA 283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,494.20	384.76
23 55 33 00-0016 EA 324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,757.23	423.24
23 55 33 00-0017 Oil Fired Unit Heater (23 55 33)		
23 55 33 00-0018 Horizontal Fan Propelled Oil Fired Unit Heater, 115 Volt (23 55 33 00-0017)		
23 55 33 00-0019 EA 97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	5,097.94	513.01
23 55 33 00-0020 EA 142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	5,479.66	564.31
23 55 33 00-0021 EA 188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	5,893.39	615.61
23 55 33 00-0022 Removal And Reinstallation Of Unit Heaters (23 55 33)		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 55 33 00-0023 EA Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater.....	640.93	
23 55 33 00-0024 EA Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater	863.86	
23 57 Heat Exchangers for HVAC (23 50)		
23 57 13 Steam-To-Steam Heat Exchangers (23 57)		
23 57 13 00-0001 Steam Generator Heat Exchanger (23 57 13)		
Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve.		
23 57 13 00-0002 EA 75 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	12,561.87	1,783.45
23 57 13 00-0003 EA 300 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	16,490.53	1,894.91
23 57 13 00-0004 EA 525 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	21,882.00	2,247.51
23 57 16 Steam-To-Water Heat Exchangers (23 57)		
23 57 16 00-0001 Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI (23 57 16)		
Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories.		
23 57 16 00-0002 EA 8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	1,443.08	278.66
For Bronze Head And Tube Sheet, Add		482.18
For Copper Nickel Tubes, Add		107.15
For Double Wall Tube Bundles, Add		160.73
23 57 16 00-0003 EA 10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	2,068.45	278.66
For Bronze Head And Tube Sheet, Add		730.17
For Copper Nickel Tubes, Add		162.26
For Double Wall Tube Bundles, Add		243.39
23 57 16 00-0004 EA 40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	3,067.74	390.13
For Bronze Head And Tube Sheet, Add		1,129.69
For Copper Nickel Tubes, Add		251.04
For Double Wall Tube Bundles, Add		376.56
23 57 16 00-0005 EA 64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	4,941.52	390.13
For Bronze Head And Tube Sheet, Add		1,722.09
For Copper Nickel Tubes, Add		382.69
For Double Wall Tube Bundles, Add		574.03
23 57 16 00-0006 EA 96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	6,475.39	459.24
For Bronze Head And Tube Sheet, Add		2,286.93
For Copper Nickel Tubes, Add		508.21
For Double Wall Tube Bundles, Add		762.31
23 57 16 00-0007 EA 120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	8,443.10	557.18
For Bronze Head And Tube Sheet, Add		3,003.32
For Copper Nickel Tubes, Add		667.40
For Double Wall Tube Bundles, Add		1,001.11
23 57 16 00-0008 EA 168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	10,473.96	836.28
For Bronze Head And Tube Sheet, Add		3,678.38
For Copper Nickel Tubes, Add		817.42
For Double Wall Tube Bundles, Add		1,226.13
23 57 16 00-0009 EA 240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	15,610.52	836.28
For Bronze Head And Tube Sheet, Add		5,731.11
For Copper Nickel Tubes, Add		1,273.58
For Double Wall Tube Bundles, Add		1,910.37

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 57 Heat Exchangers for HVAC**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)**23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers (23 57 19)****23 57 19 13-0001 Plate And Frame Heat Exchanger (23 57 19 13)**

23 57 19 13-0002	EA	8" W x 18-7/8"H Plate And Frame Heat Exchanger	2,262.93	278.66
23 57 19 13-0003	EA	8" W x 24-9/16"H Plate And Frame Heat Exchanger	2,928.53	278.66
23 57 19 13-0004	EA	11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger	3,871.96	334.39
23 57 19 13-0005	EA	16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger	5,175.77	362.27
23 57 19 13-0006	EA	16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger	5,633.38	362.27
23 57 19 13-0007	EA	24" W x 57-11/16"H Plate And Frame Heat Exchanger	7,269.99	390.13
23 57 19 13-0008	EA	26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger	7,644.40	390.13
23 57 19 13-0009	EA	24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger	9,419.77	445.86
23 57 19 13-0010	EA	24" W x 69-11/16"H Plate And Frame Heat Exchanger	11,486.36	501.59
23 57 19 13-0011	EA	26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger	11,902.37	501.59
23 57 19 13-0012	EA	24" W x 89-13/16"H Plate And Frame Heat Exchanger	14,669.96	564.49
23 57 19 13-0013	EA	26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger	17,655.21	620.84
23 57 19 13-0014	EA	40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger	20,349.13	677.18

23 57 19 19 Water-To-Water Heat Exchanger (23 57 19)**23 57 19 19-0001 Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)**

Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.

23 57 19 19-0002	EA	7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	1,688.00	278.66
		For Copper Nickel Tubes, Add	131.64	
		For Double Wall Tube Bundles, Add	197.47	
23 57 19 19-0003	EA	16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	2,313.37	278.66
		For Copper Nickel Tubes, Add	186.75	
		For Double Wall Tube Bundles, Add	280.13	
23 57 19 19-0004	EA	34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	3,404.50	390.13
		For Copper Nickel Tubes, Add	284.72	
		For Double Wall Tube Bundles, Add	427.08	
23 57 19 19-0005	EA	55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	4,845.49	390.13
		For Copper Nickel Tubes, Add	410.24	
		For Double Wall Tube Bundles, Add	615.36	
23 57 19 19-0006	EA	74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	6,020.72	445.86
		For Copper Nickel Tubes, Add	505.15	
		For Double Wall Tube Bundles, Add	757.72	
23 57 19 19-0007	EA	86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	7,969.82	445.86
		For Copper Nickel Tubes, Add	679.65	
		For Double Wall Tube Bundles, Add	1,019.48	
23 57 19 19-0008	EA	112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	9,802.53	418.15
		For Copper Nickel Tubes, Add	844.97	
		For Double Wall Tube Bundles, Add	1,267.46	
23 57 19 19-0009	EA	126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	12,174.22	418.15
		For Copper Nickel Tubes, Add	1,053.15	
		For Double Wall Tube Bundles, Add	1,579.73	
23 57 19 19-0010	EA	152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	15,561.25	418.15
		For Copper Nickel Tubes, Add	1,347.05	
		For Double Wall Tube Bundles, Add	2,020.58	

23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)**23 57 19 23-0001 Heat Exchanger Refrigerant To Water (23 57 19 23)**

23 57 19 23-0002	EA	10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	1,919.47	222.93
		For Copper Nickel Tubes, Add	147.36	
		For Double Wall Tube Bundles, Add	221.04	
23 57 19 23-0003	EA	53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	4,910.72	371.52
		For Copper Nickel Tubes, Add	416.76	
		For Double Wall Tube Bundles, Add	625.14	
23 57 19 23-0004	EA	70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	6,601.64	484.65
		For Copper Nickel Tubes, Add	563.41	
		For Double Wall Tube Bundles, Add	845.11	
23 57 19 23-0005	EA	87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	7,142.57	586.65
		For Copper Nickel Tubes, Add	597.17	
		For Double Wall Tube Bundles, Add	895.76	
23 57 19 23-0006	EA	105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	8,554.68	664.11
		For Copper Nickel Tubes, Add	720.50	
		For Double Wall Tube Bundles, Add	1,080.76	

23 60 Central Cooling Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 00-0001 for disconnect.

23 61 Refrigerant Compressors (23 60)**23 61 16 Reciprocating Refrigerant Compressors (23 61)**

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Cooling Equipment****23 60****Refrigerant Compressors****23 61****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 61 16 00-0001 Reciprocating Open Type Refrigerant Compressors (23 61 16) Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.		
23 61 16 00-0002 EA 1/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	426.43	100.59
23 61 16 00-0003 EA 1/3 Ton Refrigerant Compressor, Reciprocating Open Type.....	488.56	100.59
23 61 16 00-0004 EA 1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	652.77	125.70
23 61 16 00-0005 EA 3/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	780.92	125.70
23 61 16 00-0006 EA 1 Ton Refrigerant Compressor, Reciprocating Open Type.....	858.59	125.70
23 61 16 00-0007 EA 1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	873.18	130.77
23 61 16 00-0008 EA 1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	877.71	130.77
23 61 16 00-0009 EA 1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	961.26	140.82
23 61 16 00-0010 EA 2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,033.16	150.89
23 61 16 00-0011 EA 2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,123.17	160.95
23 61 16 00-0012 EA 3 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,256.50	160.95
23 61 16 00-0013 EA 3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,400.88	171.00
23 61 16 00-0014 EA 4 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,436.55	181.07
23 61 16 00-0015 EA 4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,462.12	186.05
23 61 16 00-0016 EA 5 Ton Refrigerant Compressor, Reciprocating Open Type.....	2,595.05	973.95
23 61 16 00-0017 EA 7.5 Ton Refrigerant Compressor, Reciprocating Open Type.....	3,666.67	1,113.04
23 61 16 00-0018 EA 10 Ton Refrigerant Compressor, Reciprocating Open Type.....	4,738.41	1,252.21
23 61 16 00-0019 EA 12.5 Ton Refrigerant Compressor, Reciprocating Open Type.....	6,054.80	1,356.47
23 61 16 00-0020 EA 15 Ton Refrigerant Compressor, Reciprocating Open Type.....	7,371.50	1,460.92
23 61 16 00-0021 EA 20 Ton Refrigerant Compressor, Reciprocating Open Type.....	8,845.79	1,753.11
23 61 16 00-0022 EA 25 Ton Refrigerant Compressor, Reciprocating Open Type.....	10,488.64	1,884.25
23 61 16 00-0023 EA 30 Ton Refrigerant Compressor, Reciprocating Open Type.....	12,052.60	1,992.17
23 61 16 00-0024 EA 50 Ton Refrigerant Compressor, Reciprocating Open Type.....	15,542.84	2,247.60
23 61 16 00-0025 EA 60 Ton Refrigerant Compressor, Reciprocating Open Type.....	18,091.16	2,306.54
23 61 16 00-0026 EA 70 Ton Refrigerant Compressor, Reciprocating Open Type.....	22,279.26	2,365.39
23 61 16 00-0027 EA 75 Ton Refrigerant Compressor, Reciprocating Open Type.....	23,335.56	2,394.92
23 61 16 00-0028 EA 80 Ton Refrigerant Compressor, Reciprocating Open Type.....	24,348.87	2,424.34
23 61 16 00-0029 EA 90 Ton Refrigerant Compressor, Reciprocating Open Type.....	26,247.70	2,483.19
23 61 16 00-0030 EA 100 Ton Refrigerant Compressor, Reciprocating Open Type.....	27,977.29	2,542.22
23 61 16 00-0031 EA 110 Ton Refrigerant Compressor, Reciprocating Open Type.....	29,964.50	2,759.45
23 61 16 00-0032 EA 120 Ton Refrigerant Compressor, Reciprocating Open Type.....	31,351.90	2,821.20
23 61 16 00-0033 EA 130 Ton Refrigerant Compressor, Reciprocating Open Type.....	32,530.53	2,857.12
23 61 16 00-0034 EA 140 Ton Refrigerant Compressor, Reciprocating Open Type.....	33,616.94	2,945.51
23 61 16 00-0035 EA 150 Ton Refrigerant Compressor, Reciprocating Open Type.....	34,491.06	3,007.26
23 61 16 00-0036 EA 175 Ton Refrigerant Compressor, Reciprocating Open Type.....	35,395.48	3,089.68
23 61 16 00-0037 EA 185 Ton Refrigerant Compressor, Reciprocating Open Type.....	36,225.21	3,122.90
23 61 16 00-0038 EA 200 Ton Refrigerant Compressor, Reciprocating Open Type.....	37,083.67	3,174.58
23 61 16 00-0039 EA 225 Ton Refrigerant Compressor, Reciprocating Open Type.....	38,197.66	3,388.67
23 61 16 00-0040 EA 250 Ton Refrigerant Compressor, Reciprocating Open Type.....	39,260.58	3,571.35
23 61 16 00-0041 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16) Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.		
23 61 16 00-0042 Reciprocating Hermetic Type Refrigerant Compressors <5 Tons (23 61 16 00-0041)		
23 61 16 00-0043 EA 1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	664.07	100.59
23 61 16 00-0044 EA 1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	683.76	100.59
23 61 16 00-0045 EA 1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	753.75	125.70
23 61 16 00-0046 EA 3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	773.45	125.70
23 61 16 00-0047 EA 1 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	783.29	125.70
23 61 16 00-0048 EA 1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	809.11	130.77
23 61 16 00-0049 EA 1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	830.78	130.77
23 61 16 00-0050 EA 1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	892.26	140.82
23 61 16 00-0051 EA 2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	951.78	150.89
23 61 16 00-0052 EA 2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,030.98	160.95
23 61 16 00-0053 EA 3 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,070.37	160.95
23 61 16 00-0054 EA 3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,149.57	171.00
23 61 16 00-0055 EA 4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,346.97	181.07
23 61 16 00-0056 EA 4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,465.34	186.05
23 61 16 00-0057 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16 00-0041)		
23 61 16 00-0058 EA 5 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,959.87	500.88
23 61 16 00-0059 EA 10 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	3,528.20	626.11
23 61 16 00-0060 EA 15 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	5,717.32	762.23
23 61 16 00-0061 EA 20 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	7,224.90	876.55
23 61 16 00-0062 EA 25 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	7,982.82	973.95
23 61 16 00-0063 EA 30 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	8,860.37	1,095.69
23 61 16 00-0064 EA 35 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	11,358.76	1,252.21
23 61 16 00-0065 EA 40 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	14,388.78	1,252.21
23 61 16 00-0066 EA 50 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	17,718.82	1,460.92
23 61 16 00-0067 EA 60 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	19,899.37	1,565.27
23 61 16 00-0068 EA 70 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	21,016.98	1,640.39
23 61 16 00-0069 EA 75 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	21,627.75	1,721.42
23 61 16 00-0070 EA 80 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	22,215.92	1,728.10
23 61 16 00-0071 EA 90 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	23,332.76	1,809.41
23 61 16 00-0072 EA 100 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	24,456.23	1,884.25

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 61 Refrigerant Compressors**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 61 19 Scroll Refrigerant Compressors (23 61)****23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)**

23 61 19 00-0002	EA	Up To 3 Ton Scroll Refrigerant Compressor.....	1,013.94	160.75
23 61 19 00-0003	EA	3.5 Ton Scroll Refrigerant Compressor.....	1,064.59	171.10
23 61 19 00-0004	EA	4 Ton Scroll Refrigerant Compressor.....	1,093.93	180.97
23 61 19 00-0005	EA	4.5 Ton Scroll Refrigerant Compressor.....	1,116.26	186.14
23 61 19 00-0006	EA	5 Ton Scroll Refrigerant Compressor.....	1,385.49	235.03
23 61 19 00-0007	EA	7.5 Ton Scroll Refrigerant Compressor.....	2,583.54	352.54
23 61 19 00-0008	EA	8.75 Ton Scroll Refrigerant Compressor.....	2,960.56	411.29
23 61 19 00-0009	EA	10 Ton Scroll Refrigerant Compressor.....	3,322.31	470.05
23 61 19 00-0010	EA	12 Ton Scroll Refrigerant Compressor.....	4,012.85	564.06
23 61 19 00-0011	EA	13.5 Ton Scroll Refrigerant Compressor.....	4,713.96	634.57
23 61 19 00-0012	EA	15 Ton Scroll Refrigerant Compressor.....	5,506.54	705.08
23 61 19 00-0013	EA	20 Ton Scroll Refrigerant Compressor.....	7,729.71	940.11
23 61 19 00-0014	EA	25 Ton Scroll Refrigerant Compressor.....	8,780.69	1,175.13
23 61 19 00-0015	EA	30 Ton Scroll Refrigerant Compressor.....	9,476.85	1,410.16

23 61 23 Rotary-Screw Refrigerant Compressors (23 61)**23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)**

23 61 23 00-0002	EA	75 Ton Refrigerant Compressor, Rotary Screw Type.....	25,507.57	2,394.92
23 61 23 00-0003	EA	80 Ton Refrigerant Compressor, Rotary Screw Type.....	26,258.15	2,424.34
23 61 23 00-0004	EA	90 Ton Refrigerant Compressor, Rotary Screw Type.....	27,882.05	2,483.19
23 61 23 00-0005	EA	100 Ton Refrigerant Compressor, Rotary Screw Type.....	29,490.99	2,542.22
23 61 23 00-0006	EA	110 Ton Refrigerant Compressor, Rotary Screw Type.....	31,797.79	2,759.45
23 61 23 00-0007	EA	120 Ton Refrigerant Compressor, Rotary Screw Type.....	33,676.73	2,821.20
23 61 23 00-0008	EA	130 Ton Refrigerant Compressor, Rotary Screw Type.....	35,501.40	2,857.12
23 61 23 00-0009	EA	140 Ton Refrigerant Compressor, Rotary Screw Type.....	37,424.98	2,945.51
23 61 23 00-0010	EA	150 Ton Refrigerant Compressor, Rotary Screw Type.....	39,302.70	3,007.26
23 61 23 00-0011	EA	170 Ton Refrigerant Compressor, Rotary Screw Type.....	41,935.67	3,089.68
23 61 23 00-0012	EA	185 Ton Refrigerant Compressor, Rotary Screw Type.....	43,781.88	3,122.90
23 61 23 00-0013	EA	200 Ton Refrigerant Compressor, Rotary Screw Type.....	44,658.61	3,174.58
23 61 23 00-0014	EA	215 Ton Refrigerant Compressor, Rotary Screw Type.....	50,033.59	3,388.67
23 61 23 00-0015	EA	225 Ton Refrigerant Compressor, Rotary Screw Type.....	55,303.24	3,571.35

23 62 Packaged Compressor and Condenser Units (23 60)**23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)****23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)**

Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0002	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	5,758.07	434.33
23 62 13 00-0003	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	13,455.74	434.33
23 62 13 00-0004	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	24,090.43	434.33
23 62 13 00-0005	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	28,690.67	496.37
23 62 13 00-0006	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	34,286.16	620.47
23 62 13 00-0007	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	38,093.52	754.90
23 62 13 00-0008	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	39,209.16	895.50
23 62 13 00-0009	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	42,055.66	977.58
23 62 13 00-0010	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	44,811.91	1,024.46
23 62 13 00-0011	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	51,559.23	1,212.00
23 62 13 00-0012	EA	75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	58,322.85	1,396.55
23 62 13 00-0013	EA	80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	61,595.50	1,404.76
23 62 13 00-0014	EA	90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	69,705.35	1,500.09
23 62 13 00-0015	EA	100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	76,304.01	1,589.39

23 62 13 00-0016 Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)

Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0017	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	5,467.02	434.33
23 62 13 00-0018	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	11,799.17	434.33
23 62 13 00-0019	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	18,731.19	434.33
23 62 13 00-0020	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	20,297.84	496.37
23 62 13 00-0021	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	21,958.49	620.47
23 62 13 00-0022	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	26,177.11	754.90
23 62 13 00-0023	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	29,738.39	895.50
23 62 13 00-0024	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	38,157.87	973.09
23 62 13 00-0025	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	42,785.67	1,024.46
23 62 13 00-0026	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	46,643.68	1,210.50



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central Cooling Equipment			23 60
Packaged Compressor and Condenser Units			23 62

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 62 13 00-0027	EA		75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	53,454.82	1,396.55
23 62 13 00-0028	EA		80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	56,573.06	1,404.76
23 62 13 00-0029	EA		90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	62,177.97	1,500.09
23 62 13 00-0030	EA		100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	71,080.05	1,589.39

23 62 13 00-0031 Packaged Chiller With Remote Air Cooled Condenser (23 62 13)

Note: With remote air cooled condenser rated by cooling capacity. Units are factory assembled package type and include hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.

23 62 13 00-0032	EA		15 Ton Packaged Chiller With Remote Air Cooled Condensers	37,076.31	7,677.21
			For Gas Fired Engine Driven, Add	6,264.26	
23 62 13 00-0033	EA		20 Ton Packaged Chiller With Remote Air Cooled Condensers	41,774.26	8,092.18
			For Gas Fired Engine Driven, Add	7,141.64	
23 62 13 00-0034	EA		25 Ton Packaged Chiller With Remote Air Cooled Condensers	48,402.64	8,806.12
			For Gas Fired Engine Driven, Add	8,360.27	
23 62 13 00-0035	EA		30 Ton Packaged Chiller With Remote Air Cooled Condensers	54,044.64	9,356.55
			For Gas Fired Engine Driven, Add	9,406.15	
23 62 13 00-0036	EA		40 Ton Packaged Chiller With Remote Air Cooled Condensers	67,352.65	10,324.46
			For Gas Fired Engine Driven, Add	11,922.64	
23 62 13 00-0037	EA		50 Ton Packaged Chiller With Remote Air Cooled Condensers	74,204.40	10,693.15
			For Gas Fired Engine Driven, Add	13,237.70	
23 62 13 00-0038	EA		60 Ton Packaged Chiller With Remote Air Cooled Condensers	80,624.99	11,515.71
			For Gas Fired Engine Driven, Add	14,398.50	
23 62 13 00-0039	EA		70 Ton Packaged Chiller With Remote Air Cooled Condensers	97,811.12	12,321.42
			For Gas Fired Engine Driven, Add	17,691.85	
23 62 13 00-0040	EA		75 Ton Packaged Chiller With Remote Air Cooled Condensers	98,940.11	12,548.74
			For Gas Fired Engine Driven, Add	17,906.64	
23 62 13 00-0041	EA		80 Ton Packaged Chiller With Remote Air Cooled Condensers	100,777.05	13,094.39
			For Gas Fired Engine Driven, Add	18,192.23	
23 62 13 00-0042	EA		90 Ton Packaged Chiller With Remote Air Cooled Condensers	111,714.79	13,689.61
			For Gas Fired Engine Driven, Add	20,290.55	
23 62 13 00-0043	EA		100 Ton Packaged Chiller With Remote Air Cooled Condensers	123,499.14	14,341.52
			For Gas Fired Engine Driven, Add	22,549.68	
23 62 13 00-0044	EA		110 Ton Packaged Chiller With Remote Air Cooled Condensers	136,822.18	15,058.55
			For Gas Fired Engine Driven, Add	25,106.78	
23 62 13 00-0045	EA		120 Ton Packaged Chiller With Remote Air Cooled Condensers	147,891.11	15,851.13
			For Gas Fired Engine Driven, Add	27,201.75	
23 62 13 00-0046	EA		140 Ton Packaged Chiller With Remote Air Cooled Condensers	163,106.12	16,731.73
			For Gas Fired Engine Driven, Add	30,112.72	

23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units (23 62)**23 62 23 00-0001 Water Cooled Condensing Units** (23 62 23)

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

23 62 23 00-0002	EA		5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	4,576.10	713.09
23 62 23 00-0003	EA		10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	6,914.61	1,041.41
23 62 23 00-0004	EA		15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	7,874.17	1,128.63
23 62 23 00-0005	EA		20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	9,734.20	1,354.35
23 62 23 00-0006	EA		30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	10,601.21	1,593.42
23 62 23 00-0007	EA		60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	21,622.66	2,232.58
23 62 23 00-0008	EA		80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	26,787.91	2,694.53
23 62 23 00-0009	EA		120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	36,560.69	2,948.22

23 63 Refrigerant Condensers (23 63)**23 63 13 Air-Cooled Refrigerant Condensers** (23 63)**23 63 13 00-0001 Air Cooled Condensing Units** (23 63 13)

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.

23 63 13 00-0002	EA		6 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	4,254.77	713.09
			For >10 To 25, Deduct	-95.24	
			For >25 To 50, Deduct	-158.74	
			For >50, Deduct	-253.98	
			For Low Ambient Protection, 0 Degree F, Add	682.72	
			For Winter Start Control, Add	234.99	
23 63 13 00-0003	EA		7.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	5,092.23	846.47
			For >10 To 25, Deduct	-114.29	
			For >25 To 50, Deduct	-190.48	
			For >50, Deduct	-304.78	
			For Low Ambient Protection, 0 Degree F, Add	625.41	
			For Winter Start Control, Add	204.45	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 63 Refrigerant Condensers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0004	EA		10 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	6,589.91	1,041.41
			For >10 To 25, Deduct	-150.34	
			For >25 To 50, Deduct	-250.57	
			For >50, Deduct	-400.91	
			For Low Ambient Protection, 0 Degree F, Add	745.42	
			For Winter Start Control, Add	258.08	
23 63 13 00-0005	EA		12.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	8,046.52	1,083.48
			For >10 To 25, Deduct	-192.15	
			For >25 To 50, Deduct	-320.24	
			For >50, Deduct	-512.39	
			For Low Ambient Protection, 0 Degree F, Add	858.75	
			For Winter Start Control, Add	292.26	
23 63 13 00-0006	EA		15 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	9,508.41	1,128.63
			For >10 To 25, Deduct	-233.95	
			For >25 To 50, Deduct	-389.92	
			For >50, Deduct	-623.87	
			For Low Ambient Protection, 0 Degree F, Add	895.41	
			For Winter Start Control, Add	248.99	
23 63 13 00-0007	EA		20 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	12,202.70	1,354.35
			For >10 To 25, Deduct	-304.52	
			For >25 To 50, Deduct	-507.53	
			For >50, Deduct	-812.05	
			For Low Ambient Protection, 0 Degree F, Add	1,122.05	
			For Winter Start Control, Add	306.71	
23 63 13 00-0008	EA		25 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	13,839.18	1,456.96
			For >10 To 25, Deduct	-349.01	
			For >25 To 50, Deduct	-581.68	
			For >50, Deduct	-930.69	
			For Low Ambient Protection, 0 Degree F, Add	1,191.24	
			For Winter Start Control, Add	336.89	
23 63 13 00-0009	EA		30 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	15,829.67	1,590.34
			For >10 To 25, Deduct	-402.70	
			For >25 To 50, Deduct	-671.17	
			For >50, Deduct	-1,073.87	
			For Low Ambient Protection, 0 Degree F, Add	1,272.74	
			For Winter Start Control, Add	374.86	
23 63 13 00-0010	EA		40 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	21,467.67	1,775.91
			For >10 To 25, Deduct	-561.87	
			For >25 To 50, Deduct	-936.44	
			For >50, Deduct	-1,498.31	
			For Low Ambient Protection, 0 Degree F, Add	1,621.15	
			For Winter Start Control, Add	461.17	
23 63 13 00-0011	EA		50 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	26,103.09	2,232.58
			For >10 To 25, Deduct	-679.80	
			For >25 To 50, Deduct	-1,133.00	
			For >50, Deduct	-1,812.80	
			For Low Ambient Protection, 0 Degree F, Add	1,767.17	
			For Winter Start Control, Add	457.61	
23 63 13 00-0012	EA		60 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	29,994.34	2,464.07
			For >10 To 25, Deduct	-788.84	
			For >25 To 50, Deduct	-1,314.73	
			For >50, Deduct	-2,103.56	
			For Low Ambient Protection, 0 Degree F, Add	1,976.73	
			For Winter Start Control, Add	501.45	
23 63 13 00-0013	EA		80 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	38,672.80	2,694.53
			For >10 To 25, Deduct	-1,035.52	
			For >25 To 50, Deduct	-1,725.87	
			For >50, Deduct	-2,761.39	
			For Low Ambient Protection, 0 Degree F, Add	2,419.56	
			For Winter Start Control, Add	588.13	
23 63 13 00-0014	EA		100 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	53,135.30	2,426.13
			For >10 To 25, Deduct	-1,445.89	
			For >25 To 50, Deduct	-2,409.82	
			For >50, Deduct	-3,855.71	
			For Low Ambient Protection, 0 Degree F, Add	2,680.61	
			For Winter Start Control, Add	734.87	
23 63 13 00-0015	EA		120 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	65,192.03	2,508.37
			For >10 To 25, Deduct	-1,802.57	
			For >25 To 50, Deduct	-3,004.29	
			For >50, Deduct	-4,806.86	
			For Low Ambient Protection, 0 Degree F, Add	3,079.14	

23 63 13 00-0016 Air Cooled Condensing Units (23 63 13)

Note: Include compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 13 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Excludes piping and power wiring.

23 63 13 00-0017	EA		1.5 Ton, 13 SEER, Air Cooled Condensing Unit	1,701.82	345.33
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			For >10 To 25, Deduct	-35.51	
			For >25 To 50, Deduct	-59.19	
			For >50, Deduct	-94.71	
			For 14 SEER, Add	248.60	
			For 16 SEER, Add	485.37	
			For 18 SEER, Add	1,053.60	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Cooling Equipment****23 60****Refrigerant Condensers****23 63****23**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0018	EA		2 Ton, 13 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For >10 To 25, Deduct For >25 To 50, Deduct For >50, Deduct For 14 SEER, Add For 16 SEER, Add For 18 SEER, Add	1,834.80 -37.78 -62.96 -100.74 264.44 516.29 1,120.72	383.89
23 63 13 00-0019	EA		2.5 Ton, 13 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For >10 To 25, Deduct For >25 To 50, Deduct For >50, Deduct For 14 SEER, Add For 16 SEER, Add For 18 SEER, Add	1,952.44 -39.58 -65.97 -105.55 277.06 540.93 1,174.20	422.28
23 63 13 00-0020	EA		3 Ton, 13 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For >10 To 25, Deduct For >25 To 50, Deduct For >50, Deduct For 14 SEER, Add For 16 SEER, Add For 18 SEER, Add	2,233.72 -46.29 -77.15 -123.44 324.04 632.65 1,373.31	460.44
23 63 13 00-0021	EA		3.5 Ton, 13 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For >10 To 25, Deduct For >25 To 50, Deduct For >50, Deduct For 14 SEER, Add For 16 SEER, Add For 18 SEER, Add	2,369.27 -48.63 -81.05 -129.68 340.42 664.63 1,442.73	499.07
23 63 13 00-0022	EA		4 Ton, 13 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For >10 To 25, Deduct For >25 To 50, Deduct For >50, Deduct For 14 SEER, Add For 16 SEER, Add For 18 SEER, Add	2,633.91 -54.84 -91.41 -146.25 383.91 749.54 1,627.04	537.46
23 63 13 00-0023	EA		5 Ton, 13 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For >10 To 25, Deduct For >25 To 50, Deduct For >50, Deduct For 14 SEER, Add For 15 SEER, Add For 16 SEER, Add For 18 SEER, Add	2,961.80 -62.95 -104.92 -167.88 440.68 503.63 860.37 1,867.64	575.56
23 63 13 00-0024			Removal And Reinstallation Of AC Condensing Unit (23 63 13) Note: Includes storage and cleaning.		
23 63 13 00-0025	EA		Removal And Reinstallation Of Up To 5 Tons Air Cooled Condensing Unit	353.26	
23 63 13 00-0026	EA		Removal And Reinstallation Of 7.5 To 15 Tons Air Cooled Condensing Unit.....	1,324.76	
23 63 13 00-0027	EA		Removal And Reinstallation Of 20 To 40 Tons Air Cooled Condensing Unit.....	2,155.52	
23 64			Packaged Water Chillers (23 60)		
23 64 13			Absorption Water Chillers (23 64)		
23 64 13 16			Indirect-Fired Absorption Water Chillers (23 64 13)		
23 64 13 16-0001			Packaged, Steam Driven, Water Cooled Absorption Chillers (23 64 13 16) Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 V motor, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.		
23 64 13 16-0002	EA		50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	92,277.07	6,128.24
			For Two Stage Unit, Add	60,690.56	
23 64 13 16-0003	EA		100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	117,098.97	7,301.15
			For Two Stage Unit, Add	77,278.05	
23 64 13 16-0004	EA		150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	147,962.37	7,495.81
			For Two Stage Unit, Add	98,757.33	
23 64 13 16-0005	EA		200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	163,778.74	7,638.39
			For Two Stage Unit, Add	109,737.18	
23 64 13 16-0006	EA		250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	182,998.98	7,829.84
			For Two Stage Unit, Add	123,068.30	
23 64 13 16-0007	EA		300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	206,602.43	8,291.81
			For Two Stage Unit, Add	139,293.91	
23 64 13 16-0008	EA		350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	221,472.53	8,492.19
			For Two Stage Unit, Add	149,574.21	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 13 16-0009 EA 400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	263,596.42 178,837.86	8,839.37
23 64 13 16-0010 EA 500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	295,184.66 200,784.20	9,096.84
23 64 13 16-0011 EA 650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	363,539.19 246,230.30	12,835.31
23 64 13 16-0012 EA 750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	396,035.29 267,617.67	14,951.78
23 64 13 16-0013 EA 850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	424,120.79 286,850.54	15,616.24
23 64 13 16-0014 EA 950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	453,272.31 307,234.54	15,819.32
23 64 13 16-0015 EA 1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	518,571.15 352,595.25	16,367.55
23 64 13 16-0016 EA 1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	567,168.58 386,294.94	16,868.58
23 64 13 16-0017 EA 1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	666,930.84 453,633.22	20,793.95
23 64 13 16-0018 EA 1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller <i>For Two Stage Unit, Add</i>	779,039.95 531,409.28	21,895.67

23 64 16 Centrifugal Water Chillers (23 64)**23 64 16 16 Water-Cooled Centrifugal Water Chillers (23 64 16)****23 64 16 16-0001 Packaged Water-Cooled Centrifugal Water Chillers (23 64 16 16)**

Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 V motor, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

23 64 16 16-0002 EA 180 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	118,374.66 4,367.14	5,724.91
23 64 16 16-0003 EA 200 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	129,313.12 4,795.24	5,869.90
23 64 16 16-0004 EA 225 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	142,526.75 5,314.32	6,019.11
23 64 16 16-0005 EA 250 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	155,445.13 5,815.55	6,260.42
23 64 16 16-0006 EA 275 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	168,097.61 6,298.93	6,613.92
23 64 16 16-0007 EA 300 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	180,288.30 6,764.47	6,957.79
23 64 16 16-0008 EA 325 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	192,092.07 7,212.11	7,339.28
23 64 16 16-0009 EA 350 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	203,419.58 7,641.96	7,701.21
23 64 16 16-0010 EA 375 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	214,248.40 8,053.90	8,031.22
23 64 16 16-0011 EA 400 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	224,519.49 8,448.00	8,291.81
23 64 16 16-0012 EA 425 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	234,585.60 8,824.25	8,702.61
23 64 16 16-0013 EA 450 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	244,085.16 9,182.66	9,038.34
23 64 16 16-0014 EA 475 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	253,131.50 9,523.22	9,369.77
23 64 16 16-0015 EA 500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	261,611.70 9,845.93	9,626.43
23 64 16 16-0016 EA 550 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	276,955.92 10,437.77	9,967.79
23 64 16 16-0017 EA 600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	290,315.25 10,958.22	10,184.53
23 64 16 16-0018 EA 650 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	302,349.18 11,407.23	10,687.94



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central Cooling Equipment			23 60
Packaged Water Chillers			23 64

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0019 EA 700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	312,610.63 11,784.85	11,198.96
23 64 16 16-0020 EA 750 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	321,172.50 12,091.20	11,761.17
23 64 16 16-0021 EA 800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	341,106.50 12,852.10	12,328.59
23 64 16 16-0022 EA 850 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	360,900.18 13,607.51	12,894.21
23 64 16 16-0023 EA 900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	380,641.28 14,357.32	13,514.11
23 64 16 16-0024 EA 950 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	400,341.74 15,101.49	14,196.63
23 64 16 16-0025 EA 1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	419,352.45 15,840.00	14,694.40
23 64 16 16-0026 EA 1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	455,188.78 17,129.75	16,955.14
23 64 16 16-0027 EA 1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	489,699.71 18,366.06	19,222.32
23 64 16 16-0028 EA 1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	522,187.65 19,548.83	21,058.85
23 64 16 16-0029 EA 1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	552,215.37 20,678.06	22,189.61
23 64 16 16-0030 EA 1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	580,842.12 21,753.60	23,283.40
23 64 16 16-0031 EA 1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	607,477.77 22,776.12	23,958.33
23 64 16 16-0032 EA 1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	634,354.83 23,744.95	25,629.79
23 64 16 16-0033 EA 1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	659,223.90 24,660.24	26,880.02
23 64 16 16-0034 EA 1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	683,345.43 25,521.99	28,502.11
23 64 16 16-0035 EA 2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	705,171.01 26,330.30	29,520.06
23 64 16 16-0036 EA 2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	750,691.46 28,117.00	31,191.03
23 64 16 16-0037 EA 2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. For 208/230 Volt Motor, Add	791,776.02 29,569.32	33,062.45

23 64 19 Reciprocating Water Chillers (23 64)**23 64 19 00-0001 Packaged Water Cooled Reciprocating Water Chillers** (23 64 19)

Note: With reciprocation compressor integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type and include hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

23 64 19 00-0002 EA 15 Ton Packaged Water Cooled Reciprocating Water Chiller	17,949.52	1,647.95
23 64 19 00-0003 EA 20 Ton Packaged Water Cooled Reciprocating Water Chiller	21,115.55	1,944.12
23 64 19 00-0004 EA 25 Ton Packaged Water Cooled Reciprocating Water Chiller	23,587.21	2,002.86
23 64 19 00-0005 EA 30 Ton Packaged Water Cooled Reciprocating Water Chiller	26,249.74	2,198.73
23 64 19 00-0006 EA 40 Ton Packaged Water Cooled Reciprocating Water Chiller	31,697.94	2,673.28
23 64 19 00-0007 EA 50 Ton Packaged Water Cooled Reciprocating Water Chiller	35,892.26	2,929.65
23 64 19 00-0008 EA 60 Ton Packaged Water Cooled Reciprocating Water Chiller	37,252.86	3,236.89

23 64 23 Scroll Water Chillers (23 64)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 64 23 00-0001	Packaged Air Cooled Scroll Water Chillers (23 64 23)	
	Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type and include scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel.	
23 64 23 00-0002	EA 10 Ton Packaged Air Cooled Scroll Water Chiller.....	15,730.47 1,616.95
23 64 23 00-0003	EA 15 Ton Packaged Air Cooled Scroll Water Chiller.....	22,699.12 1,637.69
23 64 23 00-0004	EA 18 Ton Packaged Air Cooled Scroll Water Chiller.....	24,750.70 1,751.70
23 64 23 00-0005	EA 22 Ton Packaged Air Cooled Scroll Water Chiller.....	27,193.09 1,876.09
23 64 23 00-0006	EA 25 Ton Packaged Air Cooled Scroll Water Chiller.....	27,699.14 2,000.46
23 64 23 00-0007	EA 30 Ton Packaged Air Cooled Scroll Water Chiller.....	29,255.66 2,145.58
23 64 23 00-0008	EA 40 Ton Packaged Air Cooled Scroll Water Chiller.....	33,360.65 2,321.78
23 64 23 00-0009	EA 45 Ton Packaged Air Cooled Scroll Water Chiller.....	35,837.73 2,518.72
23 64 23 00-0010	EA 50 Ton Packaged Air Cooled Scroll Water Chiller.....	37,800.97 2,591.28
23 64 23 00-0011	EA 55 Ton Packaged Air Cooled Scroll Water Chiller.....	39,478.39 2,705.29
23 64 23 00-0012	EA 60 Ton Packaged Air Cooled Scroll Water Chiller.....	40,806.10 2,798.58
23 64 23 00-0013	EA 70 Ton Packaged Air Cooled Scroll Water Chiller.....	47,023.85 3,150.99
23 64 23 00-0014	EA 80 Ton Packaged Air Cooled Scroll Water Chiller.....	50,662.53 3,451.58
23 64 23 00-0015	EA 90 Ton Packaged Air Cooled Scroll Water Chiller.....	51,545.06 3,461.94
23 64 23 00-0016	EA 100 Ton Packaged Air Cooled Scroll Water Chiller.....	54,403.87 3,472.31
23 64 23 00-0017	EA 110 Ton Packaged Air Cooled Scroll Water Chiller.....	57,182.88 3,482.68
23 64 23 00-0018	EA 120 Ton Packaged Air Cooled Scroll Water Chiller.....	59,996.39 3,493.04
23 64 23 00-0019	EA 130 Ton Packaged Air Cooled Scroll Water Chiller.....	62,958.63 3,503.40

23 64 23 00-0020	Packaged Water Cooled Scroll Water Chillers (23 64 23)	
	Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type and include hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.	
23 64 23 00-0021	EA 20 Ton Packaged Water Cooled Scroll Water Chiller	33,982.28 1,944.12
23 64 23 00-0022	EA 25 Ton Packaged Water Cooled Scroll Water Chiller	39,140.38 2,002.86
23 64 23 00-0023	EA 30 Ton Packaged Water Cooled Scroll Water Chiller	43,425.46 2,198.73
23 64 23 00-0024	EA 40 Ton Packaged Water Cooled Scroll Water Chiller	53,198.18 2,673.28
23 64 23 00-0025	EA 50 Ton Packaged Water Cooled Scroll Water Chiller	58,857.51 2,929.65
23 64 23 00-0026	EA 60 Ton Packaged Water Cooled Scroll Water Chiller	61,809.98 3,236.89

23 64 26 Rotary-Screw Water Chillers (23 64)

23 64 26 00-0001	Packaged Air Cooled Rotary-Screw Water Chillers (23 64 26)	
	Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 V motor, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel.	
23 64 26 00-0002	EA 70 Ton Packaged Air Cooled Rotary-Screw Water Chiller	89,876.27 3,969.83
	For Aluminum Fins Instead Of Copper, Deduct	-1,258.90
	For 208/230 Volt Motor, Add	3,357.07
23 64 26 00-0003	EA 80 Ton Packaged Air Cooled Rotary-Screw Water Chiller	96,598.61 4,311.89
	For Aluminum Fins Instead Of Copper, Deduct	-1,352.12
	For 208/230 Volt Motor, Add	3,605.65
23 64 26 00-0004	EA 90 Ton Packaged Air Cooled Rotary-Screw Water Chiller	101,610.67 4,498.45
	For Aluminum Fins Instead Of Copper, Deduct	-1,422.94
	For 208/230 Volt Motor, Add	3,794.52
23 64 26 00-0005	EA 100 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	105,385.26 4,840.51
	For Aluminum Fins Instead Of Copper, Deduct	-1,471.95
	For 208/230 Volt Motor, Add	3,925.19
23 64 26 00-0006	EA 110 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	113,088.35 5,078.90
	For Aluminum Fins Instead Of Copper, Deduct	-1,582.21
	For 208/230 Volt Motor, Add	4,219.21
23 64 26 00-0007	EA 120 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	120,152.97 5,182.55
	For Aluminum Fins Instead Of Copper, Deduct	-1,685.69
	For 208/230 Volt Motor, Add	4,495.17
23 64 26 00-0008	EA 130 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	126,821.51 5,358.76
	For Aluminum Fins Instead Of Copper, Deduct	-1,781.83
	For 208/230 Volt Motor, Add	4,751.54
23 64 26 00-0009	EA 140 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	130,871.26 5,472.78
	For Aluminum Fins Instead Of Copper, Deduct	-1,839.93
	For 208/230 Volt Motor, Add	4,906.48
23 64 26 00-0010	EA 160 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	138,171.56 5,586.80
	For Aluminum Fins Instead Of Copper, Deduct	-1,946.79
	For 208/230 Volt Motor, Add	5,191.45
23 64 26 00-0011	EA 170 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	144,218.40 5,763.00
	For Aluminum Fins Instead Of Copper, Deduct	-2,033.61
	For 208/230 Volt Motor, Add	5,422.96
23 64 26 00-0012	EA 180 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	152,068.66 5,991.03
	For Aluminum Fins Instead Of Copper, Deduct	-2,146.23
	For 208/230 Volt Motor, Add	5,723.28

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central Cooling Equipment

23 60

Packaged Water Chillers

23 64**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 26 00-0013 EA 200 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	158,939.64 -2,246.65 5,991.08	6,115.42
23 64 26 00-0014 EA 215 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	170,338.75 -2,415.15 6,440.41	6,219.06
23 64 26 00-0015 EA 225 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	177,910.51 -2,527.48 6,739.96	6,281.25
23 64 26 00-0016 EA 240 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	185,482.26 -2,639.82 7,039.51	6,333.08
23 64 26 00-0017 EA 260 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	208,135.38 -2,976.82 7,938.17	6,457.46
23 64 26 00-0018 EA 280 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	219,544.85 -3,145.31 8,387.51	6,581.85
23 64 26 00-0019 EA 300 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	234,688.38 -3,369.98 8,986.61	6,685.50
23 64 26 00-0020 EA 325 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	257,320.75 -3,706.98 9,885.27	6,799.51
23 64 26 00-0021 EA 350 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add	280,466.68 -4,052.15 10,805.72	6,882.43
23 64 26 00-0022 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26) Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.		
23 64 26 00-0023 EA 70 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	66,369.26	4,515.31
23 64 26 00-0024 EA 80 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	72,067.52	4,690.91
23 64 26 00-0025 EA 90 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	77,015.08	4,816.33
23 64 26 00-0026 EA 100 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	81,310.87	5,019.52
23 64 26 00-0027 EA 110 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	85,586.51	5,157.49
23 64 26 00-0028 EA 125 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	90,796.20	5,302.28
23 64 26 00-0029 EA 130 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	93,129.04	5,450.48
23 64 26 00-0030 EA 150 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	100,869.13	5,597.98
23 64 26 00-0031 EA 175 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	108,393.34	5,736.55
23 64 26 00-0032 EA 190 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	112,102.29	6,023.42
23 64 26 00-0033 EA 200 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	114,260.69	6,313.91
23 64 26 00-0034 EA 210 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	115,817.40	6,449.06
23 64 26 00-0035 EA 235 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	125,808.77	6,590.14
23 64 26 00-0036 EA 255 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	133,647.26	6,891.76
23 64 26 00-0037 EA 275 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	141,062.15	7,170.71
23 64 26 00-0038 EA 300 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	149,687.15	7,454.77
23 64 26 00-0039 EA 350 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	164,325.78	8,115.51
23 64 26 00-0040 EA 400 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	176,341.58	8,926.27
23 64 26 00-0041 EA 450 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	185,748.81	9,819.29
23 65 Cooling Towers (23 60)		
23 65 00 00-0001 Induced Draft Axial Single Flow Propeller Type Cooling Towers (23 65) Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.		
23 65 00 00-0002 EA 10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	6,246.80	1,160.90
23 65 00 00-0003 EA 20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	7,334.92	1,254.18
23 65 00 00-0004 EA 30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	8,715.51	1,409.66
23 65 00 00-0005 EA 40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	9,666.63	1,554.77
23 65 00 00-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	11,382.28	1,720.61
23 65 00 00-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	13,155.67	1,855.35
23 65 00 00-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	15,085.35	2,104.12
23 65 00 00-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	18,918.64	2,643.10
23 65 00 00-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	20,673.51	2,954.06
23 65 00 00-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	30,831.62	3,327.20
23 65 00 00-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	37,387.63	4,156.41
23 65 00 00-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower.....	49,279.00	6,820.24
23 65 00 00-0014 Induced Draft Double Flow Propeller Type Packaged Cooling Towers (23 65) Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.		
23 65 00 00-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower.....	18,918.64	2,643.10
23 65 00 00-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower.....	25,081.63	3,327.20

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 00 00-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	31,821.91	4,156.41
23 65 00 00-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	37,932.07	5,203.28
23 65 00 00-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	45,478.24	6,820.24
23 65 00 00-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	50,738.58	7,680.54
23 65 00 00-0021 EA 400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	56,495.91	8,426.83
23 65 00 00-0022 EA 450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	63,894.82	9,338.96
23 65 00 00-0023 EA 500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	71,805.68	10,126.71
23 65 00 00-0024 EA 550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	76,720.44	10,676.06
23 65 00 00-0025 EA 600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	82,011.39	10,966.29
23 65 00 00-0026 EA 700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	92,179.06	11,339.43
23 65 00 00-0027 EA 800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	101,138.22	12,500.32
23 65 00 00-0028 EA 900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower	111,710.17	13,764.86

23 65 00 00-0029**Induced Draft Crossflow Film Filled Propeller Type Cooling Towers (23 65)**

Note: Galvanized Steel. Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.

23 65 00 00-0030 EA 10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	5,411.09	1,160.90
For Polymer Coating Over Galvanized Components, Add	550.46	
23 65 00 00-0031 EA 15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	5,794.06	1,181.62
For Polymer Coating Over Galvanized Components, Add	604.80	
23 65 00 00-0032 EA 20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	6,306.41	1,285.27
For Polymer Coating Over Galvanized Components, Add	656.78	
23 65 00 00-0033 EA 25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	7,281.70	1,347.47
For Polymer Coating Over Galvanized Components, Add	789.08	
23 65 00 00-0034 EA 30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	8,178.23	1,409.66
For Polymer Coating Over Galvanized Components, Add	909.56	
23 65 00 00-0035 EA 35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	9,064.00	1,482.21
For Polymer Coating Over Galvanized Components, Add	1,025.33	
23 65 00 00-0036 EA 40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	9,876.40	1,554.77
For Polymer Coating Over Galvanized Components, Add	1,131.64	
23 65 00 00-0037 EA 45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	10,777.92	1,637.69
For Polymer Coating Over Galvanized Components, Add	1,249.76	
23 65 00 00-0038 EA 50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	11,668.66	1,720.61
For Polymer Coating Over Galvanized Components, Add	1,363.16	
23 65 00 00-0039 EA 60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	13,393.35	1,855.35
For Polymer Coating Over Galvanized Components, Add	1,592.33	
23 65 00 00-0040 EA 70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	15,264.77	2,000.46
For Polymer Coating Over Galvanized Components, Add	1,840.39	
23 65 00 00-0041 EA 75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	16,150.13	2,104.12
For Polymer Coating Over Galvanized Components, Add	1,951.43	
23 65 00 00-0042 EA 80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	17,159.87	2,280.32
For Polymer Coating Over Galvanized Components, Add	2,062.46	
23 65 00 00-0043 EA 90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	17,933.36	2,456.53
For Polymer Coating Over Galvanized Components, Add	2,138.06	
23 65 00 00-0044 EA 100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	19,401.19	2,643.10
For Polymer Coating Over Galvanized Components, Add	2,272.73	
23 65 00 00-0045 EA 125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	20,323.97	2,954.06
For Polymer Coating Over Galvanized Components, Add	2,336.51	
23 65 00 00-0046 EA 150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	23,539.65	3,327.20
For Polymer Coating Over Galvanized Components, Add	2,728.69	
23 65 00 00-0047 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	26,040.78	3,731.44
For Polymer Coating Over Galvanized Components, Add	3,007.46	
23 65 00 00-0048 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	27,559.63	4,156.41
For Polymer Coating Over Galvanized Components, Add	3,132.68	
23 65 00 00-0049 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	31,780.07	4,685.02
For Polymer Coating Over Galvanized Components, Add	3,638.25	
23 65 00 00-0050 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	34,887.65	5,203.28
For Polymer Coating Over Galvanized Components, Add	3,978.45	
23 65 00 00-0051 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	37,687.06	6,156.88
For Polymer Coating Over Galvanized Components, Add	4,169.81	
23 65 00 00-0052 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	40,781.04	6,820.24
For Polymer Coating Over Galvanized Components, Add	4,472.21	
23 65 00 00-0053 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	46,538.09	7,680.54
For Polymer Coating Over Galvanized Components, Add	5,128.99	
23 65 00 00-0054 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	51,273.83	8,426.83
For Polymer Coating Over Galvanized Components, Add	5,660.55	
23 65 00 00-0055 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	56,688.56	9,338.96
For Polymer Coating Over Galvanized Components, Add	6,253.54	
23 65 00 00-0056 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	61,743.47	10,126.71
For Polymer Coating Over Galvanized Components, Add	6,820.54	
23 65 00 00-0057 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	70,178.43	10,966.29
For Polymer Coating Over Galvanized Components, Add	7,883.66	
23 65 00 00-0058 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	77,920.02	11,339.43
For Polymer Coating Over Galvanized Components, Add	9,020.03	
23 65 00 00-0059 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	86,989.28	12,500.32
For Polymer Coating Over Galvanized Components, Add	10,106.78	
23 65 00 00-0060 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	95,877.89	13,764.86
For Polymer Coating Over Galvanized Components, Add	11,141.55	
23 65 00 00-0061 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	104,715.59	15,215.98
For Polymer Coating Over Galvanized Components, Add	12,126.71	
23 65 00 00-0062 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	114,166.36	15,951.91
For Polymer Coating Over Galvanized Components, Add	13,371.75	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23****Central Cooling Equipment****23 60****Cooling Towers****23 65****23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 00 00-0063 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	123,271.47 14,574.26	16,636.01
23 65 00 00-0064 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	131,353.56 15,450.75	18,066.38
23 65 00 00-0065 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	139,270.78 16,277.63	19,600.42
23 65 00 00-0066 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	146,991.99 17,054.89	21,217.36
23 65 00 00-0067 EA 1,600 Ton Induced Draft Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	154,091.81 17,777.81	22,678.85
23 65 00 00-0068 EA 1,700 Ton Induced Draft Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	161,187.18 18,448.76	24,347.63
23 65 00 00-0069 EA 1,800 Ton Induced Draft Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	168,366.37 19,070.10	26,275.55
23 65 00 00-0070 EA 1,900 Ton Induced Draft Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	175,173.02 19,637.10	28,203.45
23 65 00 00-0071 EA 2,000 Ton Induced Draft Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i>	182,747.59 20,154.49	30,836.20
23 65 00 00-0072 Draw-Thru Fiberglass Packaged Propeller Type Cooling Towers (23 65) Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.		
23 65 00 00-0073 EA 5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	2,366.45	642.64
23 65 00 00-0074 EA 8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	2,690.22	798.11
23 65 00 00-0075 EA 10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	3,213.19	901.76
23 65 00 00-0076 EA 15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	3,690.08	984.69
23 65 00 00-0077 EA 20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	4,699.45	1,067.61
23 65 00 00-0078 EA 25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	5,042.44	1,171.26
23 65 00 00-0079 EA 30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	5,725.77	1,523.67
23 65 00 00-0080 EA 40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	6,518.75	1,388.92
23 65 00 00-0081 EA 50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	7,365.07	1,596.23
23 65 00 00-0082 EA 60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	8,315.29	1,782.80
23 65 00 00-0083 EA 70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	9,570.15	1,969.37
23 65 00 00-0084 EA 80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	11,160.98	2,497.99
23 65 00 00-0085 EA 100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	13,104.59	2,819.31
23 65 00 00-0086 EA 125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	15,899.63	3,130.26
23 65 00 00-0087 EA 150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	17,468.40	3,285.74
23 65 00 00-0088 EA 175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	20,579.30	3,430.85
23 65 00 00-0089 EA 200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	22,570.92	3,586.33
23 65 00 00-0090 EA 225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	24,499.68	3,741.80
23 65 00 00-0091 EA 250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	26,576.85	4,042.39
23 65 00 00-0092 EA 300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	30,786.36	4,508.82
23 65 00 00-0093 EA 350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	34,815.88	4,985.62
23 65 00 00-0094 EA 400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	39,404.18	5,908.11
23 65 00 00-0095 EA 500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	47,463.22	6,861.71
23 65 00 00-0096 EA 600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	54,096.08	7,442.15
23 65 00 00-0097 EA 700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	60,910.54	8,426.83
23 65 00 00-0098 EA 800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	67,189.63	9,421.88
23 65 00 00-0099 EA 1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	79,186.58	10,416.93
23 65 00 00-0100 Stainless Steel Packaged Propeller Type Cooling Towers (23 65) Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.		
23 65 00 00-0101 Draw-Thru Stainless Steel Propeller Type Cooling Towers (23 65 00 00-0100) Note: Excludes crane and associated personnel.		
23 65 00 00-0102 EA 50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	14,194.69	1,720.61
23 65 00 00-0103 EA 75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	19,844.53	2,104.12
23 65 00 00-0104 EA 100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	23,731.64	2,643.10
23 65 00 00-0105 EA 125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	26,858.82	2,954.06
23 65 00 00-0106 EA 150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	29,552.44	3,327.20
23 65 00 00-0107 EA 200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	35,601.26	4,156.41
23 65 00 00-0108 EA 250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	42,217.66	5,203.28
23 65 00 00-0109 EA 300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	50,704.84	6,820.24
23 65 00 00-0110 EA 350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	55,722.16	7,680.54
23 65 00 00-0111 EA 400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	62,887.25	8,426.83
23 65 00 00-0112 EA 500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	73,263.27	10,126.71
23 65 00 00-0113 EA 600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	82,237.01	10,966.29
23 65 00 00-0114 EA 750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	100,398.07	11,919.87
23 65 00 00-0115 EA 1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	127,120.14	15,050.14
23 65 00 00-0116 Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers (23 65 00 00-0100) Note: Excludes crane and associated personnel.		
23 65 00 00-0117 EA 100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	32,594.09 1,417.22	2,643.10
23 65 00 00-0118 EA 125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower <i>For Induced Draft Counter Flow Type, Add</i>	36,899.56 1,607.62	2,933.32

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 00 00-0119 EA 150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	40,427.19 1,753.94	3,327.20
23 65 00 00-0120 EA 200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	45,397.14 1,936.10	4,156.41
23 65 00 00-0121 EA 250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	51,923.02 2,177.92	5,203.28
23 65 00 00-0122 EA 300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	60,465.11 2,474.94	6,820.24
23 65 00 00-0123 EA 350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	66,123.52 2,688.93	7,680.54
23 65 00 00-0124 EA 400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	71,595.36 2,902.93	8,426.83
23 65 00 00-0125 EA 500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	83,041.35 3,338.41	10,126.71
23 65 00 00-0126 EA 600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	93,322.36 3,785.08	10,966.29
23 65 00 00-0127 EA 750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	114,244.18 4,727.52	11,919.87
23 65 00 00-0128 EA 1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	147,230.87 6,168.00	15,215.98
23 65 00 00-0129 Belt Driven Stainless Steel Propeller Type Cooling Towers (23 65 00 00-0100)		
Note: Excludes crane and associated personnel.		
23 65 00 00-0130 EA 100 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	24,608.69	2,643.10
23 65 00 00-0131 EA 125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	26,722.29	2,954.06
23 65 00 00-0132 EA 150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	28,941.03	3,327.20
23 65 00 00-0133 EA 200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	34,445.22	4,156.41
23 65 00 00-0134 EA 250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	38,598.18	5,203.28
23 65 00 00-0135 Blow-Thru Centrifugal Fan Type Cooling Towers (23 65)		
Note: Including 2-speed motor internal piping, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.		
23 65 00 00-0136 EA 50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	11,906.17 5,595.16	1,720.61
23 65 00 00-0137 EA 75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	16,237.91 7,858.37	2,104.12
23 65 00 00-0138 EA 100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	20,490.32 9,744.38	2,643.10
23 65 00 00-0139 EA 125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	23,567.39 11,292.10	2,954.06
23 65 00 00-0140 EA 150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	26,902.78 12,932.63	3,327.20
23 65 00 00-0141 EA 175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	30,239.71 14,549.21	3,731.44
23 65 00 00-0142 EA 200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	33,917.47 16,345.40	4,156.41
23 65 00 00-0143 EA 225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	37,162.34 17,782.36	4,685.02
23 65 00 00-0144 EA 250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	40,556.51 19,315.12	5,203.28
23 65 00 00-0145 EA 275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	44,714.60 20,895.77	6,156.88
23 65 00 00-0146 EA 300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	48,686.45 22,632.10	6,820.24
23 65 00 00-0147 EA 325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	51,324.86 23,829.56	7,255.58
23 65 00 00-0148 EA 350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	54,405.82 25,236.59	7,680.54
23 65 00 00-0149 EA 375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	57,352.03 26,643.61	8,053.69
23 65 00 00-0150 EA 400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	60,687.03 28,290.12	8,426.83
23 65 00 00-0151 EA 425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	64,266.93 29,996.51	8,882.89
23 65 00 00-0152 EA 450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	68,285.52 31,972.33	9,338.96
23 65 00 00-0153 EA 475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	72,160.94 33,918.21	9,732.84
23 65 00 00-0154 EA 500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	76,046.71 35,864.09	10,126.71
23 65 00 00-0155 EA 550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	83,206.71 39,755.86	10,551.68
23 65 00 00-0156 EA 600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	90,965.44 44,006.86	10,966.29
23 65 00 00-0157 EA 650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	94,042.04 45,803.06	11,194.32
23 65 00 00-0158 EA 700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	97,717.34 47,958.49	11,339.43
23 65 00 00-0159 EA 750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	102,321.67 50,173.81	11,919.87

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central Cooling Equipment

23 60

Cooling Towers

23 65**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 00 00-0160 EA 800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... For Stainless Steel Cooling Tower, Add	107,624.49 52,808.23	12,500.32
23 65 00 00-0161 EA 850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... For Stainless Steel Cooling Tower, Add	113,010.26 55,442.65	13,132.59
23 65 00 00-0162 EA 900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... For Stainless Steel Cooling Tower, Add	119,194.33 58,556.06	13,764.86
23 65 00 00-0163 EA 950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... For Stainless Steel Cooling Tower, Add	125,623.29 61,729.34	14,490.43
23 65 00 00-0164 EA 1,000 Ton Centrifugal Type Cooling Tower For Stainless Steel Cooling Tower, Add	132,840.20 65,381.62	15,215.98
23 65 00 00-0165 Fiberglass Cooling Tower Sump Basins ^(23 65) Note: Includes 1 inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel.		
23 65 00 00-0166 EA 30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,002.08 115.00 80.00	
23 65 00 00-0167 EA 30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,137.75 115.00 80.00	
23 65 00 00-0168 EA 36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,100.48 253.00 80.00	
23 65 00 00-0169 EA 36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,299.62 253.00 80.00	
23 65 00 00-0170 EA 42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,420.74 276.00 100.00	
23 65 00 00-0171 EA 42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,572.41 276.00 100.00	
23 65 00 00-0172 EA 42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,724.09 276.00 100.00	
23 65 00 00-0173 EA 48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,714.47 294.00 140.00	
23 65 00 00-0174 EA 48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	1,885.08 294.00 140.00	
23 65 00 00-0175 EA 48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	2,160.78 294.00 140.00	
23 65 00 00-0176 EA 48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	2,437.94 294.00 140.00	
23 65 00 00-0177 EA 48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin For Anti-Flotation Flanges, Add For Perforated Basins, Add	2,605.63 294.00 140.00	
23 70 Central HVAC Equipment ⁽²³⁾ Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 00-0001 for disconnect.		
23 71 Thermal Storage ^(23 70)		
23 71 13 Thermal Heat Storage ^(23 71)		
23 71 13 23 Pressurized-Water Thermal Storage Tanks ^(23 71 13)		
23 71 13 23-0001 Nickelshield Storage Tanks ^(23 71 13 23)		
23 71 13 23-0002 EA 325 Gallon Nickelshield Storage Tank.....	15,505.05	187.83
23 71 13 23-0003 EA 490 Gallon Nickelshield Storage Tank.....	21,628.77	249.04
23 71 13 23-0004 EA 605 Gallon Nickelshield Storage Tank.....	24,772.14	301.21
23 71 13 23-0005 EA 740 Gallon Nickelshield Storage Tank.....	29,343.44	376.52
23 71 13 23-0006 EA 940 Gallon Nickelshield Storage Tank.....	34,179.47	500.51
23 71 13 23-0007 EA 1,505 Gallon Nickelshield Storage Tank.....	44,230.02	753.11
23 71 13 23-0008 EA 1,615 Gallon Nickelshield Storage Tank.....	49,945.71	848.26
23 71 13 23-0009 EA 2,275 Gallon Nickelshield Storage Tank.....	68,564.30	1,126.72
23 71 13 23-0010 EA 3,815 Gallon Nickelshield Storage Tank.....	88,621.26	1,309.85
23 72 Air-To-Air Energy Recovery Equipment ^(23 70)		
23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment ^(23 72)		
23 72 13 00-0001 Enthalpy Recovery Wheel ^(23 72 13)		
23 72 13 00-0002 EA Up To 1,000 CFM Enthalpy Recovery Wheel.....	5,959.57	742.92
23 72 13 00-0003 EA >1,000 To 2,000 CFM Enthalpy Recovery Wheel.....	6,678.79	891.73
23 72 13 00-0004 EA >2,000 To 4,000 CFM Enthalpy Recovery Wheel.....	8,355.89	1,114.66

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 72 Air-To-Air Energy Recovery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 72 13 00-0005 EA >4,000 To 6,000 CFM Enthalpy Recovery Wheel.....	9,743.50	1,273.49
23 72 13 00-0006 EA >6,000 To 8,000 CFM Enthalpy Recovery Wheel.....	10,713.42	1,337.59
23 72 13 00-0007 EA >8,000 To 10,000 CFM Enthalpy Recovery Wheel.....	12,890.05	1,486.39
23 72 13 00-0008 EA >10,000 To 15,000 CFM Enthalpy Recovery Wheel.....	16,735.16	1,560.52
23 72 13 00-0009 EA >15,000 To 20,000 CFM Enthalpy Recovery Wheel.....	20,590.49	1,671.98
23 72 13 00-0010 EA >20,000 To 25,000 CFM Enthalpy Recovery Wheel.....	24,827.95	1,910.52
23 72 13 00-0011 EA >25,000 To 30,000 CFM Enthalpy Recovery Wheel.....	28,115.73	2,452.25
23 72 13 00-0012 EA >30,000 To 40,000 CFM Enthalpy Recovery Wheel.....	37,211.04	2,786.64
23 72 13 00-0013 EA >40,000 To 50,000 CFM Enthalpy Recovery Wheel.....	44,284.85	3,343.96

23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment (23 72)**23 72 16 00-0001 Glycol Heat Pipe Type, 50 Percent Efficient (23 72 16)**

23 72 16 00-0002 EA 100 MBH, 1,700 CFM Glycol Heat Recovery Unit	10,010.34	557.32
23 72 16 00-0003 EA 160 MBH, 2,700 CFM Glycol Heat Recovery Unit	15,614.64	743.14
23 72 16 00-0004 EA 620 MBH, 4,000 CFM Glycol Heat Recovery Unit	23,160.33	1,114.66

23 73 Indoor Central-Station Air-Handling Units (23 70)**23 73 13 Modular Indoor Central-Station Air-Handling Units (23 73)**

Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.

23 73 13 00-0001 Single Zone Units (23 73 13)

Note: Horizontal/vertical draw-thru fan, motor and cabinet.

23 73 13 00-0002 EA 300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	1,826.07	553.76
For Flat Filter Box And Throwaway Filters, Add	143.05	
For Medium Capacity Filter Box And Throwaway Filters, Add	262.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	389.60	
For Manual Roll Filter, Add	648.35	
For Automatic Roll Filter, Add	700.10	
For Hot Water Heating Coil, Aluminum Fins, Add	337.85	
For Electric Heating Coil, Add	544.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	544.85	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	493.10	
For Steam Heating Coil, Aluminum Fins, Add	441.35	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	350.05	
For Chilled Water Cooling Coil, Copper Fins, Add	648.35	
For Direct Expansion Cooling Coil, Copper Fins, Add	596.60	
For Hot Water Heating Coil, Copper Fins, Add	441.35	
For Variable Air Volume, Add	144.90	
For Economizer, Panel, Controls And Damper(s), Add	1,193.76	
For 2 Coils, Independent Circuits, Add	203.31	
23 73 13 00-0003 EA 500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	2,779.67	664.51
For Flat Filter Box And Throwaway Filters, Add	230.54	
For Medium Capacity Filter Box And Throwaway Filters, Add	432.62	
For Combination Filter Mixing Box And Throwaway Filters, Add	644.19	
For Manual Roll Filter, Add	1,101.97	
For Automatic Roll Filter, Add	1,193.53	
For Hot Water Heating Coil, Aluminum Fins, Add	552.64	
For Electric Heating Coil, Add	918.86	
For Chilled Water Cooling Coil, Aluminum Fins, Add	918.86	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	827.30	
For Steam Heating Coil, Aluminum Fins, Add	735.75	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	596.76	
For Chilled Water Cooling Coil, Copper Fins, Add	1,101.97	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,010.42	
For Hot Water Heating Coil, Copper Fins, Add	735.75	
For Variable Air Volume, Add	256.36	
For Economizer, Panel, Controls And Damper(s), Add	1,303.99	
For 2 Coils, Independent Circuits, Add	314.59	
23 73 13 00-0004 EA 800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,123.83	713.66
For Flat Filter Box And Throwaway Filters, Add	261.41	
For Medium Capacity Filter Box And Throwaway Filters, Add	492.24	
For Combination Filter Mixing Box And Throwaway Filters, Add	733.26	
For Manual Roll Filter, Add	1,259.36	
For Automatic Roll Filter, Add	1,364.58	
For Hot Water Heating Coil, Aluminum Fins, Add	628.04	
For Electric Heating Coil, Add	1,048.92	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,048.92	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	943.70	
For Steam Heating Coil, Aluminum Fins, Add	838.48	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	682.29	
For Chilled Water Cooling Coil, Copper Fins, Add	1,259.36	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,154.14	
For Hot Water Heating Coil, Copper Fins, Add	838.48	
For Variable Air Volume, Add	294.61	
For Economizer, Panel, Controls And Damper(s), Add	1,353.61	
For 2 Coils, Independent Circuits, Add	354.47	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central HVAC Equipment			23 70
Indoor Central-Station Air-Handling Units			23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0005 EA 1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,505.63	766.86
For Flat Filter Box And Throwaway Filters, Add	295.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	558.69	
For Combination Filter Mixing Box And Throwaway Filters, Add	832.55	
For Manual Roll Filter, Add	1,435.03	
For Automatic Roll Filter, Add	1,555.53	
For Hot Water Heating Coil, Aluminum Fins, Add	712.05	
For Electric Heating Coil, Add	1,194.04	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,194.04	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,073.54	
For Steam Heating Coil, Aluminum Fins, Add	953.05	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	777.76	
For Chilled Water Cooling Coil, Copper Fins, Add	1,435.03	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,314.54	
For Hot Water Heating Coil, Copper Fins, Add	953.05	
For Variable Air Volume, Add	337.39	
For Economizer, Panel, Controls And Damper(s), Add	1,406.99	
For 2 Coils, Independent Circuits, Add	398.76	
23 73 13 00-0006 EA 1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,952.94	825.01
For Flat Filter Box And Throwaway Filters, Add	336.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	637.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	950.44	
For Manual Roll Filter, Add	1,644.37	
For Automatic Roll Filter, Add	1,783.15	
For Hot Water Heating Coil, Aluminum Fins, Add	811.65	
For Electric Heating Coil, Add	1,366.80	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,366.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,228.01	
For Steam Heating Coil, Aluminum Fins, Add	1,089.22	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	891.58	
For Chilled Water Cooling Coil, Copper Fins, Add	1,644.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,505.58	
For Hot Water Heating Coil, Copper Fins, Add	1,089.22	
For Variable Air Volume, Add	388.60	
For Economizer, Panel, Controls And Damper(s), Add	1,464.05	
For 2 Coils, Independent Circuits, Add	450.81	
23 73 13 00-0007 EA 1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,472.63	886.61
For Flat Filter Box And Throwaway Filters, Add	383.94	
For Medium Capacity Filter Box And Throwaway Filters, Add	729.87	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,088.48	
For Manual Roll Filter, Add	1,889.99	
For Automatic Roll Filter, Add	2,050.30	
For Hot Water Heating Coil, Aluminum Fins, Add	928.17	
For Electric Heating Coil, Add	1,569.39	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,569.39	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,409.08	
For Steam Heating Coil, Aluminum Fins, Add	1,248.78	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,025.15	
For Chilled Water Cooling Coil, Copper Fins, Add	1,889.99	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,729.69	
For Hot Water Heating Coil, Copper Fins, Add	1,248.78	
For Variable Air Volume, Add	448.85	
For Economizer, Panel, Controls And Damper(s), Add	1,526.59	
For 2 Coils, Independent Circuits, Add	511.38	
23 73 13 00-0008 EA 1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,887.63	953.17
For Flat Filter Box And Throwaway Filters, Add	420.82	
For Medium Capacity Filter Box And Throwaway Filters, Add	800.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,194.53	
For Manual Roll Filter, Add	2,076.74	
For Automatic Roll Filter, Add	2,253.18	
For Hot Water Heating Coil, Aluminum Fins, Add	1,018.09	
For Electric Heating Coil, Add	1,723.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,723.85	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,547.41	
For Steam Heating Coil, Aluminum Fins, Add	1,370.97	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,126.59	
For Chilled Water Cooling Coil, Copper Fins, Add	2,076.74	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,900.30	
For Hot Water Heating Coil, Copper Fins, Add	1,370.97	
For Variable Air Volume, Add	494.04	
For Economizer, Panel, Controls And Damper(s), Add	1,591.16	
For 2 Coils, Independent Circuits, Add	559.34	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0009 EA 1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,340.26	1,027.24
For Flat Filter Box And Throwaway Filters, Add	460.67	
For Medium Capacity Filter Box And Throwaway Filters, Add	877.32	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,308.65	
For Manual Roll Filter, Add	2,276.92	
For Automatic Roll Filter, Add	2,470.58	
For Hot Water Heating Coil, Aluminum Fins, Add	1,114.99	
For Electric Heating Coil, Add	1,889.61	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,889.61	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,695.96	
For Steam Heating Coil, Aluminum Fins, Add	1,502.30	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,235.29	
For Chilled Water Cooling Coil, Copper Fins, Add	2,276.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,083.27	
For Hot Water Heating Coil, Copper Fins, Add	1,502.30	
For Variable Air Volume, Add	542.23	
For Economizer, Panel, Controls And Damper(s), Add	1,556.94	
For 2 Coils, Independent Circuits, Add	611.49	
23 73 13 00-0010 EA 2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,833.79	1,101.30
For Flat Filter Box And Throwaway Filters, Add	504.71	
For Medium Capacity Filter Box And Throwaway Filters, Add	962.22	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,435.46	
For Manual Roll Filter, Add	2,500.56	
For Automatic Roll Filter, Add	2,713.58	
For Hot Water Heating Coil, Aluminum Fins, Add	1,222.44	
For Electric Heating Coil, Add	2,074.52	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,074.52	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,861.50	
For Steam Heating Coil, Aluminum Fins, Add	1,648.48	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,356.79	
For Chilled Water Cooling Coil, Copper Fins, Add	2,500.56	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,287.54	
For Hot Water Heating Coil, Copper Fins, Add	1,648.48	
For Variable Air Volume, Add	596.46	
For Economizer, Panel, Controls And Damper(s), Add	1,615.36	
For 2 Coils, Independent Circuits, Add	668.59	
23 73 13 00-0011 EA 2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,295.78	1,183.77
For Flat Filter Box And Throwaway Filters, Add	545.02	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,039.31	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,550.52	
For Manual Roll Filter, Add	2,701.69	
For Automatic Roll Filter, Add	2,931.92	
For Hot Water Heating Coil, Aluminum Fins, Add	1,320.28	
For Electric Heating Coil, Add	2,241.22	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,241.22	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,010.99	
For Steam Heating Coil, Aluminum Fins, Add	1,780.75	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,465.96	
For Chilled Water Cooling Coil, Copper Fins, Add	2,701.69	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,471.45	
For Hot Water Heating Coil, Copper Fins, Add	1,780.75	
For Variable Air Volume, Add	644.66	
For Economizer, Panel, Controls And Damper(s), Add	1,680.10	
For 2 Coils, Independent Circuits, Add	721.67	
23 73 13 00-0012 EA 2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,789.92	1,273.76
For Flat Filter Box And Throwaway Filters, Add	588.02	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,121.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,673.09	
For Manual Roll Filter, Add	2,915.71	
For Automatic Roll Filter, Add	3,164.23	
For Hot Water Heating Coil, Aluminum Fins, Add	1,424.56	
For Electric Heating Coil, Add	2,418.66	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,418.66	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,170.14	
For Steam Heating Coil, Aluminum Fins, Add	1,921.61	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,582.12	
For Chilled Water Cooling Coil, Copper Fins, Add	2,915.71	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,667.18	
For Hot Water Heating Coil, Copper Fins, Add	1,921.61	
For Variable Air Volume, Add	695.87	
For Economizer, Panel, Controls And Damper(s), Add	1,750.69	
For 2 Coils, Independent Circuits, Add	778.40	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0013 EA 3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 7,894.35	7,894.35	1,474.39
For Flat Filter Box And Throwaway Filters, Add	684.12	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,305.06	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,947.06	
For Manual Roll Filter, Add	3,394.10	
For Automatic Roll Filter, Add	3,683.51	
For Hot Water Heating Coil, Aluminum Fins, Add	1,657.66	
For Electric Heating Coil, Add	2,815.28	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,815.28	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,525.88	
For Steam Heating Coil, Aluminum Fins, Add	2,236.47	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,841.75	
For Chilled Water Cooling Coil, Copper Fins, Add	3,394.10	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,104.69	
For Hot Water Heating Coil, Copper Fins, Add	2,236.47	
For Variable Air Volume, Add	810.34	
For Economizer, Panel, Controls And Damper(s), Add	1,908.42	
For 2 Coils, Independent Circuits, Add	905.20	
23 73 13 00-0014 EA 3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 8,288.98	8,288.98	1,584.46
For Flat Filter Box And Throwaway Filters, Add	715.69	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,363.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,033.86	
For Manual Roll Filter, Add	3,540.07	
For Automatic Roll Filter, Add	3,841.31	
For Hot Water Heating Coil, Aluminum Fins, Add	1,732.62	
For Electric Heating Coil, Add	2,937.59	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,937.59	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,636.35	
For Steam Heating Coil, Aluminum Fins, Add	2,335.11	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,920.66	
For Chilled Water Cooling Coil, Copper Fins, Add	3,540.07	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,238.83	
For Hot Water Heating Coil, Copper Fins, Add	2,335.11	
For Variable Air Volume, Add	843.48	
For Economizer, Panel, Controls And Damper(s), Add	1,995.28	
For 2 Coils, Independent Circuits, Add	949.39	
23 73 13 00-0015 EA 3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 8,694.15	8,694.15	1,702.83
For Flat Filter Box And Throwaway Filters, Add	747.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,422.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,121.72	
For Manual Roll Filter, Add	3,687.10	
For Automatic Roll Filter, Add	4,000.18	
For Hot Water Heating Coil, Aluminum Fins, Add	1,808.64	
For Electric Heating Coil, Add	3,060.95	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,060.95	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,747.87	
For Steam Heating Coil, Aluminum Fins, Add	2,434.80	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,000.09	
For Chilled Water Cooling Coil, Copper Fins, Add	3,687.10	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,374.02	
For Hot Water Heating Coil, Copper Fins, Add	2,434.80	
For Variable Air Volume, Add	876.61	
For Economizer, Panel, Controls And Damper(s), Add	2,087.95	
For 2 Coils, Independent Circuits, Add	994.65	
23 73 13 00-0016 EA 4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 9,587.20	9,587.20	1,965.86
For Flat Filter Box And Throwaway Filters, Add	818.26	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,552.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,314.31	
For Manual Roll Filter, Add	4,008.79	
For Automatic Roll Filter, Add	4,347.69	
For Hot Water Heating Coil, Aluminum Fins, Add	1,975.41	
For Electric Heating Coil, Add	3,331.00	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,331.00	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,992.10	
For Steam Heating Coil, Aluminum Fins, Add	2,653.20	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,173.84	
For Chilled Water Cooling Coil, Copper Fins, Add	4,008.79	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,669.89	
For Hot Water Heating Coil, Copper Fins, Add	2,653.20	
For Variable Air Volume, Add	948.91	
For Economizer, Panel, Controls And Damper(s), Add	2,063.71	
For 2 Coils, Independent Circuits, Add	1,094.28	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0017 EA 4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	9,587.20	1,965.86
For Flat Filter Box And Throwaway Filters, Add	818.26	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,552.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,314.31	
For Manual Roll Filter, Add	4,008.79	
For Automatic Roll Filter, Add	4,347.69	
For Hot Water Heating Coil, Aluminum Fins, Add	1,975.41	
For Electric Heating Coil, Add	3,331.00	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,331.00	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,992.10	
For Steam Heating Coil, Aluminum Fins, Add	2,653.20	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,173.84	
For Chilled Water Cooling Coil, Copper Fins, Add	4,008.79	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,669.89	
For Hot Water Heating Coil, Copper Fins, Add	2,653.20	
For Variable Air Volume, Add	948.91	
For Economizer, Panel, Controls And Damper(s), Add	2,063.71	
For 2 Coils, Independent Circuits, Add	1,094.28	
23 73 13 00-0018 EA 5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	10,563.69	2,257.98
For Flat Filter Box And Throwaway Filters, Add	895.05	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,693.32	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,523.85	
For Manual Roll Filter, Add	4,358.19	
For Automatic Roll Filter, Add	4,725.06	
For Hot Water Heating Coil, Aluminum Fins, Add	2,156.98	
For Electric Heating Coil, Add	3,624.45	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,624.45	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,257.58	
For Steam Heating Coil, Aluminum Fins, Add	2,890.71	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,362.53	
For Chilled Water Cooling Coil, Copper Fins, Add	4,358.19	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,991.32	
For Hot Water Heating Coil, Copper Fins, Add	2,890.71	
For Variable Air Volume, Add	1,027.23	
For Economizer, Panel, Controls And Damper(s), Add	2,230.52	
For 2 Coils, Independent Circuits, Add	1,203.12	
23 73 13 00-0019 EA 5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,139.03	2,449.71
For Flat Filter Box And Throwaway Filters, Add	938.88	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,772.75	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,641.63	
For Manual Roll Filter, Add	4,551.28	
For Automatic Roll Filter, Add	4,933.21	
For Hot Water Heating Coil, Aluminum Fins, Add	2,259.70	
For Electric Heating Coil, Add	3,787.42	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,787.42	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,405.49	
For Steam Heating Coil, Aluminum Fins, Add	3,023.56	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,466.61	
For Chilled Water Cooling Coil, Copper Fins, Add	4,551.28	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,169.35	
For Hot Water Heating Coil, Copper Fins, Add	3,023.56	
For Variable Air Volume, Add	1,069.41	
For Economizer, Panel, Controls And Damper(s), Add	2,340.16	
For 2 Coils, Independent Circuits, Add	1,266.68	
23 73 13 00-0020 EA 6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,699.81	2,631.76
For Flat Filter Box And Throwaway Filters, Add	981.98	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,851.17	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,757.95	
For Manual Roll Filter, Add	4,742.92	
For Automatic Roll Filter, Add	5,139.91	
For Hot Water Heating Coil, Aluminum Fins, Add	2,360.96	
For Electric Heating Coil, Add	3,948.93	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,948.93	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,551.94	
For Steam Heating Coil, Aluminum Fins, Add	3,154.95	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,569.96	
For Chilled Water Cooling Coil, Copper Fins, Add	4,742.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,345.93	
For Hot Water Heating Coil, Copper Fins, Add	3,154.95	
For Variable Air Volume, Add	1,111.58	
For Economizer, Panel, Controls And Damper(s), Add	2,443.98	
For 2 Coils, Independent Circuits, Add	1,328.78	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0021 EA 6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	12,264.97 1,025.30 1,929.89 2,874.72 4,934.99 5,347.05 2,462.66 4,110.88 4,110.88 3,698.83 3,286.77 2,673.52 4,934.99 4,522.94 3,286.77 1,153.75 2,549.55 1,391.32	2,817.28
23 73 13 00-0022 EA 7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	12,917.75 1,075.16 2,020.34 3,008.85 5,155.20 5,584.47 2,579.58 4,296.66 4,296.66 3,867.39 3,438.12 2,792.23 5,155.20 4,725.93 3,438.12 1,201.95 2,672.95 1,463.48	3,032.55
23 73 13 00-0023 EA 7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	13,583.15 1,125.64 2,111.68 3,144.25 5,376.66 5,823.15 2,697.76 4,483.70 4,483.70 4,037.21 3,590.73 2,911.57 5,376.66 4,930.18 3,590.73 1,250.15 2,576.05 1,536.91	3,249.21
23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	14,274.51 1,177.42 2,204.83 3,282.24 5,600.72 6,064.42 2,818.54 4,673.33 4,673.33 4,209.63 3,745.93 3,032.21 5,600.72 5,137.02 3,745.93 1,298.35 2,680.17 1,612.93	3,499.00

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0025 EA 9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	15,064.88	3,790.52
For Flat Filter Box And Throwaway Filters, Add	1,236.31	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,310.50	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,438.74	
For Manual Roll Filter, Add	5,854.05	
For Automatic Roll Filter, Add	6,337.11	
For Hot Water Heating Coil, Aluminum Fins, Add	2,955.67	
For Electric Heating Coil, Add	4,887.92	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,887.92	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,404.86	
For Steam Heating Coil, Aluminum Fins, Add	3,921.80	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,168.55	
For Chilled Water Cooling Coil, Copper Fins, Add	5,854.05	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,370.98	
For Hot Water Heating Coil, Copper Fins, Add	3,921.80	
For Variable Air Volume, Add	1,352.57	
For Economizer, Panel, Controls And Damper(s), Add	2,801.09	
For 2 Coils, Independent Circuits, Add	1,699.71	
23 73 13 00-0026 EA 10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	15,831.39	4,047.03
For Flat Filter Box And Throwaway Filters, Add	1,294.00	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,414.51	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,592.85	
For Manual Roll Filter, Add	6,104.99	
For Automatic Roll Filter, Add	6,607.41	
For Hot Water Heating Coil, Aluminum Fins, Add	3,090.42	
For Electric Heating Coil, Add	5,100.13	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,100.13	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,597.70	
For Steam Heating Coil, Aluminum Fins, Add	4,095.28	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,303.71	
For Chilled Water Cooling Coil, Copper Fins, Add	6,104.99	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,602.56	
For Hot Water Heating Coil, Copper Fins, Add	4,095.28	
For Variable Air Volume, Add	1,406.80	
For Economizer, Panel, Controls And Damper(s), Add	2,914.85	
For 2 Coils, Independent Circuits, Add	1,784.11	
23 73 13 00-0027 EA 11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	15,821.14	3,918.58
For Flat Filter Box And Throwaway Filters, Add	1,303.17	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,438.97	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,630.56	
For Manual Roll Filter, Add	6,191.11	
For Automatic Roll Filter, Add	6,703.22	
For Hot Water Heating Coil, Aluminum Fins, Add	3,118.45	
For Electric Heating Coil, Add	5,166.89	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,166.89	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,654.78	
For Steam Heating Coil, Aluminum Fins, Add	4,142.67	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,351.61	
For Chilled Water Cooling Coil, Copper Fins, Add	6,191.11	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,679.00	
For Hot Water Heating Coil, Copper Fins, Add	4,142.67	
For Variable Air Volume, Add	1,433.91	
For Economizer, Panel, Controls And Damper(s), Add	2,853.68	
For 2 Coils, Independent Circuits, Add	1,786.96	
23 73 13 00-0028 EA 12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	16,645.38	4,347.55
For Flat Filter Box And Throwaway Filters, Add	1,354.06	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,521.84	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,751.71	
For Manual Roll Filter, Add	6,360.68	
For Automatic Roll Filter, Add	6,882.47	
For Hot Water Heating Coil, Aluminum Fins, Add	3,229.92	
For Electric Heating Coil, Add	5,317.09	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,317.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,795.30	
For Steam Heating Coil, Aluminum Fins, Add	4,273.50	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,441.23	
For Chilled Water Cooling Coil, Copper Fins, Add	6,360.68	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,838.88	
For Hot Water Heating Coil, Copper Fins, Add	4,273.50	
For Variable Air Volume, Add	1,461.02	
For Economizer, Panel, Controls And Damper(s), Add	3,042.86	
For 2 Coils, Independent Circuits, Add	1,873.26	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0029 EA 13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan17,491.51	17,491.51	4,522.18
For Flat Filter Box And Throwaway Filters, Add	1,427.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,662.19	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,961.12	
For Manual Roll Filter, Add	6,726.09	
For Automatic Roll Filter, Add	7,279.08	
For Hot Water Heating Coil, Aluminum Fins, Add	3,408.13	
For Electric Heating Coil, Add	5,620.10	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,620.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,067.11	
For Steam Heating Coil, Aluminum Fins, Add	4,514.12	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,639.54	
For Chilled Water Cooling Coil, Copper Fins, Add	6,726.09	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,173.10	
For Hot Water Heating Coil, Copper Fins, Add	4,514.12	
For Variable Air Volume, Add	1,548.38	
For Economizer, Panel, Controls And Damper(s), Add	2,686.33	
For 2 Coils, Independent Circuits, Add	1,970.35	
23 73 13 00-0030 EA 15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....18,399.41	18,399.41	4,697.31
For Flat Filter Box And Throwaway Filters, Add	1,504.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,806.86	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,176.71	
For Manual Roll Filter, Add	7,097.68	
For Automatic Roll Filter, Add	7,681.87	
For Hot Water Heating Coil, Aluminum Fins, Add	3,592.52	
For Electric Heating Coil, Add	5,929.29	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,929.29	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,345.10	
For Steam Heating Coil, Aluminum Fins, Add	4,760.91	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,840.94	
For Chilled Water Cooling Coil, Copper Fins, Add	7,097.68	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,513.49	
For Hot Water Heating Coil, Copper Fins, Add	4,760.91	
For Variable Air Volume, Add	1,635.74	
For Economizer, Panel, Controls And Damper(s), Add	2,743.11	
For 2 Coils, Independent Circuits, Add	2,073.62	
23 73 13 00-0031 EA 16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....19,336.04	19,336.04	4,877.97
For Flat Filter Box And Throwaway Filters, Add	1,586.50	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,964.73	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,412.39	
For Manual Roll Filter, Add	7,510.87	
For Automatic Roll Filter, Add	8,130.57	
For Hot Water Heating Coil, Aluminum Fins, Add	3,792.69	
For Electric Heating Coil, Add	6,271.48	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,271.48	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,651.78	
For Steam Heating Coil, Aluminum Fins, Add	5,032.09	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,065.28	
For Chilled Water Cooling Coil, Copper Fins, Add	7,510.87	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,891.18	
For Hot Water Heating Coil, Copper Fins, Add	5,032.09	
For Variable Air Volume, Add	1,735.15	
For Economizer, Panel, Controls And Damper(s), Add	2,788.42	
For 2 Coils, Independent Circuits, Add	2,181.48	
23 73 13 00-0032 EA 17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....20,327.85	20,327.85	5,058.83
For Flat Filter Box And Throwaway Filters, Add	1,671.59	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,126.47	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,653.59	
For Manual Roll Filter, Add	7,929.59	
For Automatic Roll Filter, Add	8,584.79	
For Hot Water Heating Coil, Aluminum Fins, Add	3,998.39	
For Electric Heating Coil, Add	6,619.19	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,619.19	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,963.99	
For Steam Heating Coil, Aluminum Fins, Add	5,308.79	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,292.39	
For Chilled Water Cooling Coil, Copper Fins, Add	7,929.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,274.39	
For Hot Water Heating Coil, Copper Fins, Add	5,308.79	
For Variable Air Volume, Add	1,834.56	
For Economizer, Panel, Controls And Damper(s), Add	2,844.77	
For 2 Coils, Independent Circuits, Add	2,294.87	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0033	EA		20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	22,556.28	5,423.43
			For Flat Filter Box And Throwaway Filters, Add	1,868.01	
			For Medium Capacity Filter Box And Throwaway Filters, Add	3,503.44	
			For Combination Filter Mixing Box And Throwaway Filters, Add	5,956.59	
			For Manual Roll Filter, Add	8,473.25	
			For Automatic Roll Filter, Add	8,917.37	
			For Hot Water Heating Coil, Aluminum Fins, Add	3,736.01	
			For Electric Heating Coil, Add	4,032.09	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	6,696.79	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,956.59	
			For Steam Heating Coil, Aluminum Fins, Add	5,216.40	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	4,088.59	
			For Chilled Water Cooling Coil, Copper Fins, Add	8,177.17	
			For Direct Expansion Cooling Coil, Copper Fins, Add	7,436.98	
			For Hot Water Heating Coil, Copper Fins, Add	5,956.59	
			For Variable Air Volume, Add	2,072.54	
			For Economizer, Panel, Controls And Damper(s), Add	3,091.67	
			For 2 Coils, Independent Circuits, Add	2,551.71	
23 73 13 00-0034	EA		22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	24,948.50	5,844.98
			For Flat Filter Box And Throwaway Filters, Add	2,075.84	
			For Medium Capacity Filter Box And Throwaway Filters, Add	3,900.27	
			For Combination Filter Mixing Box And Throwaway Filters, Add	6,636.92	
			For Manual Roll Filter, Add	9,453.53	
			For Automatic Roll Filter, Add	9,950.58	
			For Hot Water Heating Coil, Aluminum Fins, Add	4,151.68	
			For Electric Heating Coil, Add	4,483.04	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	7,465.33	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,636.92	
			For Steam Heating Coil, Aluminum Fins, Add	5,808.51	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	4,561.08	
			For Chilled Water Cooling Coil, Copper Fins, Add	9,122.16	
			For Direct Expansion Cooling Coil, Copper Fins, Add	8,293.75	
			For Hot Water Heating Coil, Copper Fins, Add	6,636.92	
			For Variable Air Volume, Add	2,319.56	
			For Economizer, Panel, Controls And Damper(s), Add	3,201.54	
			For 2 Coils, Independent Circuits, Add	2,826.22	
23 73 13 00-0035	EA		25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	27,522.89	6,262.77
			For Flat Filter Box And Throwaway Filters, Add	2,304.61	
			For Medium Capacity Filter Box And Throwaway Filters, Add	4,340.62	
			For Combination Filter Mixing Box And Throwaway Filters, Add	7,394.63	
			For Manual Roll Filter, Add	10,551.43	
			For Automatic Roll Filter, Add	11,108.51	
			For Hot Water Heating Coil, Aluminum Fins, Add	4,609.23	
			For Electric Heating Coil, Add	4,980.61	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	8,323.10	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,394.63	
			For Steam Heating Coil, Aluminum Fins, Add	6,466.17	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	5,090.02	
			For Chilled Water Cooling Coil, Copper Fins, Add	10,180.04	
			For Direct Expansion Cooling Coil, Copper Fins, Add	9,251.57	
			For Hot Water Heating Coil, Copper Fins, Add	7,394.63	
			For Variable Air Volume, Add	2,599.71	
			For Economizer, Panel, Controls And Damper(s), Add	3,301.86	
			For 2 Coils, Independent Circuits, Add	3,123.68	
23 73 13 00-0036	EA		27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	33,386.83	6,744.85
			For Flat Filter Box And Throwaway Filters, Add	2,857.09	
			For Medium Capacity Filter Box And Throwaway Filters, Add	5,425.23	
			For Combination Filter Mixing Box And Throwaway Filters, Add	9,277.44	
			For Manual Roll Filter, Add	13,315.80	
			For Automatic Roll Filter, Add	14,028.45	
			For Hot Water Heating Coil, Aluminum Fins, Add	5,714.19	
			For Electric Heating Coil, Add	6,189.29	
			For Chilled Water Cooling Coil, Aluminum Fins, Add	10,465.19	
			For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,277.44	
			For Steam Heating Coil, Aluminum Fins, Add	8,089.69	
			For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	6,420.35	
			For Chilled Water Cooling Coil, Copper Fins, Add	12,840.70	
			For Direct Expansion Cooling Coil, Copper Fins, Add	11,652.94	
			For Hot Water Heating Coil, Copper Fins, Add	9,277.44	
			For Variable Air Volume, Add	3,325.70	
			For Economizer, Panel, Controls And Damper(s), Add	3,420.57	
			For 2 Coils, Independent Circuits, Add	3,813.78	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Central HVAC Equipment			23 70
Indoor Central-Station Air-Handling Units			23 73

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0037 EA 30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 37,130.40	7,199.13	
For Flat Filter Box And Throwaway Filters, Add	3,199.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,090.09	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,426.42	
For Manual Roll Filter, Add	14,991.52	
For Automatic Roll Filter, Add	15,797.12	
For Hot Water Heating Coil, Aluminum Fins, Add	6,398.39	
For Electric Heating Coil, Add	6,935.46	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,769.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,426.42	
For Steam Heating Coil, Aluminum Fins, Add	9,083.74	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	7,227.22	
For Chilled Water Cooling Coil, Copper Fins, Add	14,454.45	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,111.77	
For Hot Water Heating Coil, Copper Fins, Add	10,426.42	
For Variable Air Volume, Add	3,759.49	
For Economizer, Panel, Controls And Damper(s), Add	3,306.53	
For 2 Coils, Independent Circuits, Add	4,250.11	
23 73 13 00-0038 EA 32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 40,612.53	7,752.40	
For Flat Filter Box And Throwaway Filters, Add	3,507.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,683.49	
For Combination Filter Mixing Box And Throwaway Filters, Add	11,447.05	
For Manual Roll Filter, Add	16,469.38	
For Automatic Roll Filter, Add	17,355.68	
For Hot Water Heating Coil, Aluminum Fins, Add	7,015.57	
For Electric Heating Coil, Add	7,606.43	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,924.20	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,447.05	
For Steam Heating Coil, Aluminum Fins, Add	9,969.89	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	7,939.26	
For Chilled Water Cooling Coil, Copper Fins, Add	15,878.52	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,401.36	
For Hot Water Heating Coil, Copper Fins, Add	11,447.05	
For Variable Air Volume, Add	4,136.04	
For Economizer, Panel, Controls And Damper(s), Add	3,425.40	
For 2 Coils, Independent Circuits, Add	4,652.12	
23 73 13 00-0039 EA 35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 44,517.82	8,452.13	
For Flat Filter Box And Throwaway Filters, Add	3,850.44	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,340.08	
For Combination Filter Mixing Box And Throwaway Filters, Add	12,574.54	
For Manual Roll Filter, Add	18,098.02	
For Automatic Roll Filter, Add	19,072.75	
For Hot Water Heating Coil, Aluminum Fins, Add	7,700.89	
For Electric Heating Coil, Add	8,350.71	
For Chilled Water Cooling Coil, Aluminum Fins, Add	14,199.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,574.54	
For Steam Heating Coil, Aluminum Fins, Add	10,949.99	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	8,724.10	
For Chilled Water Cooling Coil, Copper Fins, Add	17,448.20	
For Direct Expansion Cooling Coil, Copper Fins, Add	15,823.65	
For Hot Water Heating Coil, Copper Fins, Add	12,574.54	
For Variable Air Volume, Add	4,548.75	
For Economizer, Panel, Controls And Damper(s), Add	3,569.02	
For 2 Coils, Independent Circuits, Add	5,101.60	
23 73 13 00-0040 EA 37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 47,845.05	8,929.55	
For Flat Filter Box And Throwaway Filters, Add	4,146.98	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,911.45	
For Combination Filter Mixing Box And Throwaway Filters, Add	13,558.16	
For Manual Roll Filter, Add	19,524.25	
For Automatic Roll Filter, Add	20,577.08	
For Hot Water Heating Coil, Aluminum Fins, Add	8,293.97	
For Electric Heating Coil, Add	8,995.86	
For Chilled Water Cooling Coil, Aluminum Fins, Add	15,312.89	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,558.16	
For Steam Heating Coil, Aluminum Fins, Add	11,803.43	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	9,411.18	
For Chilled Water Cooling Coil, Copper Fins, Add	18,822.35	
For Direct Expansion Cooling Coil, Copper Fins, Add	17,067.62	
For Hot Water Heating Coil, Copper Fins, Add	13,558.16	
For Variable Air Volume, Add	4,913.25	
For Economizer, Panel, Controls And Damper(s), Add	3,677.56	
For 2 Coils, Independent Circuits, Add	5,486.40	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0041 EA 40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	51,583.88	9,552.44
For Flat Filter Box And Throwaway Filters, Add	4,473.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,536.81	
For Combination Filter Mixing Box And Throwaway Filters, Add	14,631.35	
For Manual Roll Filter, Add	21,072.97	
For Automatic Roll Filter, Add	22,209.73	
For Hot Water Heating Coil, Aluminum Fins, Add	8,947.57	
For Electric Heating Coil, Add	9,705.41	
For Chilled Water Cooling Coil, Aluminum Fins, Add	16,525.95	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	14,631.35	
For Steam Heating Coil, Aluminum Fins, Add	12,736.76	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	10,157.57	
For Chilled Water Cooling Coil, Copper Fins, Add	20,315.13	
For Direct Expansion Cooling Coil, Copper Fins, Add	18,420.54	
For Hot Water Heating Coil, Copper Fins, Add	14,631.35	
For Variable Air Volume, Add	5,304.86	
For Economizer, Panel, Controls And Damper(s), Add	3,541.50	
For 2 Coils, Independent Circuits, Add	5,916.23	
23 73 13 00-0042 EA 45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	55,660.57	10,313.96
For Flat Filter Box And Throwaway Filters, Add	4,829.32	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,216.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	15,797.50	
For Manual Roll Filter, Add	22,754.89	
For Automatic Roll Filter, Add	23,982.66	
For Hot Water Heating Coil, Aluminum Fins, Add	9,658.64	
For Electric Heating Coil, Add	10,477.15	
For Chilled Water Cooling Coil, Aluminum Fins, Add	17,843.79	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,797.50	
For Steam Heating Coil, Aluminum Fins, Add	13,751.22	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	10,968.19	
For Chilled Water Cooling Coil, Copper Fins, Add	21,936.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	19,890.08	
For Hot Water Heating Coil, Copper Fins, Add	15,797.50	
For Variable Air Volume, Add	5,729.61	
For Economizer, Panel, Controls And Damper(s), Add	3,671.85	
For 2 Coils, Independent Circuits, Add	6,384.57	
23 73 13 00-0043 EA 47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	58,001.65	10,798.40
For Flat Filter Box And Throwaway Filters, Add	5,030.29	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,598.65	
For Combination Filter Mixing Box And Throwaway Filters, Add	16,451.20	
For Manual Roll Filter, Add	23,693.90	
For Automatic Roll Filter, Add	24,972.03	
For Hot Water Heating Coil, Aluminum Fins, Add	10,060.58	
For Electric Heating Coil, Add	10,912.66	
For Chilled Water Cooling Coil, Aluminum Fins, Add	18,581.41	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	16,451.20	
For Steam Heating Coil, Aluminum Fins, Add	14,320.99	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	11,420.91	
For Chilled Water Cooling Coil, Copper Fins, Add	22,841.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	20,711.61	
For Hot Water Heating Coil, Copper Fins, Add	16,451.20	
For Variable Air Volume, Add	5,964.58	
For Economizer, Panel, Controls And Damper(s), Add	3,754.69	
For 2 Coils, Independent Circuits, Add	6,652.25	
23 73 13 00-0044 EA 50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	60,203.27	11,213.73
For Flat Filter Box And Throwaway Filters, Add	5,219.98	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,959.76	
For Combination Filter Mixing Box And Throwaway Filters, Add	17,069.43	
For Manual Roll Filter, Add	24,582.82	
For Automatic Roll Filter, Add	25,908.71	
For Hot Water Heating Coil, Aluminum Fins, Add	10,439.97	
For Electric Heating Coil, Add	11,323.90	
For Chilled Water Cooling Coil, Aluminum Fins, Add	19,279.25	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,069.43	
For Steam Heating Coil, Aluminum Fins, Add	14,859.61	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	11,849.45	
For Chilled Water Cooling Coil, Copper Fins, Add	23,698.89	
For Direct Expansion Cooling Coil, Copper Fins, Add	21,489.07	
For Hot Water Heating Coil, Copper Fins, Add	17,069.43	
For Variable Air Volume, Add	6,187.50	
For Economizer, Panel, Controls And Damper(s), Add	3,830.86	
For 2 Coils, Independent Circuits, Add	6,904.26	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Indoor Central-Station Air-Handling Units

23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0045 EA 55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 64,861.74 For Flat Filter Box And Throwaway Filters, Add 5,630.43 For Medium Capacity Filter Box And Throwaway Filters, Add 10,747.40 For Combination Filter Mixing Box And Throwaway Filters, Add 18,422.86 For Manual Roll Filter, Add 26,539.81 For Automatic Roll Filter, Add 27,972.22 For Hot Water Heating Coil, Aluminum Fins, Add 11,260.85 For Electric Heating Coil, Add 12,215.79 For Chilled Water Cooling Coil, Aluminum Fins, Add 20,810.20 For Direct Expansion Cooling Coil, Aluminum Fins, Add 18,422.86 For Steam Heating Coil, Aluminum Fins, Add 16,035.53 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 12,792.44 For Chilled Water Cooling Coil, Copper Fins, Add 25,584.88 For Direct Expansion Cooling Coil, Copper Fins, Add 23,197.54 For Hot Water Heating Coil, Copper Fins, Add 18,422.86 For Variable Air Volume, Add 6,684.55 For Economizer, Panel, Controls And Damper(s), Add 3,969.37 For 2 Coils, Independent Circuits, Add 7,441.11	11,975.16	
23 73 13 00-0046 EA 60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 70,814.36 For Flat Filter Box And Throwaway Filters, Add 6,165.82 For Medium Capacity Filter Box And Throwaway Filters, Add 11,782.27 For Combination Filter Mixing Box And Throwaway Filters, Add 20,206.95 For Manual Roll Filter, Add 29,132.31 For Automatic Roll Filter, Add 30,707.37 For Hot Water Heating Coil, Aluminum Fins, Add 12,331.64 For Electric Heating Coil, Add 13,381.68 For Chilled Water Cooling Coil, Aluminum Fins, Add 22,832.06 For Direct Expansion Cooling Coil, Aluminum Fins, Add 20,206.95 For Steam Heating Coil, Aluminum Fins, Add 17,581.85 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 14,041.13 For Chilled Water Cooling Coil, Copper Fins, Add 28,082.26 For Direct Expansion Cooling Coil, Copper Fins, Add 25,457.16 For Hot Water Heating Coil, Copper Fins, Add 20,206.95 For Variable Air Volume, Add 7,350.29 For Economizer, Panel, Controls And Damper(s), Add 3,731.23 For 2 Coils, Independent Circuits, Add 8,131.48	12,805.80	
23 73 13 00-0047 EA 65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 77,529.58 For Flat Filter Box And Throwaway Filters, Add 6,764.09 For Medium Capacity Filter Box And Throwaway Filters, Add 12,934.87 For Combination Filter Mixing Box And Throwaway Filters, Add 22,191.03 For Manual Roll Filter, Add 32,008.92 For Automatic Roll Filter, Add 33,741.48 For Hot Water Heating Coil, Aluminum Fins, Add 13,528.19 For Electric Heating Coil, Add 14,683.23 For Chilled Water Cooling Coil, Aluminum Fins, Add 25,078.64 For Direct Expansion Cooling Coil, Aluminum Fins, Add 22,191.03 For Steam Heating Coil, Aluminum Fins, Add 19,303.41 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 15,426.94 For Chilled Water Cooling Coil, Copper Fins, Add 30,853.87 For Direct Expansion Cooling Coil, Copper Fins, Add 27,966.26 For Hot Water Heating Coil, Copper Fins, Add 22,191.03 For Variable Air Volume, Add 8,085.32 For Economizer, Panel, Controls And Damper(s), Add 3,877.73 For 2 Coils, Independent Circuits, Add 8,908.00	13,844.11	
23 73 13 00-0048 EA 70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 85,037.44 For Flat Filter Box And Throwaway Filters, Add 7,428.89 For Medium Capacity Filter Box And Throwaway Filters, Add 14,212.87 For Combination Filter Mixing Box And Throwaway Filters, Add 24,388.85 For Manual Roll Filter, Add 35,190.72 For Automatic Roll Filter, Add 37,096.93 For Hot Water Heating Coil, Aluminum Fins, Add 14,857.79 For Electric Heating Coil, Add 16,128.59 For Chilled Water Cooling Coil, Aluminum Fins, Add 27,565.87 For Direct Expansion Cooling Coil, Aluminum Fins, Add 24,388.85 For Steam Heating Coil, Aluminum Fins, Add 21,211.83 For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add 16,959.95 For Chilled Water Cooling Coil, Copper Fins, Add 33,919.91 For Direct Expansion Cooling Coil, Copper Fins, Add 30,742.89 For Hot Water Heating Coil, Copper Fins, Add 24,388.85 For Variable Air Volume, Add 8,895.66 For Economizer, Panel, Controls And Damper(s), Add 4,049.70 For 2 Coils, Independent Circuits, Add 9,774.55	15,020.86	
23 73 13 00-0049 Multi-Zone Units (23 73 13) Note: Horizontal/vertical blow-thru fan, motor and cabinet.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0050 EA 1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	5,222.10	1,245.77
For Economizer, Panel, Controls And Damper(s), Add	1,885.54	
For Flat Filter Box And Throwaway Filters, Add	433.24	
For Medium Capacity Filter Box And Throwaway Filters, Add	813.11	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,038.62	
For Manual Roll Filter, Add	2,071.45	
For Automatic Roll Filter, Add	2,071.45	
For Hot Water Heating Coil, Aluminum Fins, Add	522.21	
For Electric Heating Coil, Add	591.07	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,727.18	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,727.18	
For Chilled Water Cooling Coil, Copper Fins, Add	2,071.45	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,071.45	
For 2 Coils, Independent Circuits, Add	591.07	
23 73 13 00-0051 EA 1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	6,511.62	1,560.72
For Economizer, Panel, Controls And Damper(s), Add	2,200.78	
For Flat Filter Box And Throwaway Filters, Add	539.68	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,012.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,293.45	
For Manual Roll Filter, Add	2,578.03	
For Automatic Roll Filter, Add	2,578.03	
For Hot Water Heating Coil, Aluminum Fins, Add	651.16	
For Electric Heating Coil, Add	736.80	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,149.84	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,149.84	
For Chilled Water Cooling Coil, Copper Fins, Add	2,578.03	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,578.03	
For 2 Coils, Independent Circuits, Add	736.80	
23 73 13 00-0052 EA 1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	7,924.25	1,661.10
For Economizer, Panel, Controls And Damper(s), Add	2,300.96	
For Flat Filter Box And Throwaway Filters, Add	673.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,276.39	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,625.14	
For Manual Roll Filter, Add	3,290.58	
For Automatic Roll Filter, Add	3,290.58	
For Hot Water Heating Coil, Aluminum Fins, Add	792.43	
For Electric Heating Coil, Add	903.45	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,735.43	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,735.43	
For Chilled Water Cooling Coil, Copper Fins, Add	3,290.58	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,290.58	
For 2 Coils, Independent Circuits, Add	903.45	
23 73 13 00-0053 EA 2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	8,264.03	1,778.77
For Economizer, Panel, Controls And Damper(s), Add	2,418.31	
For Flat Filter Box And Throwaway Filters, Add	699.38	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,322.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,684.94	
For Manual Roll Filter, Add	3,402.02	
For Automatic Roll Filter, Add	3,402.02	
For Hot Water Heating Coil, Aluminum Fins, Add	826.40	
For Electric Heating Coil, Add	940.87	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,829.66	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,829.66	
For Chilled Water Cooling Coil, Copper Fins, Add	3,402.02	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,402.02	
For 2 Coils, Independent Circuits, Add	940.87	
23 73 13 00-0054 EA 2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	9,588.14	1,906.83
For Economizer, Panel, Controls And Damper(s), Add	2,546.90	
For Flat Filter Box And Throwaway Filters, Add	822.61	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,563.49	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,988.41	
For Manual Roll Filter, Add	4,047.61	
For Automatic Roll Filter, Add	4,047.61	
For Hot Water Heating Coil, Aluminum Fins, Add	958.81	
For Electric Heating Coil, Add	1,096.09	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,361.21	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,361.21	
For Chilled Water Cooling Coil, Copper Fins, Add	4,047.61	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,047.61	
For 2 Coils, Independent Circuits, Add	1,096.09	
23 73 13 00-0055 EA 3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	10,125.29	2,042.01
For Economizer, Panel, Controls And Damper(s), Add	2,681.91	
For Flat Filter Box And Throwaway Filters, Add	866.68	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,645.85	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,093.77	
For Manual Roll Filter, Add	4,256.26	
For Automatic Roll Filter, Add	4,256.26	
For Hot Water Heating Coil, Aluminum Fins, Add	1,012.53	
For Electric Heating Coil, Add	1,156.69	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,535.43	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,535.43	
For Chilled Water Cooling Coil, Copper Fins, Add	4,256.26	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,256.26	
For 2 Coils, Independent Circuits, Add	1,156.69	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Indoor Central-Station Air-Handling Units

23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0056 EA 3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	10,688.61	2,180.35
For Economizer, Panel, Controls And Damper(s), Add	2,820.18	
For Flat Filter Box And Throwaway Filters, Add	913.13	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,732.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,204.97	
For Manual Roll Filter, Add	4,477.19	
For Automatic Roll Filter, Add	4,477.19	
For Hot Water Heating Coil, Aluminum Fins, Add	1,068.86	
For Electric Heating Coil, Add	1,220.34	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,719.79	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,719.79	
For Chilled Water Cooling Coil, Copper Fins, Add	4,477.19	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,477.19	
For 2 Coils, Independent Circuits, Add	1,220.34	
23 73 13 00-0057 EA 4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	11,877.47	2,339.65
For Economizer, Panel, Controls And Damper(s), Add	2,584.32	
For Flat Filter Box And Throwaway Filters, Add	1,020.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,941.93	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,469.10	
For Manual Roll Filter, Add	5,031.80	
For Automatic Roll Filter, Add	5,031.80	
For Hot Water Heating Coil, Aluminum Fins, Add	1,187.75	
For Electric Heating Coil, Add	1,358.59	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,177.57	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,177.57	
For Chilled Water Cooling Coil, Copper Fins, Add	5,031.80	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,031.80	
For 2 Coils, Independent Circuits, Add	1,358.59	
23 73 13 00-0058 EA 4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	12,961.12	2,505.59
For Economizer, Panel, Controls And Damper(s), Add	2,718.78	
For Flat Filter Box And Throwaway Filters, Add	1,117.13	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,126.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,703.34	
For Manual Roll Filter, Add	5,517.80	
For Automatic Roll Filter, Add	5,517.80	
For Hot Water Heating Coil, Aluminum Fins, Add	1,296.11	
For Electric Heating Coil, Add	1,483.74	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,579.64	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,579.64	
For Chilled Water Cooling Coil, Copper Fins, Add	5,517.80	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,517.80	
For 2 Coils, Independent Circuits, Add	1,483.74	
23 73 13 00-0059 EA 5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	13,712.26	2,676.07
For Economizer, Panel, Controls And Damper(s), Add	2,847.88	
For Flat Filter Box And Throwaway Filters, Add	1,180.51	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,246.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,855.92	
For Manual Roll Filter, Add	5,825.29	
For Automatic Roll Filter, Add	5,825.29	
For Hot Water Heating Coil, Aluminum Fins, Add	1,371.23	
For Electric Heating Coil, Add	1,569.18	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,835.50	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,835.50	
For Chilled Water Cooling Coil, Copper Fins, Add	5,825.29	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,825.29	
For 2 Coils, Independent Circuits, Add	1,569.18	
23 73 13 00-0060 EA 5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	15,081.53	2,859.01
For Economizer, Panel, Controls And Damper(s), Add	2,997.42	
For Flat Filter Box And Throwaway Filters, Add	1,303.84	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,485.10	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,157.45	
For Manual Roll Filter, Add	6,456.04	
For Automatic Roll Filter, Add	6,456.04	
For Hot Water Heating Coil, Aluminum Fins, Add	1,508.15	
For Electric Heating Coil, Add	1,728.06	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,356.51	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,356.51	
For Chilled Water Cooling Coil, Copper Fins, Add	6,456.04	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,456.04	
For 2 Coils, Independent Circuits, Add	1,728.06	
23 73 13 00-0061 EA 6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	16,054.53	3,059.74
For Economizer, Panel, Controls And Damper(s), Add	3,153.87	
For Flat Filter Box And Throwaway Filters, Add	1,386.92	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,642.72	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,358.03	
For Manual Roll Filter, Add	6,863.19	
For Automatic Roll Filter, Add	6,863.19	
For Hot Water Heating Coil, Aluminum Fins, Add	1,605.45	
For Electric Heating Coil, Add	1,839.13	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,694.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,694.80	
For Chilled Water Cooling Coil, Copper Fins, Add	6,863.19	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,863.19	
For 2 Coils, Independent Circuits, Add	1,839.13	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0062 EA 6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	17,588.55	3,322.58
For Economizer, Panel, Controls And Damper(s), Add	3,358.52	
For Flat Filter Box And Throwaway Filters, Add	1,521.72	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,901.15	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,685.72	
For Manual Roll Filter, Add	7,539.46	
For Automatic Roll Filter, Add	7,539.46	
For Hot Water Heating Coil, Aluminum Fins, Add	1,758.86	
For Electric Heating Coil, Add	2,015.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,254.88	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,254.88	
For Chilled Water Cooling Coil, Copper Fins, Add	7,539.46	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,539.46	
For 2 Coils, Independent Circuits, Add	2,015.77	
23 73 13 00-0063 EA 7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	18,902.96	3,578.80
For Economizer, Panel, Controls And Damper(s), Add	3,560.73	
For Flat Filter Box And Throwaway Filters, Add	1,634.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,116.24	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,959.18	
For Manual Roll Filter, Add	8,096.94	
For Automatic Roll Filter, Add	8,096.94	
For Hot Water Heating Coil, Aluminum Fins, Add	1,890.30	
For Electric Heating Coil, Add	2,166.15	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,717.69	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,717.69	
For Chilled Water Cooling Coil, Copper Fins, Add	8,096.94	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,096.94	
For 2 Coils, Independent Circuits, Add	2,166.15	
23 73 13 00-0064 EA 7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	19,890.20	3,869.43
For Economizer, Panel, Controls And Damper(s), Add	3,146.67	
For Flat Filter Box And Throwaway Filters, Add	1,713.19	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,260.87	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,145.05	
For Manual Roll Filter, Add	8,457.10	
For Automatic Roll Filter, Add	8,457.10	
For Hot Water Heating Coil, Aluminum Fins, Add	1,989.02	
For Electric Heating Coil, Add	2,276.49	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,019.75	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,019.75	
For Chilled Water Cooling Coil, Copper Fins, Add	8,457.10	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,457.10	
For 2 Coils, Independent Circuits, Add	2,276.49	
23 73 13 00-0065 EA 8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	22,017.87	4,173.80
For Economizer, Panel, Controls And Damper(s), Add	3,326.40	
For Flat Filter Box And Throwaway Filters, Add	1,903.49	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,627.99	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,609.57	
For Manual Roll Filter, Add	9,425.12	
For Automatic Roll Filter, Add	9,425.12	
For Hot Water Heating Coil, Aluminum Fins, Add	2,201.79	
For Electric Heating Coil, Add	2,522.82	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,819.94	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,819.94	
For Chilled Water Cooling Coil, Copper Fins, Add	9,425.12	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,425.12	
For 2 Coils, Independent Circuits, Add	2,522.82	
23 73 13 00-0066 EA 8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	23,236.62	4,499.14
For Economizer, Panel, Controls And Damper(s), Add	3,512.66	
For Flat Filter Box And Throwaway Filters, Add	2,002.08	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,811.21	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,844.41	
For Manual Roll Filter, Add	9,885.90	
For Automatic Roll Filter, Add	9,885.90	
For Hot Water Heating Coil, Aluminum Fins, Add	2,323.66	
For Electric Heating Coil, Add	2,659.76	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,205.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,205.40	
For Chilled Water Cooling Coil, Copper Fins, Add	9,885.90	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,885.90	
For 2 Coils, Independent Circuits, Add	2,659.76	
23 73 13 00-0067 EA 9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	24,583.54	4,873.13
For Economizer, Panel, Controls And Damper(s), Add	3,715.76	
For Flat Filter Box And Throwaway Filters, Add	2,111.38	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,014.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,104.98	
For Manual Roll Filter, Add	10,398.22	
For Automatic Roll Filter, Add	10,398.22	
For Hot Water Heating Coil, Aluminum Fins, Add	2,458.35	
For Electric Heating Coil, Add	2,811.24	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,633.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,633.80	
For Chilled Water Cooling Coil, Copper Fins, Add	10,398.22	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,398.22	
For 2 Coils, Independent Circuits, Add	2,811.24	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Indoor Central-Station Air-Handling Units

23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0068 EA 10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	26,046.23	5,260.47
For Economizer, Panel, Controls And Damper(s), Add	3,435.96	
For Flat Filter Box And Throwaway Filters, Add	2,228.63	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,231.66	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,383.58	
For Manual Roll Filter, Add	10,941.48	
For Automatic Roll Filter, Add	10,941.48	
For Hot Water Heating Coil, Aluminum Fins, Add	2,604.62	
For Electric Heating Coil, Add	2,975.15	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,088.85	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,088.85	
For Chilled Water Cooling Coil, Copper Fins, Add	10,941.48	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,941.48	
For 2 Coils, Independent Circuits, Add	2,975.15	
23 73 13 00-0069 EA 11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	26,809.52	5,461.50
For Economizer, Panel, Controls And Damper(s), Add	3,526.17	
For Flat Filter Box And Throwaway Filters, Add	2,289.92	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,345.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,529.30	
For Manual Roll Filter, Add	11,225.99	
For Automatic Roll Filter, Add	11,225.99	
For Hot Water Heating Coil, Aluminum Fins, Add	2,680.95	
For Electric Heating Coil, Add	3,060.73	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,327.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,327.09	
For Chilled Water Cooling Coil, Copper Fins, Add	11,225.99	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,225.99	
For 2 Coils, Independent Circuits, Add	3,060.73	
23 73 13 00-0070 EA 12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	27,527.62	5,656.41
For Economizer, Panel, Controls And Damper(s), Add	3,602.81	
For Flat Filter Box And Throwaway Filters, Add	2,348.96	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,455.64	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,670.50	
For Manual Roll Filter, Add	11,505.98	
For Automatic Roll Filter, Add	11,505.98	
For Hot Water Heating Coil, Aluminum Fins, Add	2,752.76	
For Electric Heating Coil, Add	3,141.79	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,560.82	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,560.82	
For Chilled Water Cooling Coil, Copper Fins, Add	11,505.98	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,505.98	
For 2 Coils, Independent Circuits, Add	3,141.79	
23 73 13 00-0071 EA 13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	30,891.83	5,883.74
For Economizer, Panel, Controls And Damper(s), Add	3,085.57	
For Flat Filter Box And Throwaway Filters, Add	2,667.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,082.75	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,458.78	
For Manual Roll Filter, Add	13,197.98	
For Automatic Roll Filter, Add	13,197.98	
For Hot Water Heating Coil, Aluminum Fins, Add	3,089.18	
For Electric Heating Coil, Add	3,538.46	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,951.58	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,951.58	
For Chilled Water Cooling Coil, Copper Fins, Add	13,197.98	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,197.98	
For 2 Coils, Independent Circuits, Add	3,538.46	
23 73 13 00-0072 EA 15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	34,218.83	6,116.83
For Economizer, Panel, Controls And Damper(s), Add	3,264.92	
For Flat Filter Box And Throwaway Filters, Add	2,984.76	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,707.25	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,243.34	
For Manual Roll Filter, Add	14,886.27	
For Automatic Roll Filter, Add	14,886.27	
For Hot Water Heating Coil, Aluminum Fins, Add	3,421.88	
For Electric Heating Coil, Add	3,931.41	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,338.63	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,338.63	
For Chilled Water Cooling Coil, Copper Fins, Add	14,886.27	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,886.27	
For 2 Coils, Independent Circuits, Add	3,931.41	
23 73 13 00-0073 EA 16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	39,025.68	6,347.52
For Economizer, Panel, Controls And Damper(s), Add	3,321.01	
For Flat Filter Box And Throwaway Filters, Add	3,449.42	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,626.96	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,396.98	
For Manual Roll Filter, Add	17,385.81	
For Automatic Roll Filter, Add	17,385.81	
For Hot Water Heating Coil, Aluminum Fins, Add	3,902.57	
For Electric Heating Coil, Add	4,501.82	
For Chilled Water Cooling Coil, Aluminum Fins, Add	14,389.53	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	14,389.53	
For Chilled Water Cooling Coil, Copper Fins, Add	17,385.81	
For Direct Expansion Cooling Coil, Copper Fins, Add	17,385.81	
For 2 Coils, Independent Circuits, Add	4,501.82	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0074 EA 17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	43,837.06	6,575.95
For Economizer, Panel, Controls And Damper(s), Add	3,377.89	
For Flat Filter Box And Throwaway Filters, Add	3,914.31	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,546.98	
For Combination Filter Mixing Box And Throwaway Filters, Add	9,551.07	
For Manual Roll Filter, Add	19,885.80	
For Automatic Roll Filter, Add	19,885.80	
For Hot Water Heating Coil, Aluminum Fins, Add	4,383.71	
For Electric Heating Coil, Add	5,072.69	
For Chilled Water Cooling Coil, Aluminum Fins, Add	16,440.89	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	16,440.89	
For Chilled Water Cooling Coil, Copper Fins, Add	19,885.80	
For Direct Expansion Cooling Coil, Copper Fins, Add	19,885.80	
For 2 Coils, Independent Circuits, Add	5,072.69	
23 73 13 00-0075 EA 20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	49,107.52	7,129.72
For Economizer, Panel, Controls And Damper(s), Add	3,517.00	
For Flat Filter Box And Throwaway Filters, Add	4,401.61	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,551.50	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,749.46	
For Manual Roll Filter, Add	16,588.16	
For Automatic Roll Filter, Add	20,480.63	
For Hot Water Heating Coil, Aluminum Fins, Add	4,910.75	
For Electric Heating Coil, Add	5,689.25	
For Chilled Water Cooling Coil, Aluminum Fins, Add	16,588.16	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	16,588.16	
For Steam Heating Coil, Aluminum Fins, Add	8,803.22	
For Chilled Water Cooling Coil, Copper Fins, Add	20,480.63	
For Direct Expansion Cooling Coil, Copper Fins, Add	20,480.63	
For 2 Coils, Independent Circuits, Add	5,689.25	
23 73 13 00-0076 EA 22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	52,973.19	7,752.70
For Economizer, Panel, Controls And Damper(s), Add	3,417.19	
For Flat Filter Box And Throwaway Filters, Add	4,746.59	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,064.81	
For Combination Filter Mixing Box And Throwaway Filters, Add	11,591.11	
For Manual Roll Filter, Add	17,884.91	
For Automatic Roll Filter, Add	22,080.77	
For Hot Water Heating Coil, Aluminum Fins, Add	5,297.32	
For Electric Heating Coil, Add	6,136.49	
For Chilled Water Cooling Coil, Aluminum Fins, Add	17,884.91	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,884.91	
For Steam Heating Coil, Aluminum Fins, Add	9,493.18	
For Chilled Water Cooling Coil, Copper Fins, Add	22,080.77	
For Direct Expansion Cooling Coil, Copper Fins, Add	22,080.77	
For 2 Coils, Independent Circuits, Add	6,136.49	
23 73 13 00-0077 EA 25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	62,828.86	8,375.39
For Economizer, Panel, Controls And Damper(s), Add	3,559.32	
For Flat Filter Box And Throwaway Filters, Add	5,684.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,467.36	
For Combination Filter Mixing Box And Throwaway Filters, Add	13,912.90	
For Manual Roll Filter, Add	21,542.91	
For Automatic Roll Filter, Add	26,629.59	
For Hot Water Heating Coil, Aluminum Fins, Add	6,282.89	
For Electric Heating Coil, Add	7,300.22	
For Chilled Water Cooling Coil, Aluminum Fins, Add	21,542.91	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	21,542.91	
For Steam Heating Coil, Aluminum Fins, Add	11,369.56	
For Chilled Water Cooling Coil, Copper Fins, Add	26,629.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	26,629.59	
For 2 Coils, Independent Circuits, Add	7,300.22	
23 73 13 00-0078 EA 27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	70,838.64	9,067.89
For Economizer, Panel, Controls And Damper(s), Add	3,705.36	
For Flat Filter Box And Throwaway Filters, Add	6,437.08	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,590.94	
For Combination Filter Mixing Box And Throwaway Filters, Add	15,769.30	
For Manual Roll Filter, Add	24,454.73	
For Automatic Roll Filter, Add	30,245.02	
For Hot Water Heating Coil, Aluminum Fins, Add	7,083.86	
For Electric Heating Coil, Add	8,241.92	
For Chilled Water Cooling Coil, Aluminum Fins, Add	24,454.73	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	24,454.73	
For Steam Heating Coil, Aluminum Fins, Add	12,874.15	
For Chilled Water Cooling Coil, Copper Fins, Add	30,245.02	
For Direct Expansion Cooling Coil, Copper Fins, Add	30,245.02	
For 2 Coils, Independent Circuits, Add	8,241.92	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Indoor Central-Station Air-Handling Units

23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	76,758.36	9,760.39
For Economizer, Panel, Controls And Damper(s), Add	3,857.43	
For Flat Filter Box And Throwaway Filters, Add	6,978.36	
For Medium Capacity Filter Box And Throwaway Filters, Add	10,397.79	
For Combination Filter Mixing Box And Throwaway Filters, Add	17,097.16	
For Manual Roll Filter, Add	26,518.49	
For Automatic Roll Filter, Add	32,799.37	
For Hot Water Heating Coil, Aluminum Fins, Add	7,675.84	
For Electric Heating Coil, Add	8,932.01	
For Chilled Water Cooling Coil, Aluminum Fins, Add	26,518.49	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	26,518.49	
For Steam Heating Coil, Aluminum Fins, Add	13,956.72	
For Chilled Water Cooling Coil, Copper Fins, Add	32,799.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	32,799.37	
For 2 Coils, Independent Circuits, Add	8,932.01	
23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	86,015.81	11,421.10
For Economizer, Panel, Controls And Damper(s), Add	3,867.49	
For Flat Filter Box And Throwaway Filters, Add	7,786.58	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,598.38	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,058.96	
For Manual Roll Filter, Add	29,516.34	
For Automatic Roll Filter, Add	36,487.93	
For Hot Water Heating Coil, Aluminum Fins, Add	8,601.58	
For Electric Heating Coil, Add	9,995.90	
For Chilled Water Cooling Coil, Aluminum Fins, Add	29,516.34	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	29,516.34	
For Steam Heating Coil, Aluminum Fins, Add	15,573.17	
For Chilled Water Cooling Coil, Copper Fins, Add	36,487.93	
For Direct Expansion Cooling Coil, Copper Fins, Add	36,487.93	
For 2 Coils, Independent Circuits, Add	9,995.90	
23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	86,625.45	11,836.71
For Economizer, Panel, Controls And Damper(s), Add	3,943.70	
For Flat Filter Box And Throwaway Filters, Add	7,817.07	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,641.05	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,119.92	
For Manual Roll Filter, Add	29,577.30	
For Automatic Roll Filter, Add	36,548.89	
For Hot Water Heating Coil, Aluminum Fins, Add	8,662.55	
For Electric Heating Coil, Add	10,056.86	
For Chilled Water Cooling Coil, Aluminum Fins, Add	29,577.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	29,577.30	
For Steam Heating Coil, Aluminum Fins, Add	15,634.13	
For Chilled Water Cooling Coil, Copper Fins, Add	36,548.89	
For Direct Expansion Cooling Coil, Copper Fins, Add	36,548.89	
For 2 Coils, Independent Circuits, Add	10,056.86	
23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	90,548.75	12,251.64
For Economizer, Panel, Controls And Damper(s), Add	4,019.90	
For Flat Filter Box And Throwaway Filters, Add	8,178.91	
For Medium Capacity Filter Box And Throwaway Filters, Add	12,180.77	
For Combination Filter Mixing Box And Throwaway Filters, Add	20,009.30	
For Manual Roll Filter, Add	30,963.73	
For Automatic Roll Filter, Add	38,266.68	
For Hot Water Heating Coil, Aluminum Fins, Add	9,054.88	
For Electric Heating Coil, Add	10,515.47	
For Chilled Water Cooling Coil, Aluminum Fins, Add	30,963.73	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	30,963.73	
For Steam Heating Coil, Aluminum Fins, Add	16,357.83	
For Chilled Water Cooling Coil, Copper Fins, Add	38,266.68	
For Direct Expansion Cooling Coil, Copper Fins, Add	38,266.68	
For 2 Coils, Independent Circuits, Add	10,515.47	
23 73 13 00-0083 EA 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	94,882.36	13,151.90
For Economizer, Panel, Controls And Damper(s), Add	4,176.99	
For Flat Filter Box And Throwaway Filters, Add	8,549.44	
For Medium Capacity Filter Box And Throwaway Filters, Add	12,730.28	
For Combination Filter Mixing Box And Throwaway Filters, Add	20,904.21	
For Manual Roll Filter, Add	32,320.18	
For Automatic Roll Filter, Add	39,930.83	
For Hot Water Heating Coil, Aluminum Fins, Add	9,488.24	
For Electric Heating Coil, Add	11,010.37	
For Chilled Water Cooling Coil, Aluminum Fins, Add	32,320.18	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	32,320.18	
For Steam Heating Coil, Aluminum Fins, Add	17,098.88	
For Chilled Water Cooling Coil, Copper Fins, Add	39,930.83	
For Direct Expansion Cooling Coil, Copper Fins, Add	39,930.83	
For 2 Coils, Independent Circuits, Add	11,010.37	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0084 EA 45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	102,079.31	13,844.11
For Economizer, Panel, Controls And Damper(s), Add	4,291.22	
For Flat Filter Box And Throwaway Filters, Add	9,223.44	
For Medium Capacity Filter Box And Throwaway Filters, Add	13,736.71	
For Combination Filter Mixing Box And Throwaway Filters, Add	22,566.36	
For Manual Roll Filter, Add	34,924.79	
For Automatic Roll Filter, Add	43,163.74	
For Hot Water Heating Coil, Aluminum Fins, Add	10,207.93	
For Electric Heating Coil, Add	11,855.72	
For Chilled Water Cooling Coil, Aluminum Fins, Add	34,924.79	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	34,924.79	
For Steam Heating Coil, Aluminum Fins, Add	18,446.88	
For Chilled Water Cooling Coil, Copper Fins, Add	43,163.74	
For Direct Expansion Cooling Coil, Copper Fins, Add	43,163.74	
For 2 Coils, Independent Circuits, Add	11,855.72	
23 73 13 00-0085 EA 50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	109,650.17	14,605.53
For Economizer, Panel, Controls And Damper(s), Add	3,989.16	
For Flat Filter Box And Throwaway Filters, Add	9,920.44	
For Medium Capacity Filter Box And Throwaway Filters, Add	14,776.20	
For Combination Filter Mixing Box And Throwaway Filters, Add	24,278.81	
For Manual Roll Filter, Add	37,592.60	
For Automatic Roll Filter, Add	46,468.47	
For Hot Water Heating Coil, Aluminum Fins, Add	10,965.02	
For Electric Heating Coil, Add	12,740.19	
For Chilled Water Cooling Coil, Aluminum Fins, Add	37,592.60	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	37,592.60	
For Steam Heating Coil, Aluminum Fins, Add	19,840.88	
For Chilled Water Cooling Coil, Copper Fins, Add	46,468.47	
For Direct Expansion Cooling Coil, Copper Fins, Add	46,468.47	
For 2 Coils, Independent Circuits, Add	12,740.19	
23 73 13 00-0086 EA 55,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	117,998.12	15,505.41
For Economizer, Panel, Controls And Damper(s), Add	4,113.88	
For Flat Filter Box And Throwaway Filters, Add	10,692.87	
For Medium Capacity Filter Box And Throwaway Filters, Add	15,928.61	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,178.71	
For Manual Roll Filter, Add	40,557.61	
For Automatic Roll Filter, Add	50,143.54	
For Hot Water Heating Coil, Aluminum Fins, Add	11,799.81	
For Electric Heating Coil, Add	13,717.00	
For Chilled Water Cooling Coil, Aluminum Fins, Add	40,557.61	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	40,557.61	
For Steam Heating Coil, Aluminum Fins, Add	21,385.74	
For Chilled Water Cooling Coil, Copper Fins, Add	50,143.54	
For Direct Expansion Cooling Coil, Copper Fins, Add	50,143.54	
For 2 Coils, Independent Circuits, Add	13,717.00	
23 73 13 00-0087 EA 60,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	126,244.52	15,920.73
For Economizer, Panel, Controls And Damper(s), Add	4,170.36	
For Flat Filter Box And Throwaway Filters, Add	11,489.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,120.39	
For Combination Filter Mixing Box And Throwaway Filters, Add	28,155.60	
For Manual Roll Filter, Add	43,686.74	
For Automatic Roll Filter, Add	54,040.84	
For Hot Water Heating Coil, Aluminum Fins, Add	12,624.45	
For Electric Heating Coil, Add	14,695.27	
For Chilled Water Cooling Coil, Aluminum Fins, Add	43,686.74	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	43,686.74	
For Steam Heating Coil, Aluminum Fins, Add	22,978.55	
For Chilled Water Cooling Coil, Copper Fins, Add	54,040.84	
For Direct Expansion Cooling Coil, Copper Fins, Add	54,040.84	
For 2 Coils, Independent Circuits, Add	14,695.27	
23 73 13 00-0088 Return/Supply Air Fan (23 73 13)		
Note: Includes vibration mounts.		
23 73 13 00-0089 EA 300 CFM Return Air Fan.....	2,264.42	553.66
23 73 13 00-0090 EA 500 CFM Return Air Fan.....	2,912.32	664.41
23 73 13 00-0091 EA 750 CFM Return Air Fan.....	3,041.13	692.11
23 73 13 00-0092 EA 1,000 CFM Return Air Fan.....	3,446.07	733.64
23 73 13 00-0093 EA 1,250 CFM Return Air Fan.....	3,556.46	768.25
23 73 13 00-0094 EA 1,500 CFM Return Air Fan.....	3,646.43	802.86
23 73 13 00-0095 EA 1,750 CFM Return Air Fan.....	3,827.82	844.39
23 73 13 00-0096 EA 2,000 CFM Return Air Fan.....	4,232.74	885.92
23 73 13 00-0097 EA 2,250 CFM Return Air Fan.....	4,434.35	927.46
23 73 13 00-0098 EA 2,500 CFM Return Air Fan.....	4,554.69	968.99
23 73 13 00-0099 EA 3,000 CFM Return Air Fan.....	4,844.99	1,072.82
23 73 13 00-0100 EA 3,500 CFM Return Air Fan.....	4,985.28	1,128.19
23 73 13 00-0101 EA 4,000 CFM Return Air Fan.....	5,115.42	1,176.65
23 73 13 00-0102 EA 4,500 CFM Return Air Fan.....	5,276.01	1,232.13
23 73 13 00-0103 EA 5,000 CFM Return Air Fan.....	5,425.85	1,294.43
23 73 13 00-0104 EA 5,500 CFM Return Air Fan.....	5,724.52	1,446.71
23 73 13 00-0105 EA 6,000 CFM Return Air Fan.....	6,536.93	1,716.67
23 73 13 00-0106 EA 6,500 CFM Return Air Fan.....	6,699.03	1,744.35
23 73 13 00-0107 EA 7,000 CFM Return Air Fan.....	6,769.46	1,751.28
23 73 13 00-0108 EA 8,000 CFM Return Air Fan.....	7,094.16	1,778.97
23 73 13 00-0109 EA 9,000 CFM Return Air Fan.....	7,242.50	1,799.74
23 73 13 00-0110 EA 10,000 CFM Return Air Fan.....	7,609.01	1,869.25



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
Central HVAC Equipment		23 70	
Indoor Central-Station Air-Handling Units		23 73	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0111 EA 12,500 CFM Return Air Fan.....	8,063.16	1,903.47
23 73 13 00-0112 EA 15,000 CFM Return Air Fan.....	9,015.83	1,957.55
23 73 13 00-0113 EA 17,500 CFM Return Air Fan.....	9,795.90	2,062.68
23 73 13 00-0114 EA 20,000 CFM Return Air Fan.....	11,509.35	2,152.46
23 73 13 00-0115 EA 22,500 CFM Return Air Fan.....	12,050.20	2,227.51
23 73 13 00-0116 EA 25,000 CFM Return Air Fan.....	12,576.37	2,291.20
23 73 13 00-0117 EA 27,500 CFM Return Air Fan.....	13,373.95	2,519.63
23 73 13 00-0118 EA 30,000 CFM Return Air Fan.....	14,282.10	2,657.87
23 73 13 00-0119 EA 35,000 CFM Return Air Fan.....	16,006.31	2,768.53
23 73 13 00-0120 EA 40,000 CFM Return Air Fan.....	18,759.62	3,045.41
23 73 13 00-0121 EA 45,000 CFM Return Air Fan.....	22,949.48	3,460.73
23 73 13 00-0122 EA 50,000 CFM Return Air Fan.....	27,640.25	3,585.63
23 73 13 00-0123 EA 55,000 CFM Return Air Fan.....	28,901.23	3,689.16
23 73 13 00-0124 EA 60,000 CFM Return Air Fan.....	29,573.70	3,786.07
23 73 13 00-0125 EA 65,000 CFM Return Air Fan.....	31,004.26	3,952.09
23 73 13 00-0126 EA 70,000 CFM Return Air Fan.....	32,563.28	4,146.71
23 73 13 00-0127 EA 75,000 CFM Return Air Fan.....	34,974.67	4,350.11
23 73 13 00-0128 EA 80,000 CFM Return Air Fan.....	36,543.81	4,580.72
23 73 13 00-0129 EA 90,000 CFM Return Air Fan.....	37,784.01	4,841.58
23 73 13 00-0130 EA 100,000 CFM Return Air Fan.....	40,559.01	5,063.18
23 73 13 00-0131 EA 115,000 CFM Return Air Fan.....	43,567.49	5,305.36
23 73 13 00-0132 EA 130,000 CFM Return Air Fan.....	46,834.35	5,572.65
23 73 13 00-0133 EA 150,000 CFM Return Air Fan.....	51,137.36	5,869.51

23 73 13 00-0134 Removal And Reinstallation Of Air Handling Unit (23 73 13)
Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

23 73 13 00-0135 EA Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit.....	2,535.55
23 73 13 00-0136 EA Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit	3,439.53
23 73 13 00-0137 EA Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit	4,278.74
23 73 13 00-0138 EA Removal And Reinstallation Of >22,000 CFM Air Handling Unit	7,806.84

23 74 Packaged Outdoor HVAC Equipment (23 70)

23 74 13 Packaged, Outdoor, Central-Station Air-Handling Units (23 74)

Note: Includes throwaway filters, filter rack, and manual outside air damper. Units are shipped fully factory assembled in one piece, prewired, charged with refrigerant, and include start-up. Excludes crane and associated personnel.

23 74 13 00-0001 Electric Cooling, Electric Heat, Packaged, Outdoor, Central-Station Air-Handling Units (23 74 13)

23 74 13 00-0002 Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Unit (23 74 13)

Note: Units up to 5 tons have 13 SEER. Units >5 to 11 tons have 10.3 EER, >11 to 19 tons have 9.7 EER, >19 to 63 tons have 9.5 EER and >63 tons have 9.2 EER. Excludes crane and associated personnel. See CSI section 26 28 16 00-0001 for disconnects.

23 74 13 00-0003 EA 2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	2,995.82	362.78
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-340.54
For Unit Economizer, Add		
		344.99
For Equipment Base Roof Curbs, Add		
		242.83
23 74 13 00-0004 EA 3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	4,369.35	487.16
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-510.81
For Unit Economizer, Add		
		505.04
For Equipment Base Roof Curbs, Add		
		351.80
23 74 13 00-0005 EA 4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	5,410.49	559.72
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-643.66
For Unit Economizer, Add		
		626.87
For Equipment Base Roof Curbs, Add		
		433.77
23 74 13 00-0006 EA 5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	6,576.54	601.18
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-804.57
For Unit Economizer, Add		
		764.93
For Equipment Base Roof Curbs, Add		
		523.56
23 74 13 00-0007 EA 7-1/2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	8,946.15	684.10
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-1,136.69
For Unit Economizer, Add		
		1,046.17
For Equipment Base Roof Curbs, Add		
		705.17
23 74 13 00-0008 EA 10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	13,151.29	767.02
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-1,515.59
For Unit Economizer, Add		
		1,517.21
For Equipment Base Roof Curbs, Add		
		1,062.53
23 74 13 00-0009 EA 12-1/2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	15,853.46	808.48
Note: Electric load approximately 1/2 the cooling capacity.		
For Unit Without Heat, Deduct		
		-1,894.49
For Unit Economizer, Add		
		1,837.94
For Equipment Base Roof Curbs, Add		
		1,269.60

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0010 EA 15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	18,721.51 -2,273.39 2,175.27 1,493.25	891.40
23 74 13 00-0011 EA 20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	23,033.96 -2,844.07 2,682.61 1,829.38	1,015.78
23 74 13 00-0012 EA 25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	28,613.66 -3,555.09 3,335.38 2,268.85	1,233.45
23 74 13 00-0013 EA 30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	34,203.72 -4,266.11 3,989.19 2,709.35	1,440.75
23 74 13 00-0014 EA 35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	39,959.62 -4,977.13 4,659.58 3,166.44	1,699.88
23 74 13 00-0015 EA 40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	43,137.80 -5,313.92 5,022.30 3,428.13	1,927.91
23 74 13 00-0016 EA 50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	52,761.36 -6,642.41 6,161.79 4,169.07	2,124.85
23 74 13 00-0017 EA 60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	60,324.02 -7,521.82 7,035.31 4,778.77	2,539.45
23 74 13 00-0018 EA 70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	69,697.38 -8,775.46 8,139.80 5,507.16	2,798.58
23 74 13 00-0019 EA 75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit Note: Electric load approximately 1/2 the cooling capacity. For Unit Without Heat, Deduct For Unit Economizer, Add For Equipment Base Roof Curbs, Add	74,238.05 -9,355.50 8,671.21 5,864.56	2,964.42
23 74 13 00-0020 Electric Cooling, Gas Heat, Packaged, Outdoor, Central-Station Air- Handling Units (23 74 13)		
23 74 13 00-0021 Electric Cooling, Gas Heat, Self Contained Package Rooftop Unit (23 74 13 00-0020) Note: Units up to 5 tons have 13 SEER. Units >5 to 11 tons have 11.2 EER, >11 to 20 tons have 11 EER, >20 to 63 tons have 10 EER and >63 tons have 9.7 EER. Excludes crane and associated personnel.		
23 74 13 00-0022 EA 2 Ton Electric Cooling, 60 MBH Gas Heating, Self Contained Package Rooftop Unit For Hot Water Heating Coil Instead Of Gas, Deduct For Steam Heating Coil Instead Of Gas, Deduct For Unit Economizer, Add For Equipment Base Roof Curb, Add	3,522.40 -156.94 -62.78 415.02 273.77	186.57
23 74 13 00-0023 EA 3 Ton Electric Cooling, 60 MBH Gas Heating, Self Contained Package Rooftop Unit For Hot Water Heating Coil Instead Of Gas, Deduct For Steam Heating Coil Instead Of Gas, Deduct For Unit Economizer, Add For Equipment Base Roof Curb, Add	3,444.33 -150.45 -60.18 404.61 269.21	217.67
23 74 13 00-0024 EA 4 Ton Electric Cooling, 80 MBH Gas Heating, Self Contained Package Rooftop Unit For Hot Water Heating Coil Instead Of Gas, Deduct For Steam Heating Coil Instead Of Gas, Deduct For Unit Economizer, Add For Equipment Base Roof Curb, Add	4,011.69 -178.30 -71.32 472.49 312.02	228.03
23 74 13 00-0025 EA 5 Ton Electric Cooling, 100 MBH Gas Heating, Self Contained Package Rooftop Unit For Hot Water Heating Coil Instead Of Gas, Deduct For Steam Heating Coil Instead Of Gas, Deduct For Unit Economizer, Add For Equipment Base Roof Curb, Add	4,541.72 -199.10 -79.64 533.81 354.62	279.86
23 74 13 00-0026 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit For Hot Water Heating Coil Instead Of Gas, Deduct For Steam Heating Coil Instead Of Gas, Deduct For Unit Economizer, Add For Equipment Base Roof Curb, Add	5,227.18 -231.30 -92.52 615.24 407.07	300.58



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
Central HVAC Equipment		23 70	
Packaged Outdoor HVAC Equipment		23 74	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0027	EA	7.5 Ton Electric Cooling, 150 MBH Gas Heating, Self Contained Package Rooftop Unit.....	6,628.64	321.32
		For Hot Water Heating Coil Instead Of Gas, Deduct	-299.30	
		For Steam Heating Coil Instead Of Gas, Deduct	-119.72	
		For Unit Economizer, Add	782.58	
		For Equipment Base Roof Curb, Add	513.21	
23 74 13 00-0028	EA	8.5 Ton Electric Cooling, 150 MBH Gas Heating, Self Contained Package Rooftop Unit.....	7,367.37	331.68
		For Hot Water Heating Coil Instead Of Gas, Deduct	-335.20	
		For Steam Heating Coil Instead Of Gas, Deduct	-134.08	
		For Unit Economizer, Add	870.82	
		For Equipment Base Roof Curb, Add	569.14	
23 74 13 00-0029	EA	10 Ton Electric Cooling, 200 MBH Gas Heating, Self Contained Package Rooftop Unit.....	7,801.98	342.05
		For Hot Water Heating Coil Instead Of Gas, Deduct	-356.41	
		For Steam Heating Coil Instead Of Gas, Deduct	-142.57	
		For Unit Economizer, Add	922.76	
		For Equipment Base Roof Curb, Add	601.99	
23 74 13 00-0030	EA	12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit.....	10,381.66	424.97
		For Hot Water Heating Coil Instead Of Gas, Deduct	-476.59	
		For Steam Heating Coil Instead Of Gas, Deduct	-190.63	
		For Unit Economizer, Add	1,228.80	
		For Equipment Base Roof Curb, Add	799.87	
23 74 13 00-0031	EA	15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit.....	12,889.34	507.89
		For Hot Water Heating Coil Instead Of Gas, Deduct	-593.68	
		For Steam Heating Coil Instead Of Gas, Deduct	-237.47	
		For Unit Economizer, Add	1,526.41	
		For Equipment Base Roof Curb, Add	992.10	
23 74 13 00-0032	EA	18 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit.....	15,345.58	590.82
		For Hot Water Heating Coil Instead Of Gas, Deduct	-708.72	
		For Steam Heating Coil Instead Of Gas, Deduct	-283.49	
		For Unit Economizer, Add	1,818.04	
		For Equipment Base Roof Curb, Add	1,180.20	
23 74 13 00-0033	EA	20 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit.....	17,820.40	663.37
		For Hot Water Heating Coil Instead Of Gas, Deduct	-824.17	
		For Steam Heating Coil Instead Of Gas, Deduct	-329.67	
		For Unit Economizer, Add	2,111.71	
		For Equipment Base Roof Curb, Add	1,369.96	
23 74 13 00-0034	EA	25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit.....	18,392.72	849.94
		For Hot Water Heating Coil Instead Of Gas, Deduct	-834.64	
		For Steam Heating Coil Instead Of Gas, Deduct	-333.86	
		For Unit Economizer, Add	2,173.13	
		For Equipment Base Roof Curb, Add	1,421.95	
23 74 13 00-0035	EA	30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit.....	19,254.77	1,036.51
		For Hot Water Heating Coil Instead Of Gas, Deduct	-859.09	
		For Steam Heating Coil Instead Of Gas, Deduct	-343.64	
		For Unit Economizer, Add	2,269.11	
		For Equipment Base Roof Curb, Add	1,495.93	
23 74 13 00-0036	EA	40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit.....	26,294.24	1,243.81
		For Hot Water Heating Coil Instead Of Gas, Deduct	-1,190.85	
		For Steam Heating Coil Instead Of Gas, Deduct	-476.34	
		For Unit Economizer, Add	3,105.76	
		For Equipment Base Roof Curb, Add	2,034.00	
23 74 13 00-0037	EA	50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit.....	32,374.38	1,554.77
		For Hot Water Heating Coil Instead Of Gas, Deduct	-1,463.24	
		For Steam Heating Coil Instead Of Gas, Deduct	-585.30	
		For Unit Economizer, Add	3,822.74	
		For Equipment Base Roof Curb, Add	2,505.82	
23 74 13 00-0038	EA	60 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit.....	37,602.83	1,689.51
		For Hot Water Heating Coil Instead Of Gas, Deduct	-1,711.19	
		For Steam Heating Coil Instead Of Gas, Deduct	-684.48	
		For Unit Economizer, Add	4,444.76	
		For Equipment Base Roof Curb, Add	2,904.69	
23 74 13 00-0039	EA	80 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit.....	53,518.11	2,031.56
		For Hot Water Heating Coil Instead Of Gas, Deduct	-2,473.27	
		For Steam Heating Coil Instead Of Gas, Deduct	-989.31	
		For Unit Economizer, Add	6,341.12	
		For Equipment Base Roof Curb, Add	4,115.18	
23 74 13 00-0040	EA	90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit.....	62,630.76	2,124.85
		For Hot Water Heating Coil Instead Of Gas, Deduct	-2,919.57	
		For Steam Heating Coil Instead Of Gas, Deduct	-1,167.83	
		For Unit Economizer, Add	7,430.90	
		For Equipment Base Roof Curb, Add	4,803.29	
23 74 13 00-0041	EA	100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit.....	67,444.39	2,332.15
		For Hot Water Heating Coil Instead Of Gas, Deduct	-3,139.00	
		For Steam Heating Coil Instead Of Gas, Deduct	-1,255.60	
		For Unit Economizer, Add	8,000.04	
		For Equipment Base Roof Curb, Add	5,174.94	
23 74 13 00-0042		Gas Cooling, Gas Heat, Self Contained Package Rooftop Unit (23 74 13)		
		Note: Units up to 5 tons have 13 SEER. Units > 5 to 11 tons have 10.1 EER, >11 to 19 tons have 9.5 EER, >19 to 63 tons have 9.3 EER and >63 tons have 9.0 EER. Excludes crane and associated personnel.		
23 74 13 00-0043	EA	2 Ton Gas Cooling, 80 MBH Gas Heating, Self Contained Package Rooftop Unit.....	4,134.41	279.86
		For Unit Economizer, Add	488.46	
		For Equipment Base Roof Curb, Add	319.67	
23 74 13 00-0044	EA	3 Ton Gas Cooling, 90 MBH Gas Heating, Self Contained Package Rooftop Unit.....	4,458.13	321.32
		For Unit Economizer, Add	526.27	
		For Equipment Base Roof Curb, Add	345.24	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0045 EA 4 Ton Gas Cooling, 110 MBH Gas Heating, Self Contained Package Rooftop Unit	4,832.45	331.68
For Unit Economizer, Add	570.98	
For Equipment Base Roof Curb, Add	373.58	
23 74 13 00-0046 EA 5 Ton Gas Cooling, 112 MBH Gas Heating, Self Contained Package Rooftop Unit	5,383.23	414.61
For Unit Economizer, Add	634.79	
For Equipment Base Roof Curb, Add	417.74	
23 74 13 00-0047 EA 6 Ton Gas Cooling, 150 MBH Gas Heating, Self Contained Package Rooftop Unit	7,602.38	445.69
For Unit Economizer, Add	900.26	
For Equipment Base Roof Curb, Add	585.21	
23 74 13 00-0048 EA 7.5 Ton Gas Cooling, 200 MBH Gas Heating, Self Contained Package Rooftop Unit	9,820.80	476.79
For Unit Economizer, Add	1,165.64	
For Equipment Base Roof Curb, Add	752.63	
23 74 13 00-0049 EA 10 Ton Gas Cooling, 270 MBH Gas Heating, Self Contained Package Rooftop Unit	13,692.71	507.89
For Unit Economizer, Add	1,629.65	
For Equipment Base Roof Curb, Add	1,043.80	
23 74 13 00-0050 EA 12.5 Ton Gas Cooling, 335 MBH Gas Heating, Self Contained Package Rooftop Unit	15,743.64	632.27
For Unit Economizer, Add	1,872.24	
For Equipment Base Roof Curb, Add	1,202.02	
23 74 13 00-0051 EA 15 Ton Gas Cooling, 375 MBH Gas Heating, Self Contained Package Rooftop Unit	17,781.38	756.65
For Unit Economizer, Add	2,113.45	
For Equipment Base Roof Curb, Add	1,359.00	
23 74 13 00-0052 EA 18 Ton Gas Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit	23,150.71	881.04
For Unit Economizer, Add	2,754.66	
For Equipment Base Roof Curb, Add	1,765.58	
23 74 13 00-0053 EA 20 Ton Gas Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit	28,526.88	995.05
For Unit Economizer, Add	3,396.48	
For Equipment Base Roof Curb, Add	2,172.94	
23 74 13 00-0054 EA 25 Ton Gas Cooling, 525 MBH Gas Heating, Self Contained Package Rooftop Unit	34,070.70	1,274.91
For Unit Economizer, Add	4,054.49	
For Equipment Base Roof Curb, Add	2,597.80	
23 74 13 00-0055 EA 30 Ton Gas Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit	40,352.80	1,554.77
For Unit Economizer, Add	4,800.88	
For Equipment Base Roof Curb, Add	3,078.29	
23 74 13 00-0056 EA 40 Ton Gas Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit	52,318.06	1,855.35
For Unit Economizer, Add	6,228.62	
For Equipment Base Roof Curb, Add	3,985.79	
23 74 13 00-0057 EA 50 Ton Gas Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit	63,654.96	2,332.15
For Unit Economizer, Add	7,576.40	
For Equipment Base Roof Curb, Add	4,851.86	
23 74 13 00-0058 EA 60 Ton Gas Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit	71,888.71	2,539.45
For Unit Economizer, Add	8,559.06	
For Equipment Base Roof Curb, Add	5,476.13	
23 74 13 00-0059 EA 80 Ton Gas Cooling, 1,300 MBH Gas Heating, Self Contained Package Rooftop Unit	117,950.09	3,036.97
For Unit Economizer, Add	14,072.96	
For Equipment Base Roof Curb, Add	8,947.58	
23 74 13 00-0060 EA 90 Ton Gas Cooling, 1,500 MBH Gas Heating, Self Contained Package Rooftop Unit	138,689.57	3,182.09
For Unit Economizer, Add	16,557.96	
For Equipment Base Roof Curb, Add	10,507.70	
23 74 13 00-0061 EA 100 Ton Gas Cooling, 1,700 MBH Gas Heating, Self Contained Package Rooftop Unit	149,219.71	3,493.04
For Unit Economizer, Add	17,813.08	
For Equipment Base Roof Curb, Add	11,308.09	
23 74 13 00-0062 Heat Pump, Packaged, Outdoor, Central-Station Air-Handling Units (23 74 13)		
Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.		
23 74 13 00-0063 Packaged Rooftop Heat Pump Units (23 74 13 00-0062)		
Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.		
23 74 13 00-0064 EA 2 Ton Packaged Rooftop Heat Pump	4,634.43	424.97
For Economizer With Outside Air Control, Add	1,219.71	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	189.22	
23 74 13 00-0065 EA 2.5 Ton Packaged Rooftop Heat Pump	4,852.61	445.69
For Economizer With Outside Air Control, Add	1,280.56	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	197.54	
23 74 13 00-0066 EA 3 Ton Packaged Rooftop Heat Pump	5,122.73	487.16
For Economizer With Outside Air Control, Add	1,355.32	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	207.94	
23 74 13 00-0067 EA 3.5 Ton Packaged Rooftop Heat Pump	5,504.50	518.26
For Economizer With Outside Air Control, Add	1,281.23	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	222.88	
23 74 13 00-0068 EA 4 Ton Packaged Rooftop Heat Pump	5,875.90	559.72
For Economizer With Outside Air Control, Add	1,368.31	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	237.82	
23 74 13 00-0069 EA 5 Ton Packaged Rooftop Heat Pump	6,303.25	601.18
For Economizer With Outside Air Control, Add	1,471.75	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	203.62	
23 74 13 00-0070 EA 6 Ton Packaged Rooftop Heat Pump	7,113.31	642.64
For Economizer With Outside Air Control, Add	1,633.40	
For Economizer With Outside Air Control, Add	1,283.72	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	174.84	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Packaged Outdoor HVAC Equipment

23 74**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0071 EA 7.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	9,411.97 1,645.41 1,564.87 241.62	673.73
23 74 13 00-0072 EA 8.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	10,550.98 1,722.50 273.31	725.55
23 74 13 00-0073 EA 10 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	11,423.51 1,751.82 198.00	767.02
23 74 13 00-0074 EA 12.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	13,396.46 2,019.60 233.93	849.94
23 74 13 00-0075 EA 15 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	15,359.04 2,282.19 269.87	932.86
23 74 13 00-0076 EA 17.5 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	17,134.48 2,459.74 305.38	974.32
23 74 13 00-0077 EA 20 Ton Packaged Rooftop Heat Pump For Economizer With Outside Air Control, Add For Upgrade Of Economizer To OS Air Enthalpy Control, Add	19,075.76 2,720.20 340.88	1,015.78
23 74 13 00-0078 AAON Rooftop Units (23 74 13) Note: The minimum EER for units 5 to 10 tons is 11.2, >10 to 20 tons is 11.0, and >20 is 10.0. See CSI section 26 28 16 00-0001 for disconnects.		
23 74 13 00-0079 AAON RQ Rooftop Units (23 74 13 00-0078) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 13 00-0080 EA 2 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-002) For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	5,533.33 646.84 701.78 552.51 632.33 3,223.83 752.57	207.30
23 74 13 00-0081 EA 3 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-003) For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	5,958.33 693.49 752.57 591.90 677.94 3,223.83 752.57	217.67
23 74 13 00-0082 EA 4 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-004) For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	6,071.33 693.49 752.57 591.90 677.94 3,223.83 752.57	228.03
23 74 13 00-0083 EA 5 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-005) For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	6,173.95 693.49 752.57 591.90 677.94 3,223.83 752.57	248.76
23 74 13 00-0084 EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-006) For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	6,749.26 693.49 752.57 591.90 677.94 3,223.83 752.57	259.13
23 74 13 00-0085 AAON RNA Rooftop Units (23 74 13 00-0078) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 13 00-0086 EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-006) For Factory Installed And Wired Dry Bulb Economizer, Add For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add For Factory Authorized Start Up, 4 Hour, One Trip, Add For Factory Installed Non-Fused Disconnect, Add For Factory Installed Exhaust Fan, Add For Hot Water Coil In Lieu Of Gas Heat, Add	8,388.12 674.83 1,036.60 691.41 638.55 1,721.79 586.72	269.50

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0087 EA 7 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-007)	8,988.31	290.22
For Factory Installed And Wired Dry Bulb Economizer, Add	674.83	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,036.60	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	691.41	
For Factory Installed Non-Fused Disconnect, Add	638.55	
For Factory Installed Exhaust Fan, Add	1,721.79	
For Hot Water Coil In Lieu Of Gas Heat, Add	586.72	
23 74 13 00-0088 EA 8 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-008)	10,385.64	310.96
For Factory Installed And Wired Dry Bulb Economizer, Add	674.83	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,036.60	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	691.41	
For Factory Installed Non-Fused Disconnect, Add	638.55	
For Factory Installed Exhaust Fan, Add	1,721.79	
For Hot Water Coil In Lieu Of Gas Heat, Add	586.72	
23 74 13 00-0089 EA 10 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-010)	10,502.77	342.05
For Factory Installed And Wired Dry Bulb Economizer, Add	674.83	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,036.60	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	691.41	
For Factory Installed Non-Fused Disconnect, Add	638.55	
For Factory Installed Exhaust Fan, Add	1,721.79	
For Hot Water Coil In Lieu Of Gas Heat, Add	586.72	
23 74 13 00-0090 AAON RNB Rooftop Units (23 74 13 00-0078)		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 13 00-0091 EA 9 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-009)	12,653.72	342.05
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	994.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	777.45	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	1,641.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	589.83	
23 74 13 00-0092 EA 11 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-011)	12,899.39	383.51
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	994.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	777.45	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	1,641.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	589.83	
23 74 13 00-0093 EA 13 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-013)	14,037.57	424.97
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	994.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	777.45	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	1,641.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	589.83	
23 74 13 00-0094 EA 15 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-015)	14,360.98	466.43
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	994.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	777.45	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	1,641.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	589.83	
23 74 13 00-0095 AAON RNC Rooftop Units (23 74 13 00-0078)		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 13 00-0096 EA 16 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-016)	18,892.98	507.89
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,467.83	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,036.60	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	3,011.32	
For Hot Water Coil In Lieu Of Gas Heat, Add	268.48	
23 74 13 00-0097 EA 18 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-018)	20,429.22	549.35
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,467.83	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,036.60	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	3,011.32	
For Hot Water Coil In Lieu Of Gas Heat, Add	268.48	
23 74 13 00-0098 EA 20 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-020)	21,659.65	590.82
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,467.83	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,036.60	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	3,011.32	
For Hot Water Coil In Lieu Of Gas Heat, Add	268.48	
23 74 13 00-0099 EA 25 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-025)	23,211.43	673.73
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,467.83	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,036.60	
For Factory Installed Non-Fused Disconnect, Add	616.78	
For Factory Installed Exhaust Fan, Add	3,011.32	
For Hot Water Coil In Lieu Of Gas Heat, Add	268.48	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Packaged Outdoor HVAC Equipment

23 74**23**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0100	EA	30 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-030)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	26,202.01 1,467.83 1,036.60 616.78 3,011.32 268.48	767.02
23 74 13 00-0101		AAON RND Rooftop Units (23 74 13 00-0078) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect, freight and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 13 00-0102	EA	26 Ton, Air Cooled Packaged Rooftop Units (AAON RND-026)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	36,331.65 1,295.75 1,403.56 1,969.54	849.94
23 74 13 00-0103	EA	31 Ton, Air Cooled Packaged Rooftop Units (AAON RND-031)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	41,235.79 1,295.75 1,403.56 1,969.54	932.86
23 74 13 00-0104	EA	40 Ton, Air Cooled Packaged Rooftop Units (AAON RND-040)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	47,993.36 1,295.75 1,403.56 1,969.54	1,057.24
23 74 13 00-0105	EA	50 Ton, Air Cooled Packaged Rooftop Units (AAON RND-050)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	55,819.67 1,295.75 1,403.56 1,969.54	1,191.98
23 74 13 00-0106	EA	60 Ton, Air Cooled Packaged Rooftop Units (AAON RND-060)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	60,779.78 1,295.75 1,403.56 1,969.54	1,316.37
23 74 13 00-0107	EA	70 Ton, Air Cooled Packaged Rooftop Units (AAON RND-070)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	63,876.08 1,295.75 1,403.56 1,969.54	1,440.75
23 74 13 00-0108		AAON RNE Rooftop Units (23 74 13 00-0078) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non fused disconnect, freight and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 13 00-0109	EA	55 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-055)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	60,089.34 1,463.68 2,102.22 2,798.82	1,606.59
23 74 13 00-0110	EA	65 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-065)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	65,992.76 1,463.68 2,102.22 2,798.82	1,782.80
23 74 13 00-0111	EA	75 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-075)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	70,169.19 1,463.68 2,102.22 2,798.82	1,948.64
23 74 13 00-0112	EA	95 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-090)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	83,400.33 1,463.68 2,102.22 2,798.82	2,124.85
23 74 13 00-0113	EA	105 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-105)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	89,834.47 1,463.68 2,102.22 2,798.82	2,332.15
23 74 13 00-0114	EA	120 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-120)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	105,138.79 1,463.68 2,102.22 2,798.82	2,539.45
23 74 13 00-0115	EA	130 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-130)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	107,561.29 1,463.68 2,102.22 2,798.82	2,757.12
23 74 13 00-0116	EA	140 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-140)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	111,965.77 1,463.68 2,102.22 2,798.82	2,964.42
23 74 13 00-0117		Heating Only Packaged Rooftop Units (23 74 13) Note: Includes throwaway filters and filter rack. Manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 13 00-0118 EA 24 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	2,292.64 147.63	321.32
23 74 13 00-0119 EA 32 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	2,701.29 174.16	373.14
23 74 13 00-0120 EA 45 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	3,607.02 237.15	383.51
23 74 13 00-0121 EA 60 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	4,213.95 275.70	487.16
23 74 13 00-0122 EA 95 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	4,979.43 326.17	559.72
23 74 13 00-0123 EA 112 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	5,612.72 368.64	601.18
23 74 13 00-0124 EA 140 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	6,650.91 440.07	653.00
23 74 13 00-0125 EA 170 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	8,497.83 567.69	673.73
23 74 13 00-0126 EA 200 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	11,298.67 760.43	767.02
23 74 13 00-0127 EA 230 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	13,259.88 894.19	849.94
23 74 13 00-0128 EA 270 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	17,415.02 1,177.59	1,036.51
23 74 13 00-0129 EA 330 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	21,772.27 1,474.51	1,243.81
23 74 13 00-0130 EA 360 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	27,164.53 1,839.33	1,554.77
23 74 13 00-0131 EA 450 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	32,789.03 2,227.65	1,699.88
23 74 13 00-0132 EA 540 MBH Electric Heating Only Self Contained Package Rooftop Unit For Gas Heat, Add	42,217.76 2,874.19	2,031.56

23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)**23 74 23 00-0001 Make-Up Air Units (23 74 23)**

Note: Including throwaway filters. Units are shipped fully factory assembled in one piece, prewired, prepiped, charged with refrigerant, and include start-up. Excludes crane and associated personnel.

23 74 23 00-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 00-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel.

23 74 23 00-0003 EA 100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	4,375.36 1,079.39 351.47	466.43
23 74 23 00-0004 EA 300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	5,596.73 1,412.12 446.45	528.62
23 74 23 00-0005 EA 500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	7,685.26 1,994.63 607.49	621.90
23 74 23 00-0006 EA 670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	7,783.83 2,000.87 617.21	663.37
23 74 23 00-0007 EA 800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	10,495.56 2,775.52 824.48	746.29
23 74 23 00-0008 EA 1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	15,745.79 4,257.31 1,227.58	932.86

23 74 23 00-0009 Electric Make-Up Air Units (23 74 23 00-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel.

23 74 23 00-0010 EA 33 KW 1/2 HP, 1,200 CFM Make-up Air Unit, Electric..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	8,614.25 2,351.06 669.39	466.43
23 74 23 00-0011 EA 100 KW 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	12,212.23 3,396.77 942.61	528.62
23 74 23 00-0012 EA 150 KW 2 HP, 4,000 CFM Make-up Air Unit, Electric..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	15,099.27 4,218.83 1,163.54	621.90
23 74 23 00-0013 EA 250 KW 5 HP, 7,500 CFM Make-up Air Unit, Electric..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	19,487.65 5,473.15 1,498.89	746.29
23 74 23 00-0014 EA 400 KW 10 HP, 10,000 CFM Make-up Air Unit, Electric..... For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add	31,293.28 8,921.55 2,393.64	932.86

23 76 Evaporative Air-Cooling Equipment (23 70)**23 76 13 Direct Evaporative Air Coolers (23 76)****23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit (23 76 13)**

Note: Includes motor, belt and pads.

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Central HVAC Equipment

23 70

Evaporative Air-Cooling Equipment

23 76

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 76 13 00-0002 EA 3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,154.55	317.94
23 76 13 00-0003 EA 4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,361.40	370.93
23 76 13 00-0004 EA 4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,733.35	423.92
23 76 13 00-0005 EA 5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,894.75	476.91
23 76 13 00-0006 EA 6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,166.97	529.90
23 76 13 00-0007 EA 7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,339.44	582.89
23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers (23 76 13)		
Note: Excludes motor starter, piping, power wiring and equipment rigging.		
23 76 13 00-0009 EA 7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit	2,048.55	310.58
23 76 13 00-0010 EA 8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit	2,114.17	320.63
23 76 13 00-0011 EA 9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	2,551.95	445.30
23 76 13 00-0012 EA 11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	5,230.56	525.63
23 76 13 00-0013 EA 13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	5,769.33	769.52
23 76 13 00-0014 EA 16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	6,576.79	820.83
23 76 13 00-0015 EA 15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	6,132.54	923.43
23 76 13 00-0016 EA 19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	7,305.78	1,154.28
23 76 13 00-0017 EA 17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	7,522.87	1,508.88
23 76 13 00-0018 EA 22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,298.06	1,539.04
23 76 13 00-0019 EA 24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,787.47	1,710.08
23 76 13 00-0020 EA 30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	11,993.54	2,671.98
23 76 13 00-0021 EA 35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	13,334.15	2,788.13
23 76 13 00-0022 EA 40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit	14,695.89	2,914.84
23 80 Decentralized Unitary HVAC Equipment (23)		
Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 00-0001 for disconnect.		
23 81 Decentralized Unitary HVAC Equipment (23 80)		
23 81 13 Packaged Terminal Air-Conditioners (23 81)		
Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.		
23 81 13 00-0001 Packaged Terminal Air-Conditioners (23 81 13)		
23 81 13 00-0002 Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners (23 81 13 00-0001)		
23 81 13 00-0003 EA 7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,201.45	198.71
For >35 To 70, Deduct	-24.12	
For >70 To 100, Deduct	-40.20	
For >100, Deduct	-56.28	
23 81 13 00-0004 EA 9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,292.04	237.42
For >35 To 70, Deduct	-24.53	
For >70 To 100, Deduct	-40.89	
For >100, Deduct	-57.24	
23 81 13 00-0005 EA 11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,369.70	253.03
For >35 To 70, Deduct	-25.89	
For >70 To 100, Deduct	-43.15	
For >100, Deduct	-60.41	
23 81 13 00-0006 EA 14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,478.42	271.98
For >35 To 70, Deduct	-28.04	
For >70 To 100, Deduct	-46.73	
For >100, Deduct	-65.43	
23 81 13 00-0007 Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners (23 81 13 00-0001)		
23 81 13 00-0008 EA 7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,280.40	210.67
For >35 To 70, Deduct	-25.79	
For >70 To 100, Deduct	-42.99	
For >100, Deduct	-60.18	
23 81 13 00-0009 EA 9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,364.75	237.42
For >35 To 70, Deduct	-26.71	
For >70 To 100, Deduct	-44.52	
For >100, Deduct	-62.33	
23 81 13 00-0010 EA 11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,422.38	253.03
For >35 To 70, Deduct	-27.47	
For >70 To 100, Deduct	-45.79	
For >100, Deduct	-64.10	
23 81 13 00-0011 EA 14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,547.97	271.98
For >35 To 70, Deduct	-30.13	
For >70 To 100, Deduct	-50.21	
For >100, Deduct	-70.30	
23 81 13 00-0012 Removal And Reinstallation Of Thru-Wall A/C Unit (23 81 13)		
Note: Includes storage and cleaning.		
23 81 13 00-0013 EA Removal And Reinstallation Of Thru Wall Air Conditioning Unit	211.96	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 13 00-0014 EA Removal And Reinstallation Of Window Air Conditioning Unit In Lower Sash.....	132.48	
23 81 13 00-0015 EA Removal And Reinstallation Of Window Air Conditioning Unit In Upper Sash.....	280.79	
23 81 13 00-0016 Thru Wall A/C Unit Sleeve (23 81 13)		
Note: Includes wall case, exterior grille, weather panel and steel closure panels. Includes bolts, nuts, washers, caulking and lintel supports. Not for use with new A/C units where wall sleeve is provided. Excludes cutting opening for unit or patching masonry or concrete.		
23 81 13 00-0017 EA Up To 10,000 BTU Unit, Thru Wall A/C Sleeve	81.34	
23 81 13 00-0018 EA >10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve	91.37	
23 81 13 00-0019 EA >20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve	101.38	
23 81 13 00-0020 Single Package Vertical Wall Cooling Unit (23 81 13)		
Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 V, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel.		
23 81 13 00-0021 EA 1/2 Ton Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	2,740.52	241.73
23 81 13 00-0022 EA 1 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	4,586.59	253.24
23 81 13 00-0023 EA 1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	5,947.70	264.76
23 81 13 00-0024 EA 2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	6,827.32	287.77
23 81 13 00-0025 EA 2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	8,542.67	333.82
23 81 13 00-0026 EA 3 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	9,208.35	414.40
23 81 13 00-0027 EA 3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	10,200.37	460.44
23 81 13 00-0028 EA 4 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	11,236.24	518.00
23 81 13 00-0029 EA 5 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	12,671.86	621.60
23 81 13 00-0030 EA 7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	16,360.80	771.24
23 81 13 00-0031 EA 10 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	19,598.86	1,036.00
23 81 13 00-0032 EA 15 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	27,342.61	1,266.23
23 81 13 00-0033 EA 20 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	31,532.72	1,507.96
23 81 13 00-0034 EA 25 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	37,604.43	1,692.14
23 81 16 Room Air-Conditioners (23 81)		
Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.		
23 81 16 00-0001 Window Unit, Room Air-Conditioners (23 81 16)		
23 81 16 00-0002 Cooling Only, Window Unit, Room Air-Conditioners (23 81 16 00-0001)		
23 81 16 00-0003 Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0002)		
23 81 16 00-0004 EA 5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1)	421.56	111.27
For >10 To 50, Deduct	-9.95	
For >50 To 75, Deduct	-13.93	
For >75 To 100, Deduct	-19.90	
For >100, Deduct	-23.88	
23 81 16 00-0005 EA 6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1)	614.07	111.27
For >10 To 50, Deduct	-10.95	
For >50 To 75, Deduct	-15.33	
For >75 To 100, Deduct	-21.90	
For >100, Deduct	-26.28	
23 81 16 00-0006 EA 8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833Q1)	491.56	111.27
For >10 To 50, Deduct	-13.45	
For >50 To 75, Deduct	-18.83	
For >75 To 100, Deduct	-26.90	
For >100, Deduct	-32.28	
23 81 16 00-0007 EA 10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033Q1)	561.56	111.27
For >10 To 50, Deduct	-16.95	
For >50 To 75, Deduct	-23.73	
For >75 To 100, Deduct	-33.90	
For >100, Deduct	-40.68	
23 81 16 00-0008 EA 12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1)	651.56	111.27
For >10 To 50, Deduct	-21.45	
For >50 To 75, Deduct	-30.03	
For >75 To 100, Deduct	-42.90	
For >100, Deduct	-51.48	
23 81 16 00-0009 EA 15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1)	751.56	111.27
For >10 To 50, Deduct	-26.45	
For >50 To 75, Deduct	-37.03	
For >75 To 100, Deduct	-52.90	
For >100, Deduct	-63.48	
23 81 16 00-0010 EA 8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1)	711.56	111.27
For >10 To 50, Deduct	-24.45	
For >50 To 75, Deduct	-34.23	
For >75 To 100, Deduct	-48.90	
For >100, Deduct	-58.68	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Decentralized Unitary HVAC Equipment

23 81**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0011	EA	10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1).....	761.56	111.27
		For >10 To 50, Deduct	-26.95	
		For >50 To 75, Deduct	-37.73	
		For >75 To 100, Deduct	-53.90	
		For >100, Deduct	-64.68	
23 81 16 00-0012	EA	12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1).....	801.56	111.27
		For >10 To 50, Deduct	-28.95	
		For >50 To 75, Deduct	-40.53	
		For >75 To 100, Deduct	-57.90	
		For >100, Deduct	-69.48	
23 81 16 00-0013	EA	15,100 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1).....	811.56	111.27
		For >10 To 50, Deduct	-29.45	
		For >50 To 75, Deduct	-41.23	
		For >75 To 100, Deduct	-58.90	
		For >100, Deduct	-70.68	
23 81 16 00-0014	EA	18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2).....	841.56	111.27
		For >10 To 50, Deduct	-30.95	
		For >50 To 75, Deduct	-43.33	
		For >75 To 100, Deduct	-61.90	
		For >100, Deduct	-74.28	
23 81 16 00-0015	EA	22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2).....	921.56	111.27
		For >10 To 50, Deduct	-34.95	
		For >50 To 75, Deduct	-48.93	
		For >75 To 100, Deduct	-69.90	
		For >100, Deduct	-83.88	
23 81 16 00-0016	EA	25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2).....	931.56	111.27
		For >10 To 50, Deduct	-35.45	
		For >50 To 75, Deduct	-49.63	
		For >75 To 100, Deduct	-70.90	
		For >100, Deduct	-85.08	
23 81 16 00-0017	EA	28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2).....	1,051.56	111.27
		For >10 To 50, Deduct	-41.45	
		For >50 To 75, Deduct	-58.03	
		For >75 To 100, Deduct	-82.90	
		For >100, Deduct	-99.48	
23 81 16 00-0018		Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) (23 81 16 00-0002)		
23 81 16 00-0019	EA	8,000 BTU, 11.5 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10B).....	1,151.56	111.27
23 81 16 00-0020	EA	9,700 BTU, 11.3 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10B).....	1,241.56	111.27
23 81 16 00-0021	EA	11,900 BTU, 11.3 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C).....	1,271.56	111.27
23 81 16 00-0022	EA	12,000 BTU, 11.3 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C).....	1,366.56	111.27
23 81 16 00-0023	EA	17,500 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30A).....	1,471.56	111.27
23 81 16 00-0024	EA	24,000 BTU, 8.5 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C).....	1,951.56	111.27
23 81 16 00-0025	EA	28,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30B).....	2,021.56	111.27
23 81 16 00-0026	EA	36,000 BTU, 8.5 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B).....	2,251.56	111.27
23 81 16 00-0027		Heating And Cooling, Window Unit, Room Air-Conditioners (23 81 16 00-0001)		
23 81 16 00-0028		Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0027)		
23 81 16 00-0029	EA	8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FRA12EZU2).....	781.56	111.27
		For >10 To 50, Deduct	-27.95	
		For >50 To 75, Deduct	-39.13	
		For >75 To 100, Deduct	-55.90	
		For >100, Deduct	-67.08	
23 81 16 00-0030	EA	12,000 BTU, 9.8 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222Q2).....	1,011.56	111.27
		For >10 To 50, Deduct	-39.45	
		For >50 To 75, Deduct	-55.23	
		For >75 To 100, Deduct	-78.90	
		For >100, Deduct	-94.68	
23 81 16 00-0031	EA	18,000 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822Q2).....	971.56	111.27
		For >10 To 50, Deduct	-37.45	
		For >50 To 75, Deduct	-52.43	
		For >75 To 100, Deduct	-74.90	
		For >100, Deduct	-89.88	
23 81 16 00-0032	EA	25,000 BTU, 9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522Q2).....	1,191.56	111.27
		For >10 To 50, Deduct	-48.45	
		For >50 To 75, Deduct	-67.83	
		For >75 To 100, Deduct	-96.90	
		For >100, Deduct	-116.28	
23 81 16 00-0033		Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) (23 81 16 00-0027)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0034 EA 7,500 BTU, 11.0 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich EQ08N11C)	971.56	111.27
23 81 16 00-0035 EA 12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B)	1,371.56	111.27
23 81 16 00-0036 Accessories (23 81 16 00-0001)		
23 81 16 00-0037 SET Aluminum Air Conditioner Unit Frame And Bracket Assembly	362.52	61.31
23 81 16 00-0038 Through-The-Wall, Room Air-Conditioners (23 81 16)		
Note: Base unit excludes wall sleeve.		
23 81 16 00-0039 Cooling Only, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0038)		
23 81 16 00-0040 Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0039)		
23 81 16 00-0041 EA 8,000 BTU, 10.4 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10)	887.97	79.49
For >10 To 50, Deduct	-36.45	
For >50 To 75, Deduct	-51.03	
For >75 To 100, Deduct	-72.90	
For >100, Deduct	-87.48	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 16 00-0042 EA 9,700 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10)	947.97	79.49
For >10 To 50, Deduct	-39.45	
For >50 To 75, Deduct	-55.23	
For >75 To 100, Deduct	-78.90	
For >100, Deduct	-94.68	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 16 00-0043 EA 12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A)	1,077.97	79.49
For >10 To 50, Deduct	-45.95	
For >50 To 75, Deduct	-64.33	
For >75 To 100, Deduct	-91.90	
For >100, Deduct	-110.28	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 16 00-0044 EA 10,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10C30D)	952.97	79.49
For >10 To 50, Deduct	-39.70	
For >50 To 75, Deduct	-55.58	
For >75 To 100, Deduct	-79.40	
For >100, Deduct	-95.28	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 16 00-0045 EA 11,500 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12C30D)	1,072.97	79.49
For >10 To 50, Deduct	-45.70	
For >50 To 75, Deduct	-63.98	
For >75 To 100, Deduct	-91.40	
For >100, Deduct	-109.68	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 16 00-0046 Heating And Cooling, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0038)		
23 81 16 00-0047 Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0046)		
23 81 16 00-0048 EA 10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33)	1,107.97	79.49
For >10 To 50, Deduct	-47.45	
For >50 To 75, Deduct	-66.43	
For >75 To 100, Deduct	-94.90	
For >100, Deduct	-113.88	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 16 00-0049 EA 12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33)	1,157.97	79.49
For >10 To 50, Deduct	-49.95	
For >50 To 75, Deduct	-69.93	
For >75 To 100, Deduct	-99.90	
For >100, Deduct	-119.88	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 23 Computer-Room Air-Conditioners (23 81)		
Note: Includes equipment rigging. Indoor units include filters.		
23 81 23 00-0001 Floor Mounted Air Cooled Direct Expansion Type (23 81 23)		
Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. Excludes precharged copper pipe.		
23 81 23 00-0002 EA 3 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	20,514.58	2,262.04
Note: Includes interior unit and remote condenser. Excludes piping.		
For Liebert Unit, Add	2,139.72	
23 81 23 00-0003 EA 5 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	22,634.67	2,474.11
Note: Includes interior unit and remote condenser. Excludes piping.		
For Liebert Unit, Add	2,362.87	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Decentralized Unitary HVAC Equipment			23 81

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 00-0004 EA 6 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. For Liebert Unit, Add	30,921.68 3,339.52	2,827.55
23 81 23 00-0005 EA 10 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. For Liebert Unit, Add	36,656.22 3,990.62	3,180.99
23 81 23 00-0006 EA 16 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. For Liebert Unit, Add	41,265.67 4,438.24	3,817.19
23 81 23 00-0007 EA 20 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. For Liebert Unit, Add	46,540.08 5,028.97	4,241.33
23 81 23 00-0008 EA 24 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. For Liebert Unit, Add	48,915.69 5,265.26	4,524.09
23 81 23 00-0009 EA 30 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. For Liebert Unit, Add	57,253.50 6,210.44	5,089.59
23 81 23 00-0010 Floor Mounted Chilled Water Type (23 81 23) Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 00-0018 for chilled water source.		
23 81 23 00-0011 EA 3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	13,766.39 1,462.47	1,549.96
23 81 23 00-0012 EA 5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	14,822.10 1,566.62	1,716.88
23 81 23 00-0013 EA 12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	18,605.22 1,889.81	2,615.06
23 81 23 00-0014 EA 16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	19,404.78 1,984.06	2,649.50
23 81 23 00-0015 EA 20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	20,159.02 2,058.86	2,755.49
23 81 23 00-0016 EA 22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	20,737.54 2,088.78	3,020.44
23 81 23 00-0017 EA 31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source For Liebert Unit, Add	22,039.41 2,208.47	3,285.39
23 81 23 00-0018 Floor Mounted Water Source (23 81 23) Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes water source.		
23 81 23 00-0019 EA 3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	10,873.80 1,095.12	1,413.77
23 81 23 00-0020 EA 5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	11,923.46 1,213.06	1,484.46
23 81 23 00-0021 EA 6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	15,229.69 1,613.20	1,555.16
23 81 23 00-0022 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	16,430.35 1,735.34	1,696.53
23 81 23 00-0023 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	18,125.28 1,920.67	1,837.91
23 81 23 00-0024 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	18,881.48 1,988.06	1,979.28
23 81 23 00-0025 EA 15 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	19,732.60 2,072.30	2,120.67
23 81 23 00-0026 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	20,336.58 2,122.85	2,262.04
23 81 23 00-0027 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit..... For Liebert Unit, Add	23,333.44 2,414.88	2,686.17
23 81 23 00-0028 Floor Mounted Glycol System Type (23 81 23) Note: Includes drycoolers, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 00-0018 for water source.		
23 81 23 00-0029 EA 3 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	19,476.21 2,176.20	1,549.96
23 81 23 00-0030 EA 5 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	20,994.19 2,338.13	1,716.88
23 81 23 00-0031 EA 6 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	31,947.63 3,672.86	1,923.54
23 81 23 00-0032 EA 9 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	33,054.33 3,776.76	2,130.21
23 81 23 00-0033 EA 10 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	35,411.56 4,036.97	2,336.86
23 81 23 00-0034 EA 16 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	42,300.73 4,843.80	2,649.50
23 81 23 00-0035 EA 20 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	46,287.35 5,324.90	2,755.49
23 81 23 00-0036 EA 22 Ton Computer Room Air Conditioner, Glycol System Type For Liebert Unit, Add	48,094.16 5,508.36	3,020.44

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 00-0037 EA 30 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	58,337.70 6,745.75	3,285.39
23 81 23 00-0038 Ceiling Mounted Packaged Computer Room Air Conditioner (23 81 23) Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air cooled condenser complete with fan speed control.		
23 81 23 00-0039 EA 1 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	7,982.01 871.82	671.92
23 81 23 00-0040 EA 1.5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	8,869.70 957.49	806.94
23 81 23 00-0041 EA 2 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	10,191.29 1,084.66	1,009.88
23 81 23 00-0042 EA 3 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	12,478.44 1,339.01	1,178.19
23 81 23 00-0043 EA 5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System <i>For Liebert Unit, Add</i>	16,701.70 1,847.72	1,280.55
23 81 23 00-0044 Removal And Reinstallation Of Computer Room Unit (23 81 23) Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.		
23 81 23 00-0045 EA Removal And Reinstallation Of Computer Room Unit, Chilled Water	2,119.60	
23 81 23 00-0046 EA Removal And Reinstallation Of Computer Room Unit, Direct Expansion.....	1,766.33	
23 81 26 Split-System Air-Conditioners (23 81)		
23 81 26 00-0001 Split System A/C Unit (23 81 26) See CSI section 22 07 19 00-0494 for insulation, 23 23 16 00-0001 for piping, 23 54 00 00-0000 for furnaces.		
23 81 26 00-0002 Ductless Split System Air Conditioners (23 81 26 00-0001) Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0024 for ductless heat pumps.		
23 81 26 00-0003 Wall Mounted Ductless Split System Air Conditioners (23 81 26 00-0002)		
23 81 26 00-0004 EA 9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	1,887.67	349.74
23 81 26 00-0005 EA 11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,047.21	381.53
23 81 26 00-0006 EA 17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,543.22	423.92
23 81 26 00-0007 EA 24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,826.23	466.31
23 81 26 00-0008 EA 25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,278.33	508.70
23 81 26 00-0009 EA 29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,958.85	529.90
23 81 26 00-0010 EA 31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,434.98	564.88
23 81 26 00-0011 Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners (23 81 26 00-0002) Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 26 00-0012 EA 7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	819.68	169.57
23 81 26 00-0013 EA 9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	867.47	180.17
23 81 26 00-0014 EA 11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners..... Note: Includes indoor unit and wireless thermostat.	916.00	190.76
23 81 26 00-0015 EA 17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners..... Note: Includes indoor unit and wireless thermostat.	1,031.37	201.37
23 81 26 00-0016 EA 24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners..... Note: Includes indoor unit and wireless thermostat.	1,102.66	211.96
23 81 26 00-0017 EA 19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes outdoor unit and refrigerant charge.	2,201.72	254.36
23 81 26 00-0018 EA 25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes outdoor unit and refrigerant charge.	2,434.67	275.55
23 81 26 00-0019 EA 30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes outdoor unit and refrigerant charge.	3,798.78	296.75
23 81 26 00-0020 Suspended Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 00-0002) Note: Excludes hangers.		
23 81 26 00-0021 EA 24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,567.24	508.70
23 81 26 00-0022 EA 31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,566.54	607.27
23 81 26 00-0023 EA 39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,754.54	635.88

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Decentralized Unitary HVAC Equipment

23 81**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 00-0024 Recessed Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 00-0002) Note: Excludes hangers.		
23 81 26 00-0025 EA 11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,840.70	423.92
23 81 26 00-0026 EA 17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,304.40	466.31
23 81 26 00-0027 EA 24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,563.04	551.09
23 81 26 00-0028 EA 32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,272.73	607.27
23 81 26 00-0029 EA 39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,607.63	635.88
23 81 26 00-0030 Ductless Split System Accessories (23 81 26 00-0002)		
23 81 26 00-0031 LF 3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0032 LF 4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0033 LF 6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0034 EA 3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0035 EA 4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0036 EA 6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0037 EA 3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0038 EA 4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0039 EA 6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0040 EA 3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0041 EA 4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0042 EA 6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0043 EA 3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0044 EA 4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0045 EA 6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0046 EA 3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0047 EA 4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0048 EA 6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0049 EA 2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0050 EA 3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0051 EA 4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0052 EA 3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0053 EA 4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0054 EA 6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0055 EA 4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0056 EA 6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers 23 81 26 00-0057 EA 14" Condensing Unit Mounting Blocks With End Caps 23 81 26 00-0058 EA 17" Condensing Unit Mounting Blocks With End Caps 23 81 26 00-0059 EA 36" Condensing Unit Mounting Blocks With End Caps 23 81 26 00-0060 EA End Cap, Set of 4 23 81 26 00-0061 EA 18" Condensing Unit Type 2 Wall Bracket, 165 LB Capacity 23 81 26 00-0062 EA 21" Condensing Unit Type 2 Wall Bracket, 220 LB Capacity 23 81 26 00-0063 LF 5/8" ID Condensate Drain Line 23 81 26 00-0064 LF 3/4" ID Condensate Drain Line	9.11 11.38 13.88 15.66 24.75 28.04 37.21 57.72 64.31 47.75 55.47 82.13 37.21 57.72 64.31 51.08 70.38 82.94 24.53 31.34 47.15 28.99 37.77 40.84 115.73 130.94 102.77 112.05 141.28 11.72 213.83 227.35 1.76 1.82	1.52 1.67 1.84 2.85 3.13 3.45 5.70 6.27 6.89 6.08 6.68 7.36 5.70 6.27 6.89 9.50 10.45 11.49 1.90 5.70 6.27 6.89 7.60 8.36 28.50 30.39 32.29 56.99 60.79 0.15 0.15
23 81 26 00-0065 Cased A/C Evaporator Coils (23 81 26 00-0001)		
23 81 26 00-0066 Vertical Cased A/C Evaporator Coils (23 81 26 00-0065)		
23 81 26 00-0067 EA 1-1/2 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0068 EA 2 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0069 EA 2-1/2 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0070 EA 3 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0071 EA 3-1/2 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0072 EA 4 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0073 EA 4-1/2 Ton Vertical Cased A/C Evaporator Coil..... 23 81 26 00-0074 EA 5 Ton Vertical Cased A/C Evaporator Coil.....	461.25 484.64 562.36 631.52 715.11 787.27 845.79 858.72	111.46 119.82 128.19 136.54 142.12 147.69 158.84 167.20
23 81 26 00-0075 "A" Style Horizontal Cased A/C Evaporator Coils (23 81 26 00-0065)		
23 81 26 00-0076 EA 2 Ton "A" Style Horizontal Cased A/C Evaporator Coil..... 23 81 26 00-0077 EA 2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil..... 23 81 26 00-0078 EA 3 Ton "A" Style Horizontal Cased A/C Evaporator Coil..... 23 81 26 00-0079 EA 3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil..... 23 81 26 00-0080 EA 4 Ton "A" Style Horizontal Cased A/C Evaporator Coil..... 23 81 26 00-0081 EA 4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil..... 23 81 26 00-0082 EA 5 Ton "A" Style Horizontal Cased A/C Evaporator Coil.....	543.09 614.00 692.82 718.43 752.44 767.08 781.42	114.26 120.66 128.19 132.81 139.34 146.57 153.82
23 81 26 00-0083 Slab Style Horizontal Cased A/C Evaporator Coils (23 81 26 00-0065)		
23 81 26 00-0084 EA 2 Ton Slab Style Horizontal Cased A/C Evaporator Coil 23 81 26 00-0085 EA 3 Ton Slab Style Horizontal Cased A/C Evaporator Coil 23 81 26 00-0086 EA 4 Ton Slab Style Horizontal Cased A/C Evaporator Coil 23 81 26 00-0087 EA 5 Ton Slab Style Horizontal Cased A/C Evaporator Coil	488.75 577.47 659.02 780.47	114.26 128.19 139.34 153.82

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 00-0088	Mitsubishi City Multi, Variable Refrigerant Flow (23 81 26 00-0001)			
23 81 26 00-0089	Outdoor Units (23 81 26 00-0088)			
23 81 26 00-0090	EA	6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A).....	13,359.76	556.39
23 81 26 00-0091	EA	8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A).....	14,503.73	662.38
23 81 26 00-0092	EA	10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A).....	16,336.10	794.85
23 81 26 00-0093	EA	12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A).....	20,070.67	821.34
23 81 26 00-0094	EA	12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A).....	26,568.54	847.84
23 81 26 00-0095	EA	14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YSKMU-A).....	27,553.53	874.34
23 81 26 00-0096	EA	16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A).....	28,538.53	900.83
23 81 26 00-0097	EA	18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A).....	30,211.94	953.82
23 81 26 00-0098	EA	20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A).....	31,885.33	1,006.82
23 81 26 00-0099	EA	22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A).....	35,672.89	1,059.80
23 81 26 00-0100	EA	24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A).....	39,460.46	1,112.79
23 81 26 00-0101	Indoor Units (23 81 26 00-0088)			
23 81 26 00-0102	EA	6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2).....	1,256.39	172.21
23 81 26 00-0103	EA	8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NBMU-E2).....	1,322.99	185.46
23 81 26 00-0104	EA	12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NBMU-E2).....	1,383.27	198.71
23 81 26 00-0105	EA	15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NBMU-E2).....	1,454.09	211.96
23 81 26 00-0106	EA	18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NBMU-E2).....	1,587.40	251.70
23 81 26 00-0107	EA	24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NBMU-E2).....	1,786.27	304.69
23 81 26 00-0108	EA	30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NBMU-E2).....	1,935.31	331.19
23 81 26 00-0109	EA	6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E2).....	1,786.92	189.43
23 81 26 00-0110	EA	8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E2).....	1,854.06	204.01
23 81 26 00-0111	EA	12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E2).....	1,957.09	218.59
23 81 26 00-0112	EA	15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E2).....	2,121.33	233.15
23 81 26 00-0113	EA	18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E2).....	2,256.27	276.87
23 81 26 00-0114	EA	24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E2).....	2,494.22	335.16
23 81 26 00-0115	EA	27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E2).....	2,621.54	349.74
23 81 26 00-0116	EA	30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E2).....	2,761.51	364.30
23 81 26 00-0117	EA	36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E2).....	3,061.31	400.73
23 81 26 00-0118	EA	48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E2).....	3,391.60	440.81
23 81 26 00-0119	EA	54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E2).....	3,675.03	484.90
23 81 26 00-0120	EA	72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E).....	4,613.24	533.38
23 81 26 00-0121	EA	96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E).....	5,226.56	586.72
23 81 26 00-0122	EA	12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NBMU-ER2).....	1,997.20	218.59
23 81 26 00-0123	EA	15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NBMU-ER2).....	2,107.61	233.15
23 81 26 00-0124	EA	18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P18NBMU-ER2).....	2,242.55	276.87
23 81 26 00-0125	EA	24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P24NBMU-ER2).....	2,528.00	335.16
23 81 26 00-0126	EA	30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P30NBMU-ER2).....	2,724.57	364.30
23 81 26 00-0127	EA	36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P36NBMU-ER2).....	3,304.07	400.74
23 81 26 00-0128	EA	6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5).....	1,824.92	189.43
23 81 26 00-0129	EA	8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5).....	1,921.61	204.01
23 81 26 00-0130	EA	12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5).....	2,064.75	218.59
23 81 26 00-0131	EA	15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5).....	2,175.16	233.15
23 81 26 00-0132	EA	8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4).....	1,705.23	204.01
23 81 26 00-0133	EA	12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4).....	1,794.54	218.59
23 81 26 00-0134	EA	15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NCMU-ER4).....	1,888.07	233.15
23 81 26 00-0135	Controllers For Outdoor Units (23 81 26 00-0088)			
23 81 26 00-0136	EA	8 Branch (Main BC) (Mitsubishi CMB-P108NU-GA).....	5,887.81	158.97
23 81 26 00-0137	EA	10 Branch (Main BC) (Mitsubishi CMB-P1010NU-GA).....	6,794.70	185.46
23 81 26 00-0138	EA	13 Branch (Main BC) (Mitsubishi CMB-P1013NU-GA).....	7,877.86	211.96
23 81 26 00-0139	EA	16 Branch (Main BC) (Mitsubishi CMB-P1016NU-HA).....	9,343.11	238.45
23 81 26 00-0140	EA	4 Branch (Sub BC) (Mitsubishi CMB-P104NU-GB).....	3,443.90	105.98
23 81 26 00-0141	EA	8 Branch (Sub BC) (Mitsubishi CMB-P108NU-GB).....	5,303.07	158.97
23 81 26 00-0142	EA	16 Branch (Sub BC) (Mitsubishi CMB-P1016NU-HB).....	8,103.95	238.45
23 81 26 00-0143	EA	ME Remote Controller (Mitsubishi PAR-F27MEA-US).....	505.39	21.19
23 81 26 00-0144	EA	AG-150 Standard Package (Mitsubishi AG-150A-Standard).....	4,751.67	21.19
23 81 26 00-0145	EA	GB-50ADA Standard Package (Mitsubishi GB-50ADA-A).....	2,917.21	21.19
23 81 26 00-0146	Energy Recovery Units (23 81 26 00-0088)			
23 81 26 00-0147	EA	36.2 MBH Cooling, 39.9 MBH Heating Hydronic Heat Exchanger Auxiliary Unit (Mitsubishi PWFY-P36NNU-E-AU).....	4,384.78	158.97
23 81 26 00-0148	EA	39.9 MBH Hydronic Heat Exchanger Booster Unit (Mitsubishi PWFY-P36NNU-E-BU).....	8,221.52	158.97



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Decentralized Unitary HVAC Equipment			23 81

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 00-0149	EA	112 MBH Cooling, 61.4 MBH Heating Reheat Unit (Mitsubishi PEFY-AF1200CFMR)	8,352.62	185.46
23 81 26 00-0150	EA	Lossnay Energy Recovery Ventilator ERV, 300 CFM (Mitsubishi LGH-F300RX5-E)	1,784.87	132.48
23 81 26 00-0151	EA	Lossnay Energy Recovery Ventilator ERV, 470 CFM (Mitsubishi LGH-F470RX5-E)	2,257.78	137.77
23 81 26 00-0152	EA	Lossnay Energy Recovery Ventilator ERV, 600 CFM (Mitsubishi LGH-F600RX5-E)	2,681.07	143.07
23 81 26 00-0153	EA	Lossnay Energy Recovery Ventilator ERV, 1,200 CFM (Mitsubishi LGH-F1200RX3-E)	4,833.37	158.97
23 81 26 00-0154 Piping Specialties (23 81 26 00-0088)				
23 81 26 00-0155	EA	Maintenance Tool Interface (Mitsubishi CMS-MNG-E)	601.64	
23 81 26 00-0156	EA	Branch Joint (Mitsubishi CMY-Y102SS-G2)	184.90	42.35
23 81 26 00-0157	EA	Branch Joint (Mitsubishi CMY-Y102LS-G2)	184.90	42.35
23 81 26 00-0158	EA	Branch Joint (Mitsubishi CMY-Y202S-G2)	204.20	44.57
23 81 26 00-0159	EA	Branch Joint (Mitsubishi CMY-Y302S-G2)	252.28	50.15
23 81 26 00-0160	EA	Header - 4 Branch (Mitsubishi CMY-Y64-G-E)	333.79	72.44
23 81 26 00-0161	EA	Header - 8 Branch (Mitsubishi CMY-Y68-G-E)	579.99	144.86
23 81 26 00-0162	EA	Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" (Mitsubishi BV38FFS)	91.60	17.83
23 81 26 00-0163	EA	Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" (Mitsubishi BV58FFS)	106.03	24.51
23 81 26 00-0164 Daikin VRV (23 81 26 00-0001)				
23 81 26 00-0165 Heat Pump Outdoor Units (23 81 26 00-0164)				
23 81 26 00-0166	EA	6 Ton Heat Pump Outdoor Unit (Daikin RXYQ72PBTJ)	13,229.72	556.39
23 81 26 00-0167	EA	8 Ton Heat Pump Outdoor Unit (Daikin RXYQ96PBTJ)	14,823.44	662.38
23 81 26 00-0168	EA	10 Ton Heat Pump Outdoor Unit (Daikin RXYQ120PBTJ)	16,576.44	794.85
23 81 26 00-0169	EA	12 Ton Heat Pump Outdoor Unit (Daikin RXYQ144PBTJ)	20,562.12	821.34
23 81 26 00-0170	EA	14 Ton Heat Pump Outdoor Unit (Daikin RXYQ168PBTJ)	27,364.28	874.34
23 81 26 00-0171	EA	16 Ton Heat Pump Outdoor Unit (Daikin RXYQ192PBTJ)	28,905.32	900.83
23 81 26 00-0172	EA	18 Ton Heat Pump Outdoor Unit (Daikin RXYQ216PBTJ)	30,393.06	953.82
23 81 26 00-0173	EA	20 Ton Heat Pump Outdoor Unit (Daikin RXYQ240PBTJ)	31,987.08	1,006.82
23 81 26 00-0174	EA	22 Ton Heat Pump Outdoor Unit (Daikin RXYQ264PBTJ)	41,233.90	1,059.80
23 81 26 00-0175	EA	24 Ton Heat Pump Outdoor Unit (Daikin RXYQ288PBTJ)	42,827.93	1,112.79
23 81 26 00-0176	EA	26 Ton Heat Pump Outdoor Unit (Daikin RXYQ312PBTJ)	44,421.94	1,165.78
23 81 26 00-0177	EA	28 Ton Heat Pump Outdoor Unit (Daikin RXYQ336PBTJ)	45,909.69	1,218.77
23 81 26 00-0178	EA	30 Ton Heat Pump Outdoor Unit (Daikin RXYQ360PBTJ)	47,503.71	1,271.76
23 81 26 00-0179 Heat Recovery Heat Pump Outdoor Units (23 81 26 00-0164)				
23 81 26 00-0180	EA	6 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ72PBTJ)	16,951.77	723.32
23 81 26 00-0181	EA	8 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ96PBTJ)	18,549.91	861.09
23 81 26 00-0182	EA	10 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ120PBTJ)	20,454.58	1,033.31
23 81 26 00-0183	EA	12 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ144PBTJ)	25,519.05	1,067.75
23 81 26 00-0184	EA	14 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ168PBTJ)	34,266.22	1,136.64
23 81 26 00-0185	EA	16 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ192PBTJ)	36,886.04	1,171.08
23 81 26 00-0186	EA	18 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ216PBTJ)	38,299.28	1,239.97
23 81 26 00-0187	EA	20 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ240PBTJ)	39,712.53	1,308.85
23 81 26 00-0188	EA	22 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ264PBTJ)	52,020.37	1,377.74
23 81 26 00-0189	EA	24 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ288PBTJ)	53,433.61	1,446.63
23 81 26 00-0190	EA	26 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ312PBTJ)	56,122.32	1,515.52
23 81 26 00-0191	EA	28 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ336PBTJ)	57,535.56	1,584.40
23 81 26 00-0192 Indoor Units (23 81 26 00-0164)				
23 81 26 00-0193	EA	7.5 MBH Cooling, 8.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ07PVJU)	1,614.31	185.46
23 81 26 00-0194	EA	9.5 MBH Cooling, 10.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ09PVJU)	1,684.07	190.76
23 81 26 00-0195	EA	12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ12PVJU)	1,891.49	198.71
23 81 26 00-0196	EA	18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ18PVJU)	2,143.86	251.70
23 81 26 00-0197	EA	24 MBH Cooling, 26.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ24PVJU)	2,376.19	304.69
23 81 26 00-0198	EA	7.5 MBH Cooling, 8.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ07PVJU)	2,309.19	204.01
23 81 26 00-0199	EA	9.5 MBH Cooling, 10.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ09PVJU)	2,386.02	209.84
23 81 26 00-0200	EA	12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ12PVJU)	2,504.79	116.58
23 81 26 00-0201	EA	18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ18PVJU)	2,696.57	276.87
23 81 26 00-0202	EA	24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ24PVJU)	3,201.20	335.16
23 81 26 00-0203	EA	30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ30PVJU)	3,645.55	364.30
23 81 26 00-0204	EA	36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ36PVJU)	3,904.91	400.73
23 81 26 00-0205	EA	48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ48PVJU)	4,060.26	440.81
23 81 26 00-0206	EA	7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ07M7VJU)	2,563.88	204.01
23 81 26 00-0207	EA	9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ09M7VJU)	2,625.68	209.84
23 81 26 00-0208	EA	12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ12M7VJU)	2,788.56	218.59
23 81 26 00-0209	EA	18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ18M7VJU)	3,010.43	276.87
23 81 26 00-0210 Branch Selector Boxes (23 81 26 00-0164)				
23 81 26 00-0211	EA	144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin BSV4Q36PVJU)	7,491.97	238.45
23 81 26 00-0212	EA	216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin BSV6Q36PVJU)	11,052.19	317.94
23 81 26 00-0213	EA	36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin BSVQ36PVJU)	1,525.53	105.98
23 81 26 00-0214	EA	60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ60PVJU)	2,069.70	158.97
23 81 26 00-0215	EA	96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ96PVJU)	2,602.69	238.45

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 00-0216	Controllers (23 81 26 00-0164)			
23 81 26 00-0217	EA	Up To 16 Units, Navigation Controller (Daikin BRC1E71)	537.85	21.19
23 81 26 00-0218	EA	Individual Zone Controller (Daikin BRC2A71)	413.51	21.19
23 81 26 00-0219	EA	Up To 16 Groups, Unified ON/OFF Controller (Daikin DCS301C71)	717.33	21.19
23 81 26 00-0220	EA	Up To 64 Units, Multizone Controller (Daikin DCS302C71)	969.02	21.19
23 81 26 00-0221	EA	I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin DCM601A71)	9,261.79	254.36
23 81 26 00-0222	EA	I-Touch Manager D3net Plus Adapter (Daikin DCM601A72)	1,615.78	21.19
23 81 26 00-0223	Energy Recovery Units (23 81 26 00-0164)			
23 81 26 00-0224	EA	300 CFM Energy Recovery Unit (Daikin VAM300GVJU)	2,630.38	132.48
23 81 26 00-0225	EA	470 CFM Energy Recovery Unit (Daikin VAM470GVJU)	3,385.00	137.77
23 81 26 00-0226	EA	600 CFM Energy Recovery Unit (Daikin VAM600GVJU)	4,033.32	143.07
23 81 26 00-0227	EA	1,200 CFM Energy Recovery Unit (Daikin VAM1200GVJU)	7,439.29	158.97
23 81 43	Air-Source Unitary Heat Pumps (23 81)			
23 81 43 00-0001	Single Package Thru-Wall Heat Pumps (23 81 43)			
Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 V, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel.				
23 81 43 00-0002	EA	1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	1,852.06	172.67
		For Unit Economizer, Add	215.57	
		For >35 To 70, Deduct	-45.55	
		For >70 To 100, Deduct	-75.91	
		For >100, Deduct	-106.28	
		For Low Ambient Protection, 0 Degree F, Add	220.10	
23 81 43 00-0003	EA	1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	2,043.79	184.18
		For Unit Economizer, Add	238.12	
		For >35 To 70, Deduct	-50.61	
		For >70 To 100, Deduct	-84.35	
		For >100, Deduct	-118.09	
		For Low Ambient Protection, 0 Degree F, Add	241.04	
23 81 43 00-0004	EA	1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	3,460.81	184.18
		For Unit Economizer, Add	408.16	
		For >35 To 70, Deduct	-93.12	
		For >70 To 100, Deduct	-155.20	
		For >100, Deduct	-217.28	
		For Low Ambient Protection, 0 Degree F, Add	368.57	
23 81 43 00-0005	EA	2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	3,787.48	184.18
		For Unit Economizer, Add	446.90	
		For >35 To 70, Deduct	-102.23	
		For >70 To 100, Deduct	-170.38	
		For >100, Deduct	-238.53	
		For Low Ambient Protection, 0 Degree F, Add	197.20	
23 81 43 00-0006	EA	2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	4,282.85	195.69
		For Unit Economizer, Add	505.88	
		For >35 To 70, Deduct	-116.40	
		For >70 To 100, Deduct	-194.00	
		For >100, Deduct	-271.60	
		For Low Ambient Protection, 0 Degree F, Add	217.12	
23 81 43 00-0007	EA	3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	4,485.28	207.20
		For Unit Economizer, Add	530.18	
		For >35 To 70, Deduct	-122.47	
		For >70 To 100, Deduct	-204.12	
		For >100, Deduct	-285.77	
		For Low Ambient Protection, 0 Degree F, Add	631.43	
23 81 43 00-0008	EA	3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	5,048.12	207.20
		For Unit Economizer, Add	597.26	
		For >35 To 70, Deduct	-138.67	
		For >70 To 100, Deduct	-231.11	
		For >100, Deduct	-323.55	
		For Low Ambient Protection, 0 Degree F, Add	707.36	
23 81 43 00-0009	EA	4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	5,565.71	218.71
		For Unit Economizer, Add	659.14	
		For >35 To 70, Deduct	-153.85	
		For >70 To 100, Deduct	-256.41	
		For >100, Deduct	-358.98	
		For Low Ambient Protection, 0 Degree F, Add	776.03	
23 81 43 00-0010	EA	5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	6,410.77	253.24
		For Unit Economizer, Add	759.16	
		For >35 To 70, Deduct	-177.13	
		For >70 To 100, Deduct	-295.21	
		For >100, Deduct	-413.30	
		For Low Ambient Protection, 0 Degree F, Add	894.18	
23 81 43 00-0011	EA	7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat	11,710.14	299.29
		For Unit Economizer, Add	1,393.02	
		For >35 To 70, Deduct	-333.00	
		For >70 To 100, Deduct	-555.00	
		For >100, Deduct	-777.00	
		For Low Ambient Protection, 0 Degree F, Add	1,595.53	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

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Decentralized Unitary HVAC Equipment

23 81**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	15,076.47 1,793.75 -429.16 -715.26 -1,001.37 335.86	379.87
23 81 43 00-0013 EA 12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	18,395.97 2,190.48 -526.32 -877.21 -1,228.09 388.40	425.91
23 81 43 00-0014 EA 15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	22,683.18 2,702.87 -651.83 -1,086.39 -1,520.94 456.13	483.47
23 81 43 00-0015 EA 20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	30,186.28 3,601.63 -874.51 -1,457.51 -2,040.52 550.50	518.00
23 81 43 00-0016 EA 25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... For Unit Economizer, Add For >35 To 70, Deduct For >70 To 100, Deduct For >100, Deduct For Low Ambient Protection, 0 Degree F, Add	36,351.35 4,339.60 -1,056.70 -1,761.16 -2,465.63 634.26	564.05
23 81 43 00-0017 Single Package Vertical Wall Heat Pumps (23 81 43) Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 V, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel.		
23 81 43 00-0018 EA 1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	2,842.22	230.23
23 81 43 00-0019 EA 1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	3,438.99	253.24
23 81 43 00-0020 EA 1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	4,431.01	264.76
23 81 43 00-0021 EA 2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	5,076.31	287.77
23 81 43 00-0022 EA 2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	6,341.40	333.82
23 81 43 00-0023 EA 3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	6,778.98	379.87
23 81 43 00-0024 EA 3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	7,367.07	425.91
23 81 43 00-0025 EA 4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	8,287.91	471.96
23 81 43 00-0026 EA 5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	9,351.84	564.05
23 81 43 00-0027 Heat Pump, Room Air-Conditioners (23 81 43) Note: Includes throwaway filters and supplemental heat.		
23 81 43 00-0028 Heat Pump, Window Unit, Room Air-Conditioners (23 81 43 00-0027)		
23 81 43 00-0029 Heat Pump, Window Unit, Room Air-Conditioners (Friedrich) (23 81 43 00-0028)		
23 81 43 00-0030 EA 9,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10B)	1,431.56	111.27
For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	-60.45 -84.63 -120.90 -145.08	
23 81 43 00-0031 EA 11,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33B).....	1,571.56	111.27
For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	-67.45 -94.43 -134.90 -161.88	
23 81 43 00-0032 EA 17,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YM18N34B).....	1,781.56	111.27
For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	-77.95 -109.13 -155.90 -187.08	
23 81 43 00-0033 EA 24,000 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35B).....	2,071.56	111.27
For >10 To 50, Deduct For >50 To 75, Deduct For >75 To 100, Deduct For >100, Deduct	-92.45 -129.43 -184.90 -221.88	
23 81 43 00-0034 Heat Pump, Through-The-Wall, Room Air-Conditioners (23 81 43 00-0027) Note: Base unit excludes wall sleeve.		
23 81 43 00-0035 Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 43 00-0034)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0036 EA 9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D)	1,357.97	79.49
For >10 To 50, Deduct	-59.95	
For >50 To 75, Deduct	-83.93	
For >75 To 100, Deduct	-119.90	
For >100, Deduct	-143.88	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	
23 81 43 00-0037 EA 12,000 BTU, 8.6 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12C33D)	1,307.97	79.49
For >10 To 50, Deduct	-57.45	
For >50 To 75, Deduct	-80.43	
For >75 To 100, Deduct	-114.90	
For >100, Deduct	-137.88	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	227.98	

23 81 46 Water-Source Unitary Heat Pumps (23 81)

23 81 46 00-0001	Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pumps (23 81 46)		
Note: R410a. Includes rubber isolator hanger brackets. McQuay CCW Series.			
23 81 46 00-0002 EA 7 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	1,803.40	222.93	
23 81 46 00-0003 EA 9 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	1,853.27	222.93	
23 81 46 00-0004 EA 12 MBH, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,129.48	245.23	
23 81 46 00-0005 EA 19 MBH, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,252.75	267.51	
23 81 46 00-0006 EA 24 MBH, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,419.23	289.81	
23 81 46 00-0007 EA 30 MBH, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,818.44	312.11	
23 81 46 00-0008 EA 36 MBH, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,896.27	334.39	
23 81 46 00-0009 EA 42 MBH, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,151.42	356.69	
23 81 46 00-0010 EA 48 MBH, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,362.24	378.98	
23 81 46 00-0011 EA 60 MBH, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,434.53	401.28	

23 81 49 Split System Heat Pumps (23 81)

23 81 49 00-0001	Air Cooled, Outdoor Section (23 81 49)		
23 81 49 00-0002 EA 1.5 Ton, 14 SEER, Outdoor Heat Pump Unit	2,011.35	341.88	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	383.37		
For Winterstart Control, Add	111.53		
For 16 SEER, Add	433.07		
For 18 SEER, Add	657.07		
23 81 49 00-0003 EA 2 Ton, 14 SEER, Outdoor Heat Pump Unit	2,098.01	379.87	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	402.71		
For Winterstart Control, Add	118.45		
For 16 SEER, Add	441.51		
For 18 SEER, Add	669.88		
23 81 49 00-0004 EA 2.5 Ton, 14 SEER, Outdoor Heat Pump Unit	2,314.55	440.88	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	446.89		
For Winterstart Control, Add	132.64		
For 16 SEER, Add	477.60		
For 18 SEER, Add	724.64		
23 81 49 00-0005 EA 3 Ton, 14 SEER, Outdoor Heat Pump Unit	2,548.82	506.49	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	405.63		
For Winterstart Control, Add	148.00		
For 16 SEER, Add	516.60		
For 18 SEER, Add	783.81		
23 81 49 00-0006 EA 3.5 Ton, 14 SEER, Outdoor Heat Pump Unit	2,632.47	526.06	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	419.49		
For Winterstart Control, Add	153.11		
For 16 SEER, Add	532.32		
For 18 SEER, Add	807.65		
23 81 49 00-0007 EA 4 Ton, 14 SEER, Outdoor Heat Pump Unit	2,911.67	604.33	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	461.63		
For Winterstart Control, Add	168.27		
For 16 SEER, Add	594.02		
For 18 SEER, Add	901.27		
23 81 49 00-0008 EA 5 Ton, 14 SEER, Outdoor Heat Pump Unit	3,296.08	664.77	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	354.74		
For Winterstart Control, Add	118.43		
For 16 SEER, Add	680.46		
For 18 SEER, Add	1,032.42		
23 81 49 00-0009 EA 7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit	6,281.19	741.87	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	526.02		
For Winterstart Control, Add	158.19		
23 81 49 00-0010 EA 10 Ton, 11.1 EER, Outdoor Heat Pump Unit	8,665.52	890.23	
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.			
For Low Ambient Protection, 0 Degree F, Add	399.05		
For Winterstart Control, Add	201.30		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Decentralized Unitary HVAC Equipment

23 81**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0011 EA 15 Ton, 10.9 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	11,374.41 450.64 246.96	1,038.60
23 81 49 00-0012 EA 20 Ton, 10.3 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	15,635.19 477.95 299.40	1,112.79
23 81 49 00-0013 Indoor Section, Horizontal Upflow (23 81 49) Note: Electric heat. Includes throwaway filters.		
23 81 49 00-0014 EA 2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,091.96 97.80	113.40
23 81 49 00-0015 EA 2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,207.72 106.64	141.27
23 81 49 00-0016 EA 3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,266.99 109.61	170.63
23 81 49 00-0017 EA 3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,699.90 149.99	199.77
23 81 49 00-0018 EA 4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,750.95 152.55	225.21
23 81 49 00-0019 EA 5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,944.36 168.59	258.59
23 81 49 00-0020 EA 7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	4,116.29 369.24	423.92
23 81 49 00-0021 EA 10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 kW Electric Heat For Additional 5 KW Electric Heat, Add	6,030.89 555.40	476.91
23 81 49 00-0022 EA 15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat For Additional 5 KW Electric Heat, Add	8,425.09 789.52	529.90
23 81 49 00-0023 EA 20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat For Additional 5 KW Electric Heat, Add	9,584.33 894.83	635.88
23 81 49 00-0024 Ductless Split System Heat Pumps (23 81 49) Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 00-0030 for accessories.		
23 81 49 00-0025 Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0024)		
23 81 49 00-0026 EA 9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,034.57	349.74
23 81 49 00-0027 EA 11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,248.47	381.53
23 81 49 00-0028 EA 17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,731.26	423.92
23 81 49 00-0029 EA 24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,138.40	466.31
23 81 49 00-0030 EA 25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,395.36	508.70
23 81 49 00-0031 EA 29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,070.49	529.90
23 81 49 00-0032 EA 31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,556.17	564.88
23 81 49 00-0033 Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0024) Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 49 00-0034 EA 7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	851.99	169.57
23 81 49 00-0035 EA 9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	900.52	180.17
23 81 49 00-0036 EA 11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	949.79	190.76
23 81 49 00-0037 EA 17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,076.17	201.37
23 81 49 00-0038 EA 24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	1,146.74	211.96
23 81 49 00-0039 EA 19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	2,473.49	254.36
23 81 49 00-0040 EA 23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	2,923.13	275.55
23 81 49 00-0041 EA 30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	4,685.35	296.75
23 81 49 00-0042 Suspended Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0024) Note: Excludes hangers.		
23 81 49 00-0043 EA 24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,684.77	508.70
23 81 49 00-0044 EA 31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,687.73	607.27

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0045 EA 39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps .....6,827.99 Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,827.99	635.88
23 81 49 00-0046 Recessed Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0024) Note: Excludes hangers.		
23 81 49 00-0047 EA 11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....3,134.51 Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,134.51	423.92
23 81 49 00-0048 EA 17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....3,551.94 Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,551.94	466.31
23 81 49 00-0049 EA 24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....4,680.57 Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,680.57	551.09
23 81 49 00-0050 EA 32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....5,393.92 Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,393.92	607.27
23 81 49 00-0051 EA 39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps.....6,681.09 Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,681.09	635.88
23 82 Convection Heating And Cooling Units (23 80)		
23 82 16 Air Coils (23 82)		
23 82 16 00-0001 Chilled Water Cooling Coils (23 82 16) Note: Flanged construction, 16 gauge galvanized steel casing.		
23 82 16 00-0002 2 Row Chilled Water Cooling Coils (23 82 16 00-0001)		
23 82 16 00-0003 EA 12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....828.87	828.87	55.73
23 82 16 00-0004 EA 12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....1,349.92	1,349.92	75.79
23 82 16 00-0005 EA 24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....1,844.01	1,844.01	119.27
23 82 16 00-0006 EA 24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,272.80	2,272.80	170.54
23 82 16 00-0007 EA 30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,458.96	2,458.96	209.55
23 82 16 00-0008 EA 30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,781.93	2,781.93	254.14
23 82 16 00-0009 EA 30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,017.41	3,017.41	294.27
23 82 16 00-0010 EA 30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,304.94	3,304.94	519.88
23 82 16 00-0011 EA 34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....1,910.73	1,910.73	197.63
23 82 16 00-0012 EA 34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,544.27	2,544.27	336.51
23 82 16 00-0013 EA 34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,861.06	2,861.06	418.00
23 82 16 00-0014 EA 34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,223.60	3,223.60	504.83
23 82 16 00-0015 EA 34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,560.64	3,560.64	587.87
23 82 16 00-0016 4 Row Chilled Water Cooling Coils (23 82 16 00-0001)		
23 82 16 00-0017 EA 12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....1,041.92	1,041.92	115.92
23 82 16 00-0018 EA 12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....1,655.24	1,655.24	167.20
23 82 16 00-0019 EA 24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,311.68	2,311.68	278.66
23 82 16 00-0020 EA 24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,903.91	2,903.91	413.53
23 82 16 00-0021 EA 30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,388.45	3,388.45	507.17
23 82 16 00-0022 EA 30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....4,045.47	4,045.47	619.75
23 82 16 00-0023 EA 30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....4,563.07	4,563.07	743.47
23 82 16 00-0024 EA 30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....4,608.81	4,608.81	865.42
23 82 16 00-0025 EA 34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....2,717.20	2,717.20	373.53
23 82 16 00-0026 EA 34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,556.17	3,556.17	561.79
23 82 16 00-0027 EA 34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....3,992.09	3,992.09	696.66
23 82 16 00-0028 EA 34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....4,556.84	4,556.84	839.33
23 82 16 00-0029 EA 34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....5,062.71	5,062.71	981.23
23 82 16 00-0030 6 Row Chilled Water Cooling Coils (23 82 16 00-0001)		

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 00-0031 EA 12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,453.90	147.14
23 82 16 00-0032 EA 12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,759.63	218.47
23 82 16 00-0033 EA 24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,470.47	372.30
23 82 16 00-0034 EA 24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,408.82	557.32
23 82 16 00-0035 EA 30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,443.20	696.66
23 82 16 00-0036 EA 30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,115.60	857.17
23 82 16 00-0037 EA 30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,967.20	1,013.22
23 82 16 00-0038 EA 30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,903.70	1,180.75
23 82 16 00-0039 EA 34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,445.48	510.40
23 82 16 00-0040 EA 34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,524.99	765.55
23 82 16 00-0041 EA 34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,196.03	958.60
23 82 16 00-0042 EA 34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,845.32	1,151.55
23 82 16 00-0043 EA 34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,495.18	1,339.70
23 82 16 00-0044 8 Row Chilled Water Cooling Coils (23 82 16 00-0001)		
23 82 16 00-0045 EA 12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,811.32	177.23
23 82 16 00-0046 EA 12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,271.10	271.98
23 82 16 00-0047 EA 24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,465.85	484.88
23 82 16 00-0048 EA 24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,698.02	743.47
23 82 16 00-0049 EA 30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,676.86	929.62
23 82 16 00-0050 EA 30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,628.69	1,114.66
23 82 16 00-0051 EA 30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,578.14	1,238.38
23 82 16 00-0052 EA 30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,857.75	1,436.45
23 82 16 00-0053 EA 34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,971.87	621.98
23 82 16 00-0054 EA 34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,238.33	935.08
23 82 16 00-0055 EA 34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,018.99	1,164.82
23 82 16 00-0056 EA 34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,771.74	1,393.32
23 82 16 00-0057 EA 34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,571.12	1,639.21
23 82 16 00-0058 Direct Expansion Cooling Coils (23 82 16)		
Note: Flanged construction 16 gauge galvanized steel casing.		
23 82 16 00-0059 2 Row Direct Expansion Cooling Coils (23 82 16 00-0058)		
23 82 16 00-0060 EA 12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	712.81	83.60
For 10 Fins Per Inch, Add	10.90	
For 12 Fins Per Inch, Add	27.26	
23 82 16 00-0061 EA 12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,320.23	114.81
For 10 Fins Per Inch, Add	21.81	
For 12 Fins Per Inch, Add	54.52	
23 82 16 00-0062 EA 24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,844.01	180.57
For 10 Fins Per Inch, Add	29.69	
For 12 Fins Per Inch, Add	74.22	
23 82 16 00-0063 EA 24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,272.80	259.71
For 10 Fins Per Inch, Add	35.09	
For 12 Fins Per Inch, Add	87.72	
23 82 16 00-0064 EA 30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,661.21	317.67
For 10 Fins Per Inch, Add	40.49	
For 12 Fins Per Inch, Add	101.21	
23 82 16 00-0065 EA 30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,008.90	384.55
For 10 Fins Per Inch, Add	44.80	
For 12 Fins Per Inch, Add	112.01	
23 82 16 00-0066 EA 30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,455.79	445.86
For 10 Fins Per Inch, Add	51.28	
For 12 Fins Per Inch, Add	128.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 00-0067 EA 30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,289.85	519.88
For 10 Fins Per Inch, Add	65.00	
For 12 Fins Per Inch, Add	162.50	
23 82 16 00-0068 EA 34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,644.78	197.63
For 10 Fins Per Inch, Add	24.99	
For 12 Fins Per Inch, Add	62.48	
23 82 16 00-0069 EA 34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,215.89	336.51
For 10 Fins Per Inch, Add	30.86	
For 12 Fins Per Inch, Add	77.14	
23 82 16 00-0070 EA 34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,835.07	504.83
For 10 Fins Per Inch, Add	36.51	
For 12 Fins Per Inch, Add	91.27	
23 82 16 00-0071 EA 34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,142.06	587.87
For 10 Fins Per Inch, Add	39.33	
For 12 Fins Per Inch, Add	98.31	
23 82 16 00-0072 4 Row Direct Expansion Cooling Coils (23 82 16 00-0058)		
23 82 16 00-0073 EA 12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,157.98	115.92
For 10 Fins Per Inch, Add	18.52	
For 12 Fins Per Inch, Add	46.29	
23 82 16 00-0074 EA 12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,655.24	167.20
For 10 Fins Per Inch, Add	26.45	
For 12 Fins Per Inch, Add	66.13	
23 82 16 00-0075 EA 24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,311.68	278.66
For 10 Fins Per Inch, Add	35.09	
For 12 Fins Per Inch, Add	87.72	
23 82 16 00-0076 EA 24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,903.91	413.53
For 10 Fins Per Inch, Add	41.56	
For 12 Fins Per Inch, Add	103.91	
23 82 16 00-0077 EA 30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,388.45	507.17
For 10 Fins Per Inch, Add	47.50	
For 12 Fins Per Inch, Add	118.76	
23 82 16 00-0078 EA 30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,045.47	619.75
For 10 Fins Per Inch, Add	56.14	
For 12 Fins Per Inch, Add	140.35	
23 82 16 00-0079 EA 30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,563.07	743.47
For 10 Fins Per Inch, Add	61.54	
For 12 Fins Per Inch, Add	153.84	
23 82 16 00-0080 EA 30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,608.81	865.42
For 10 Fins Per Inch, Add	57.56	
For 12 Fins Per Inch, Add	143.90	
23 82 16 00-0081 EA 34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,717.20	373.53
For 10 Fins Per Inch, Add	39.40	
For 12 Fins Per Inch, Add	98.51	
23 82 16 00-0082 EA 34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,556.17	561.79
For 10 Fins Per Inch, Add	48.65	
For 12 Fins Per Inch, Add	121.63	
23 82 16 00-0083 EA 34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,521.02	988.14
For 10 Fins Per Inch, Add	70.89	
For 12 Fins Per Inch, Add	177.23	
23 82 16 00-0084 EA 34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,343.06	1,151.55
For 10 Fins Per Inch, Add	80.80	
For 12 Fins Per Inch, Add	202.00	
23 82 16 00-0085 6 Row Direct Expansion Cooling Coils (23 82 16 00-0058)		
23 82 16 00-0086 EA 12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,480.89	146.02
For 10 Fins Per Inch, Add	23.75	
For 12 Fins Per Inch, Add	59.38	
23 82 16 00-0087 EA 12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,759.63	218.47
For 10 Fins Per Inch, Add	26.45	
For 12 Fins Per Inch, Add	66.13	
23 82 16 00-0088 EA 24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,605.42	372.30
For 10 Fins Per Inch, Add	37.25	
For 12 Fins Per Inch, Add	93.12	
23 82 16 00-0089 EA 24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,408.82	557.32
For 10 Fins Per Inch, Add	45.88	
For 12 Fins Per Inch, Add	114.71	
23 82 16 00-0090 EA 30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,443.20	696.66
For 10 Fins Per Inch, Add	61.00	
For 12 Fins Per Inch, Add	152.49	
23 82 16 00-0091 EA 30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,115.60	857.17
For 10 Fins Per Inch, Add	68.02	
For 12 Fins Per Inch, Add	170.04	
23 82 16 00-0092 EA 30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,967.20	1,013.22
For 10 Fins Per Inch, Add	78.81	
For 12 Fins Per Inch, Add	197.03	
23 82 16 00-0093 EA 30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,903.70	1,180.75
For 10 Fins Per Inch, Add	70.84	
For 12 Fins Per Inch, Add	177.11	
23 82 16 00-0094 EA 34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,445.48	510.40
For 10 Fins Per Inch, Add	48.49	
For 12 Fins Per Inch, Add	121.24	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 00-0095 EA 34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	4,524.99 59.88 149.69	765.55
23 82 16 00-0096 EA 34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	5,826.44 70.85 177.12	1,142.08
23 82 16 00-0097 EA 34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	6,495.18 76.31 190.79	1,339.70
23 82 16 00-0098 8 Row Direct Expansion Cooling Coils (23 82 16 00-0098)		
23 82 16 00-0099 EA 12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	1,838.31 29.69 74.22	176.12
23 82 16 00-0100 EA 12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	2,271.10 34.55 86.37	271.98
23 82 16 00-0101 EA 24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	3,465.85 49.93 124.83	484.88
23 82 16 00-0102 EA 24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	4,698.02 64.24 160.59	743.47
23 82 16 00-0103 EA 30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	5,676.86 76.38 190.96	929.62
23 82 16 00-0104 EA 30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	6,628.69 87.99 219.97	1,114.66
23 82 16 00-0105 EA 30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,578.14 102.02 255.06	1,238.38
23 82 16 00-0106 EA 30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	6,857.75 79.70 199.25	1,436.45
23 82 16 00-0107 EA 34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	3,971.87 54.56 136.39	621.98
23 82 16 00-0108 EA 34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	5,238.33 67.36 168.41	935.08
23 82 16 00-0109 EA 34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	6,799.88 79.70 199.26	1,407.36
23 82 16 00-0110 EA 34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add	7,571.12 85.85 214.64	1,639.21
23 82 16 00-0111 Hot Water Heating Coils (23 82 16) Note: Flanged construction.		
23 82 16 00-0112 1 Row Hot Water Heating Coils (23 82 16 00-0111)		
23 82 16 00-0113 EA 12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	895.04 11.88 29.69 209.13	150.47
23 82 16 00-0114 EA 12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	1,302.02 18.35 45.88 298.84	192.83
23 82 16 00-0115 EA 24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	1,610.39 21.59 53.98 375.16	265.29
23 82 16 00-0116 EA 24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	1,957.65 24.29 60.73 465.84	372.30
23 82 16 00-0117 EA 30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	2,241.23 26.99 67.48 537.42	445.86
23 82 16 00-0118 EA 30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	2,653.09 30.77 76.92 642.08	557.32
23 82 16 00-0119 EA 30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction..... For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	2,965.87 34.55 86.37 717.02	618.63

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 00-0120 EA 30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,633.36	719.29
For 10 Fins Per Inch, Add	43.79	
For 12 Fins Per Inch, Add	109.48	
For 230 PSIG Heavy Duty, Add	871.06	
23 82 16 00-0121 EA 34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction.....	1,568.73	311.65
For 10 Fins Per Inch, Add	18.91	
For 12 Fins Per Inch, Add	47.27	
For 230 PSIG Heavy Duty, Add	376.09	
23 82 16 00-0122 EA 34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,353.08	467.60
For 10 Fins Per Inch, Add	28.36	
For 12 Fins Per Inch, Add	70.90	
For 230 PSIG Heavy Duty, Add	564.13	
23 82 16 00-0123 EA 34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,541.51	707.24
For 10 Fins Per Inch, Add	42.54	
For 12 Fins Per Inch, Add	106.35	
For 230 PSIG Heavy Duty, Add	849.76	
23 82 16 00-0124 EA 34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,120.65	819.61
For 10 Fins Per Inch, Add	49.63	
For 12 Fins Per Inch, Add	124.07	
For 230 PSIG Heavy Duty, Add	988.05	
23 82 16 00-0125 SF >15 SF Hot Water Heating Coil, 1 Row, Flanged Construction.....	191.15	41.24
For 10 Fins Per Inch, Add	2.17	
For 12 Fins Per Inch, Add	5.43	
For 230 PSIG Heavy Duty, Add	46.48	
23 82 16 00-0126 2 Row Hot Water Heating Coils (23 82 16 00-0111)		
23 82 16 00-0127 EA 12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction.....	1,397.18	186.15
For 10 Fins Per Inch, Add	20.51	
For 12 Fins Per Inch, Add	51.28	
For 230 PSIG Heavy Duty, Add	316.59	
23 82 16 00-0128 EA 12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction.....	1,548.01	247.45
For 10 Fins Per Inch, Add	21.05	
For 12 Fins Per Inch, Add	52.63	
For 230 PSIG Heavy Duty, Add	359.14	
23 82 16 00-0129 EA 24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,119.59	372.30
For 10 Fins Per Inch, Add	27.53	
For 12 Fins Per Inch, Add	68.82	
For 230 PSIG Heavy Duty, Add	498.23	
23 82 16 00-0130 EA 24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,627.00	530.57
For 10 Fins Per Inch, Add	31.31	
For 12 Fins Per Inch, Add	78.27	
For 230 PSIG Heavy Duty, Add	631.56	
23 82 16 00-0131 EA 30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,065.72	655.41
For 10 Fins Per Inch, Add	35.09	
For 12 Fins Per Inch, Add	87.72	
For 230 PSIG Heavy Duty, Add	744.28	
23 82 16 00-0132 EA 30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,346.73	795.87
For 10 Fins Per Inch, Add	35.09	
For 12 Fins Per Inch, Add	87.72	
For 230 PSIG Heavy Duty, Add	828.58	
23 82 16 00-0133 EA 30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,801.05	929.62
For 10 Fins Per Inch, Add	38.87	
For 12 Fins Per Inch, Add	97.16	
For 230 PSIG Heavy Duty, Add	945.99	
23 82 16 00-0134 EA 30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,623.39	1,080.10
For 10 Fins Per Inch, Add	49.26	
For 12 Fins Per Inch, Add	123.16	
For 230 PSIG Heavy Duty, Add	1,140.70	
23 82 16 00-0135 EA 34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction.....	1,995.46	466.04
For 10 Fins Per Inch, Add	21.27	
For 12 Fins Per Inch, Add	53.17	
For 230 PSIG Heavy Duty, Add	492.29	
23 82 16 00-0136 EA 34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,995.54	700.12
For 10 Fins Per Inch, Add	31.90	
For 12 Fins Per Inch, Add	79.76	
For 230 PSIG Heavy Duty, Add	739.14	
23 82 16 00-0137 EA 34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,503.91	1,055.58
For 10 Fins Per Inch, Add	47.86	
For 12 Fins Per Inch, Add	119.64	
For 230 PSIG Heavy Duty, Add	1,111.89	
23 82 16 00-0138 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,257.70	1,233.03
For 10 Fins Per Inch, Add	55.83	
For 12 Fins Per Inch, Add	139.58	
For 230 PSIG Heavy Duty, Add	1,298.15	
23 82 16 00-0139 Steam Heating Coils (23 82 16)		
Note: Flanged construction.		
23 82 16 00-0140 EA 12" x 12" Steam Heating Coils, 1 Row Flanged Construction.....	964.07	104.78
For 2 Row Coil, Add	330.89	
For 4 Row Coil, Add	860.85	
23 82 16 00-0141 EA 12" x 24" Steam Heating Coils, 1 Row Flanged Construction.....	1,099.22	144.90
For 2 Row Coil, Add	387.67	
For 4 Row Coil, Add	1,003.87	



Heating, Ventilating, And Air-Conditioning (HVAC)			23
Decentralized Unitary HVAC Equipment			23 80
Convection Heating And Cooling Units			23 82

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 00-0142 EA 24" x 30" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	1,517.07 558.81 1,436.59	259.71
23 82 16 00-0143 EA 24" x 48" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	1,957.65 735.92 1,885.65	372.30
23 82 16 00-0144 EA 30" x 48" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	2,214.24 842.62 2,154.84	445.86
23 82 16 00-0145 EA 30" x 60" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	2,545.13 986.47 2,515.41	557.32
23 82 16 00-0146 EA 30" x 72" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	2,803.92 1,088.88 2,775.69	618.63
23 82 16 00-0147 EA 30" x 84" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	3,428.09 1,317.20 3,363.33	721.96
23 82 16 00-0148 EA 34" x 32" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	1,480.10 568.71 1,452.15	311.65
23 82 16 00-0149 EA 34" x 48" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	2,220.15 853.07 2,178.22	467.60
23 82 16 00-0150 EA 34" x 72" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	3,327.88 1,278.43 3,264.45	700.12
23 82 16 00-0151 EA 34" x 84" Steam Heating Coils, 1 Row Flanged Construction..... For 2 Row Coil, Add For 4 Row Coil, Add	3,888.01 1,494.24 3,815.26	819.61
23 82 16 00-0152 Hot Water Preheat Coils For Multi-Zone Air Handling Units (23 82 16)		
Note: 2 Row coils. Coils are sized by air handling unit capacity.		
23 82 16 00-0153 EA 3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,126.98	141.56
23 82 16 00-0154 EA 4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,407.68	140.44
23 82 16 00-0155 EA 5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,707.44	150.47
23 82 16 00-0156 EA 6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,974.23	163.85
23 82 16 00-0157 EA 7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,989.36	171.65
23 82 16 00-0158 EA 9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,383.82	180.57
23 82 16 00-0159 EA 11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,483.57	202.87
23 82 16 00-0160 EA 13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,749.12	227.38
23 82 16 00-0161 EA 16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,107.79	271.98
23 82 16 00-0162 EA 19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,378.59	285.36
23 82 16 00-0163 EA 22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,273.17	302.07
23 82 16 00-0164 EA 27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,467.96	413.53
23 82 16 00-0165 EA 34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	6,859.37	507.17
23 82 16 00-0166 EA 40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	7,938.25	530.57
23 82 16 00-0167 EA 47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	9,322.03	618.63
23 82 16 00-0168 Standard Electric Slip-In Blast Coil Heater (23 82 16)		
23 82 16 00-0169 Electric Slip-In Blast Coil Heater With Open Coil Element (23 82 16 00-0168)		
23 82 16 00-0170 EA 1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	348.76	81.61
23 82 16 00-0171 EA 1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	362.35	87.96
23 82 16 00-0172 EA 2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	378.40	96.45
23 82 16 00-0173 EA 3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	383.80	99.62
23 82 16 00-0174 EA 4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	397.67	105.98
23 82 16 00-0175 EA 5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	413.63	114.46
23 82 16 00-0176 EA 6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	473.29	128.23
23 82 16 00-0177 EA 7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	486.23	134.60
23 82 16 00-0178 EA 8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	496.81	138.84
23 82 16 00-0179 EA 9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	512.31	147.31
23 82 16 00-0180 EA 10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	556.16	155.79
23 82 16 00-0181 EA 12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	586.33	170.63
23 82 16 00-0182 EA 15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	616.31	185.46
23 82 16 00-0183 EA 20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	646.27	200.30
23 82 16 00-0184 EA 30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	833.23	279.79
23 82 16 00-0185 EA 40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,358.66	297.80
23 82 16 00-0186 EA 50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,502.34	341.25
23 82 16 00-0187 EA 60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,759.11	378.35
23 82 16 00-0188 EA 70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,855.13	411.20
23 82 16 00-0189 EA 80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,032.95	451.47
23 82 16 00-0190 EA 90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,451.52	482.21
23 82 16 00-0191 EA 100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,685.68	518.24
23 82 16 00-0192 EA 125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,216.53	559.58
23 82 16 00-0193 EA 150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,608.61	608.32
23 82 16 00-0194 Electric Slip-In Blast Coil Heater With Finned Tubular Element (23 82 16 00-0168)		
23 82 16 00-0195 EA 1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	836.08	116.58
23 82 16 00-0196 EA 2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	874.87	127.18

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 00-0197 EA 3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	893.82	127.18
23 82 16 00-0198 EA 4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	935.83	139.89
23 82 16 00-0199 EA 5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,252.29	139.89
23 82 16 00-0200 EA 6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,282.61	139.89
23 82 16 00-0201 EA 8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,306.16	155.79
23 82 16 00-0202 EA 9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,335.60	174.87
23 82 16 00-0203 EA 10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,352.65	174.87
23 82 16 00-0204 EA 15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,570.52	200.30
23 82 16 00-0205 EA 20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,866.13	200.30
23 82 16 00-0206 EA 30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,035.98	233.15
23 82 16 00-0207 EA 40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,735.21	233.15

23 82 19 Fan Coil Units (23 82)**23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units (23 82 19)**

Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.

23 82 19 00-0002 Horizontal Fan Coil Units With Electric Heating Coil (23 82 19 00-0001)

23 82 19 00-0003 EA 200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,262.73	180.57
23 82 19 00-0004 EA 300 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,400.36	210.67
23 82 19 00-0005 EA 400 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,554.19	237.42
23 82 19 00-0006 EA 600 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,800.31	271.98
23 82 19 00-0007 EA 800 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,004.91	285.36
For 2-Way Valve Instead Of 3-Way, Deduct	-107.87	
23 82 19 00-0008 EA 1,000 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,664.09	302.07
For 2-Way Valve Instead Of 3-Way, Deduct	-110.19	
23 82 19 00-0009 EA 1,200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,208.11	327.71
For 2-Way Valve Instead Of 3-Way, Deduct	-114.18	

23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0001)

23 82 19 00-0011 EA 200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	757.15	180.57
For 2-Way Valve Instead Of 3-Way, Deduct	-52.98	
23 82 19 00-0012 EA 300 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	915.40	210.67
For 2-Way Valve Instead Of 3-Way, Deduct	-56.03	
23 82 19 00-0013 EA 400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,077.09	237.42
For 2-Way Valve Instead Of 3-Way, Deduct	-58.72	
23 82 19 00-0014 EA 600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,918.11	271.98
For 2-Way Valve Instead Of 3-Way, Deduct	-62.19	
23 82 19 00-0015 EA 800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,142.34	286.46
For 2-Way Valve Instead Of 3-Way, Deduct	-107.87	
23 82 19 00-0016 EA 1,000 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,860.44	302.07
For 2-Way Valve Instead Of 3-Way, Deduct	-110.19	
23 82 19 00-0017 EA 1,200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,581.15	327.71
For 2-Way Valve Instead Of 3-Way, Deduct	-114.18	

23 82 19 00-0018 Floor Mounted Vertical Fan Coil Units (23 82 19)

Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.

23 82 19 00-0019 Vertical Fan Coil Units With Electric Heating Coil (23 82 19 00-0018)

23 82 19 00-0020 EA 200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	1,223.46	179.45
For Fan Coil Units Without Cabinet, Deduct	-147.56	
For Thru-Wall Sleeve, Add	126.91	
For 2-Way Valve Instead Of 3-Way, Deduct	-52.98	
23 82 19 00-0021 EA 300 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	1,402.32	210.67
For Fan Coil Units Without Cabinet, Deduct	-168.29	
For Thru-Wall Sleeve, Add	139.12	
For 2-Way Valve Instead Of 3-Way, Deduct	-56.03	
23 82 19 00-0022 EA 400 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	1,652.36	237.42
For Fan Coil Units Without Cabinet, Deduct	-200.42	
For Thru-Wall Sleeve, Add	149.86	
For 2-Way Valve Instead Of 3-Way, Deduct	-58.72	
23 82 19 00-0023 EA 600 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	1,898.48	271.98
For Fan Coil Units Without Cabinet, Deduct	-230.40	
For Thru-Wall Sleeve, Add	163.75	
For 2-Way Valve Instead Of 3-Way, Deduct	-62.19	
23 82 19 00-0024 EA 800 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,122.71	286.46
For Fan Coil Units Without Cabinet, Deduct	-261.24	
For Thru-Wall Sleeve, Add	169.32	
For 2-Way Valve Instead Of 3-Way, Deduct	-107.87	
23 82 19 00-0025 EA 1,000 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,664.09	302.07
For Fan Coil Units Without Cabinet, Deduct	-339.36	
For Thru-Wall Sleeve, Add	175.50	
For 2-Way Valve Instead Of 3-Way, Deduct	-110.19	
23 82 19 00-0026 EA 1,200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,109.94	327.71
For Fan Coil Units Without Cabinet, Deduct	-400.92	
For Thru-Wall Sleeve, Add	186.14	
For 2-Way Valve Instead Of 3-Way, Deduct	-114.18	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 19 00-0027 Vertical Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0018)		
23 82 19 00-0028 EA 200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 1,341.26	179.45	
For Fan Coil Units Without Cabinet, Deduct	-165.23	
For Thru-Wall Sleeve, Add	126.91	
For 2-Way Valve Instead Of 3-Way, Deduct	-52.98	
23 82 19 00-0029 EA 300 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 1,520.13	210.67	
For Fan Coil Units Without Cabinet, Deduct	-185.96	
For Thru-Wall Sleeve, Add	139.12	
For 2-Way Valve Instead Of 3-Way, Deduct	-56.03	
23 82 19 00-0030 EA 400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 1,848.70	237.42	
For Fan Coil Units Without Cabinet, Deduct	-229.87	
For Thru-Wall Sleeve, Add	149.86	
For 2-Way Valve Instead Of 3-Way, Deduct	-58.72	
23 82 19 00-0031 EA 600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 2,114.45	271.98	
For Fan Coil Units Without Cabinet, Deduct	-262.79	
For Thru-Wall Sleeve, Add	163.75	
For 2-Way Valve Instead Of 3-Way, Deduct	-62.19	
23 82 19 00-0032 EA 800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 2,338.68	286.46	
For Fan Coil Units Without Cabinet, Deduct	-293.64	
For Thru-Wall Sleeve, Add	169.32	
For 2-Way Valve Instead Of 3-Way, Deduct	-107.87	
23 82 19 00-0033 EA 1,000 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 2,762.26	302.07	
For Fan Coil Units Without Cabinet, Deduct	-354.09	
For Thru-Wall Sleeve, Add	175.50	
For 2-Way Valve Instead Of 3-Way, Deduct	-110.19	
23 82 19 00-0034 EA 1,200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet 3,208.11	327.71	
For Fan Coil Units Without Cabinet, Deduct	-415.65	
For Thru-Wall Sleeve, Add	186.14	
For 2-Way Valve Instead Of 3-Way, Deduct	-114.18	
23 82 19 00-0035 Removal And Reinstallation Of Fan Coil Units (23 82 19)		
Note: Includes storage and cleaning. Excludes supports.		
23 82 19 00-0036 EA Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical 473.92		
23 82 29 Radiators (23 82)		
23 82 29 00-0001 Demolish Cast Iron Radiators (23 82 29)		
23 82 29 00-0002 LF Demolish Cast Iron Radiator 33.43		
23 82 29 00-0003 EA Cap Radiator 41.50		
23 82 29 00-0004 Cast Iron Radiator (23 82 29)		
23 82 29 00-0005 EA 19" High Cast Iron Radiator Section, Free Standing 40.10		
For Wall Support Bracket, Add	28.29	
23 82 29 00-0006 EA 25" High Cast Iron Radiator Section, Free Standing 54.97		
For Wall Support Bracket, Add	29.73	
23 82 29 00-0007 EA 30" High Cast Iron Radiator Section, Free Standing 63.32		
23 82 29 00-0008 EA 36" High Cast Iron Radiator Section, Free Standing 78.55		
23 82 29 00-0009 EA 20" High Cast Iron Radiator Section, Recessed With Grille 56.74		
23 82 29 00-0010 Radiator Covers (23 82 29)		
Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides.		
23 82 29 00-0011 SF 14 Gauge Stainless Steel Radiator Cover 71.73	5.76	
23 82 29 00-0012 SF Galvanized Steel Radiator Cover 46.64	5.76	
Note: Primed and painted.		
23 82 29 00-0013 Radiator Shields (23 82 29)		
23 82 29 00-0014 SF Stainless Steel Radiator Shield 49.45	5.76	
23 82 29 00-0015 SF Galvanized Steel Radiator Shield 24.90	5.76	
Note: Primed and painted.		
23 82 29 00-0016 Remove And Reinstall Radiator (23 82 29)		
Note: Includes storage and cleaning.		
23 82 29 00-0017 LF Removal And Reinstallation Of Cast Iron Radiator 83.60		
23 82 29 00-0018 LF Removal And Reinstallation Of Electric Radiator 55.73		
23 82 33 Convectors (23 82)		
23 82 33 00-0001 Multi-Fin Convectors For Two-Pipe System (23 82 33)		
Note: Complete with 6-1/4" deep cabinet enclosure.		
23 82 33 00-0002 20" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0003 EA 20" High x 2' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....407.99		122.61
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	61.73	
For Snap-On Inlet Grille, Add	47.16	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	77.77	
23 82 33 00-0004 EA 20" High x 3' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....474.26		133.76
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	66.80	
For Snap-On Inlet Grille, Add	50.53	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	95.06	
23 82 33 00-0005 EA 20" High x 4' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....548.23		158.28
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	77.88	
For Snap-On Inlet Grille, Add	57.92	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	108.02	
23 82 33 00-0006 EA 20" High x 6' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....653.16		183.92
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	89.59	
For Snap-On Inlet Grille, Add	65.73	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	131.09	
23 82 33 00-0007 EA 20" High x 8' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....779.72		220.70
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	106.30	
For Snap-On Inlet Grille, Add	76.87	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	155.89	
23 82 33 00-0008 EA 20" High x 10' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....873.85		242.77
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	116.32	
For Snap-On Inlet Grille, Add	83.55	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	177.14	
23 82 33 00-0009 EA 20" High x 12' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....1,022.70		294.27
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	139.72	
For Snap-On Inlet Grille, Add	99.14	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	201.94	
23 82 33 00-0010 EA 20" High x 14' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....1,111.32		312.66
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	148.08	
For Snap-On Inlet Grille, Add	104.72	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	223.20	
23 82 33 00-0011 EA 20" High x 16' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....1,217.61		349.44
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	164.78	
For Snap-On Inlet Grille, Add	115.86	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	240.92	
23 82 33 00-0012 EA 20" High x 18' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....1,344.24		386.23
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	181.52	
For Snap-On Inlet Grille, Add	127.01	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	265.71	
23 82 33 00-0013 EA 20" High x 20' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet .....1,450.56		423.01
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	198.23	
For Snap-On Inlet Grille, Add	138.15	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	283.43	

23 82 33 00-0014 26" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0015 EA 26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	488.80 15.00 78.57 58.38 15.00 18.00 86.42	161.29
23 82 33 00-0016 EA 26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	572.70 15.00 90.27 66.18 15.00 18.00 102.13	187.38
23 82 33 00-0017 EA 26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	688.91 15.00 104.93 75.96 15.00 18.00 125.70	220.04
23 82 33 00-0018 EA 26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	800.06 15.00 116.29 83.53 15.00 18.00 151.35	245.34
23 82 33 00-0019 EA 26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	927.67 15.00 130.03 92.69 15.00 18.00 179.98	275.88
23 82 33 00-0020 EA 26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	1,032.36 15.00 140.40 99.60 15.00 18.00 204.52	298.84
23 82 33 00-0021 EA 26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	1,177.47 15.00 159.39 112.26 15.00 18.00 233.16	340.52
23 82 33 00-0022 EA 26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	1,278.42 15.00 168.64 118.43 15.00 18.00 257.70	361.37
23 82 33 00-0023 EA 26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	1,385.10 15.00 183.12 128.08 15.00 18.00 278.15	394.03
23 82 33 00-0024 EA 26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	1,515.66 15.00 197.74 137.83 15.00 18.00 306.78	426.02
23 82 33 00-0025 EA 26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet For Knob Operated Damper, Add For Metal Trim Strips, Add For Snap-On Inlet Grille, Add For Access Doors Hinged, Add For Air Chamber, Auto-vent, Add For 3 Tubes System, Add	1,617.96 15.00 210.90 146.60 15.00 18.00 327.24	455.33

23 82 33 00-0026 32" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0027 EA 32" High x 2' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	568.68	196.18
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	95.13	
For Snap-On Inlet Grille, Add	69.42	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	95.06	
23 82 33 00-0028 EA 32" High x 3' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	680.53	237.42
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	113.87	
For Snap-On Inlet Grille, Add	81.91	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	112.34	
23 82 33 00-0029 EA 32" High x 4' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	815.35	277.55
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	132.09	
For Snap-On Inlet Grille, Add	94.06	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	138.26	
23 82 33 00-0030 EA 32" High x 6' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	932.62	301.62
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	143.09	
For Snap-On Inlet Grille, Add	101.39	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	166.48	
23 82 33 00-0031 EA 32" High x 8' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,059.02	325.93
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	154.01	
For Snap-On Inlet Grille, Add	108.68	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	197.97	
23 82 33 00-0032 EA 32" High x 10' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,172.06	349.44
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	164.78	
For Snap-On Inlet Grille, Add	115.86	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	224.97	
23 82 33 00-0033 EA 32" High x 12' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,306.86	378.87
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	178.23	
For Snap-On Inlet Grille, Add	124.82	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	256.47	
23 82 33 00-0034 EA 32" High x 14' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,421.00	403.17
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	189.33	
For Snap-On Inlet Grille, Add	132.22	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	283.47	
23 82 33 00-0035 EA 32" High x 16' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,525.41	430.37
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	201.37	
For Snap-On Inlet Grille, Add	140.25	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	305.96	
23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,655.46	456.12
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	213.39	
For Snap-On Inlet Grille, Add	148.26	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	337.46	
23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convactor, 2-Pipe System With 6-1/4" Deep Cabinet	1,752.62	478.19
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	223.25	
For Snap-On Inlet Grille, Add	154.84	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	359.95	
23 82 33 00-0038 Electric Convectors, Floor Standing Units (23 82 33)		
23 82 33 00-0039 4" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units.....	523.05	113.96
23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units.....	576.02	113.96

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82**23**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0042 6" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0043 EA 38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units	600.46	113.96
23 82 33 00-0044 EA 50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units	681.95	113.96
23 82 33 00-0045 EA 62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units	753.24	113.96
23 82 33 00-0046 EA 74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units	865.29	113.96
23 82 36 Finned-Tube Radiation Heaters (23 82)		
23 82 36 00-0001 Electric Baseboard Heating (23 82 36)		
Note: Includes 24 gauge steel enclosure and heating element		
23 82 36 00-0002 Electric Wall Heating 10" Enclosure (23 82 36 00-0001)		
23 82 36 00-0003 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element <250 Watts/FT	131.10	63.32
23 82 36 00-0004 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element >= 250 Watts/FT	133.54	63.32
23 82 36 00-0005 Electric Wall Heating 16" Enclosure (23 82 36 00-0001)		
23 82 36 00-0006 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element <350 Watts/FT	155.54	63.32
23 82 36 00-0007 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element >= 350 Watts/FT	161.65	63.32
23 82 36 00-0008 Finned Tube Baseboard Units (23 82 36)		
Note: Complete with steel enclosure. Single heating element.		
23 82 36 00-0009 3/4" IPS Steel Tube With Steel Fins (23 82 36 00-0008)		
23 82 36 00-0010 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	296.73	43.48
For 90 Degree Corner, Add	52.06	
For Valve Enclosure, Add	52.06	
For Filler Piece, Add	45.06	
For End Cap, Add	35.34	
For Copper Tube With Aluminum Fins, Add	4.75	
23 82 36 00-0011 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	382.95	65.76
For 90 Degree Corner, Add	60.67	
For Valve Enclosure, Add	60.67	
For Filler Piece, Add	53.67	
For End Cap, Add	40.93	
For Copper Tube With Aluminum Fins, Add	7.13	
23 82 36 00-0012 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	451.48	86.94
For 90 Degree Corner, Add	65.73	
For Valve Enclosure, Add	65.73	
For Filler Piece, Add	58.73	
For End Cap, Add	44.23	
For Copper Tube With Aluminum Fins, Add	9.51	
23 82 36 00-0013 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	562.66	121.72
For 90 Degree Corner, Add	79.55	
For Valve Enclosure, Add	79.55	
For Filler Piece, Add	72.55	
For End Cap, Add	53.21	
For Copper Tube With Aluminum Fins, Add	11.82	
23 82 36 00-0014 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	673.81	146.24
For 90 Degree Corner, Add	93.60	
For Valve Enclosure, Add	93.60	
For Filler Piece, Add	86.60	
For End Cap, Add	62.34	
For Copper Tube With Aluminum Fins, Add	14.07	
23 82 36 00-0015 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	752.85	156.05
For 90 Degree Corner, Add	99.17	
For Valve Enclosure, Add	99.17	
For Filler Piece, Add	92.17	
For End Cap, Add	65.96	
For Copper Tube With Aluminum Fins, Add	16.88	
23 82 36 00-0016 EA 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	830.38	172.44
For 90 Degree Corner, Add	108.54	
For Valve Enclosure, Add	108.54	
For Filler Piece, Add	101.54	
For End Cap, Add	72.05	
For Copper Tube With Aluminum Fins, Add	18.57	
23 82 36 00-0017 EA 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	946.18	195.07
For 90 Degree Corner, Add	121.46	
For Valve Enclosure, Add	121.46	
For Filler Piece, Add	114.46	
For End Cap, Add	80.45	
For Copper Tube With Aluminum Fins, Add	21.39	
23 82 36 00-0018 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,042.91	214.57
For 90 Degree Corner, Add	132.62	
For Valve Enclosure, Add	132.62	
For Filler Piece, Add	125.62	
For End Cap, Add	87.71	
For Copper Tube With Aluminum Fins, Add	23.64	
23 82 36 00-0019 1" IPS Steel Tube With Steel Fins (23 82 36 00-0008)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0020 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	333.77	43.48
For 90 Degree Corner, Add	52.06	
For Valve Enclosure, Add	52.06	
For Filler Piece, Add	45.06	
For End Cap, Add	35.34	
For Copper Tube With Aluminum Fins, Add	6.79	
23 82 36 00-0021 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	438.50	65.76
For 90 Degree Corner, Add	60.67	
For Valve Enclosure, Add	60.67	
For Filler Piece, Add	53.67	
For End Cap, Add	40.93	
For Copper Tube With Aluminum Fins, Add	10.18	
23 82 36 00-0022 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	525.56	86.94
For 90 Degree Corner, Add	65.73	
For Valve Enclosure, Add	65.73	
For Filler Piece, Add	58.73	
For End Cap, Add	44.23	
For Copper Tube With Aluminum Fins, Add	13.58	
23 82 36 00-0023 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	654.89	121.72
For 90 Degree Corner, Add	79.58	
For Valve Enclosure, Add	79.58	
For Filler Piece, Add	72.58	
For End Cap, Add	53.23	
For Copper Tube With Aluminum Fins, Add	16.89	
23 82 36 00-0024 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	783.26	146.24
For 90 Degree Corner, Add	93.56	
For Valve Enclosure, Add	93.56	
For Filler Piece, Add	86.56	
For End Cap, Add	62.31	
For Copper Tube With Aluminum Fins, Add	20.10	
23 82 36 00-0025 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	884.43	156.05
For 90 Degree Corner, Add	99.17	
For Valve Enclosure, Add	99.17	
For Filler Piece, Add	92.17	
For End Cap, Add	65.96	
For Copper Tube With Aluminum Fins, Add	24.12	
23 82 36 00-0026 EA 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	974.76	172.44
For 90 Degree Corner, Add	108.47	
For Valve Enclosure, Add	108.47	
For Filler Piece, Add	101.47	
For End Cap, Add	72.00	
For Copper Tube With Aluminum Fins, Add	26.53	
23 82 36 00-0027 EA 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,112.84	195.07
For 90 Degree Corner, Add	121.46	
For Valve Enclosure, Add	121.46	
For Filler Piece, Add	114.46	
For End Cap, Add	80.45	
For Copper Tube With Aluminum Fins, Add	30.55	
23 82 36 00-0028 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,226.45	214.57
For 90 Degree Corner, Add	132.49	
For Valve Enclosure, Add	132.49	
For Filler Piece, Add	125.49	
For End Cap, Add	87.62	
For Copper Tube With Aluminum Fins, Add	33.77	
23 82 36 00-0029 1-1/4" IPS Steel Tube With Steel Fins (23 82 36 00-0008)		
23 82 36 00-0030 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	370.80	43.48
For 90 Degree Corner, Add	52.06	
For Valve Enclosure, Add	52.06	
For Filler Piece, Add	45.06	
For End Cap, Add	35.34	
For Copper Tube With Aluminum Fins, Add	8.83	
23 82 36 00-0031 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	494.06	65.76
For 90 Degree Corner, Add	60.67	
For Valve Enclosure, Add	60.67	
For Filler Piece, Add	53.67	
For End Cap, Add	40.93	
For Copper Tube With Aluminum Fins, Add	13.24	
23 82 36 00-0032 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	599.63	86.94
For 90 Degree Corner, Add	65.73	
For Valve Enclosure, Add	65.73	
For Filler Piece, Add	58.73	
For End Cap, Add	44.23	
For Copper Tube With Aluminum Fins, Add	17.65	
23 82 36 00-0033 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	746.99	121.72
For 90 Degree Corner, Add	79.58	
For Valve Enclosure, Add	79.58	
For Filler Piece, Add	72.58	
For End Cap, Add	53.23	
For Copper Tube With Aluminum Fins, Add	21.95	

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82**23**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0034	EA	12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	892.91	146.24
		For 90 Degree Corner, Add	93.56	
		For Valve Enclosure, Add	93.56	
		For Filler Piece, Add	86.56	
		For End Cap, Add	62.31	
		For Copper Tube With Aluminum Fins, Add	26.13	
23 82 36 00-0035	EA	14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,016.00	156.05
		For 90 Degree Corner, Add	99.17	
		For Valve Enclosure, Add	99.17	
		For Filler Piece, Add	92.17	
		For End Cap, Add	65.96	
		For Copper Tube With Aluminum Fins, Add	31.36	
23 82 36 00-0036	EA	16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,119.48	172.44
		For 90 Degree Corner, Add	108.47	
		For Valve Enclosure, Add	108.47	
		For Filler Piece, Add	101.47	
		For End Cap, Add	72.00	
		For Copper Tube With Aluminum Fins, Add	34.49	
23 82 36 00-0037	EA	18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,279.50	195.07
		For 90 Degree Corner, Add	121.46	
		For Valve Enclosure, Add	121.46	
		For Filler Piece, Add	114.46	
		For End Cap, Add	80.45	
		For Copper Tube With Aluminum Fins, Add	39.72	
23 82 36 00-0038	EA	20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,410.65	214.57
		For 90 Degree Corner, Add	132.49	
		For Valve Enclosure, Add	132.49	
		For Filler Piece, Add	125.49	
		For End Cap, Add	87.62	
		For Copper Tube With Aluminum Fins, Add	43.90	
23 82 39 Unit Heaters (23 82)				
23 82 39 13 Cabinet Unit Heaters (23 82 39)				
23 82 39 13-0001		Electric Cabinet Unit Heaters (23 82 39 13)		
		Note: Can be mounted on the ceiling, floor or wall. Includes built-in thermostat. 208, 240/208, 277, or 480 Volt.		
23 82 39 13-0002		Electric Cabinet Unit Heaters, 35" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0003	EA	2 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,514.41	143.89
		Note: Wall or floor mounted.		
23 82 39 13-0004	EA	3 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,533.95	143.89
		Note: Wall or floor mounted.		
23 82 39 13-0005	EA	4 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,553.49	143.89
		Note: Wall or floor mounted.		
23 82 39 13-0006	EA	5 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,573.02	143.89
		Note: Wall or floor mounted.		
23 82 39 13-0007	EA	6 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,592.56	143.89
		Note: Wall or floor mounted.		
23 82 39 13-0008	EA	7 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,612.11	143.89
		Note: Wall or floor mounted.		
23 82 39 13-0009	EA	8 KW, 250 CFM, 35" Electric Cabinet Unit Heater.....	2,632.42	143.89
23 82 39 13-0010	EA	For Ceiling Installation of 35" Cabinet Unit Heater, Add	192.24	95.55
23 82 39 13-0011		Electric Cabinet Unit Heaters, 45" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0012	EA	4 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,677.47	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0013	EA	6 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,716.56	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0014	EA	8 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,755.63	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0015	EA	10 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,794.71	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0016	EA	12 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,833.78	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0017	EA	14 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,872.87	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0018	EA	16 KW, 500 CFM, 45" Electric Cabinet Unit Heater.....	2,911.94	172.67
		Note: Wall or floor mounted.		
23 82 39 13-0019	EA	For Ceiling Installation of 45" Cabinet Unit Heater, Add	230.23	115.11
23 82 39 13-0020		Electric Cabinet Unit Heaters, 58" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0021	EA	6 KW, 750 CFM, 58" Electric Cabinet Unit Heater.....	3,365.47	230.23
		Note: Wall or floor mounted.		
23 82 39 13-0022	EA	8 KW, 750 CFM, 58" Electric Cabinet Unit Heater.....	3,404.54	230.23
		Note: Wall or floor mounted.		
23 82 39 13-0023	EA	10 KW, 750 CFM, 58" Electric Cabinet Unit Heater.....	3,443.62	230.23
		Note: Wall or floor mounted.		
23 82 39 13-0024	EA	12 KW, 750 CFM, 58" Electric Cabinet Unit Heater.....	3,482.69	230.23
		Note: Wall or floor mounted.		
23 82 39 13-0025	EA	14 KW, 750 CFM, 58" Electric Cabinet Unit Heater.....	3,521.78	230.23
		Note: Wall or floor mounted.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 13-0026 EA 16 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,560.85	230.23
23 82 39 13-0027 EA For Ceiling Installation of 58" Cabinet Unit Heater, Add.....	287.77	143.89
23 82 39 13-0028 Electric Cabinet Unit Heaters, 68" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0029 EA 6 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,975.32	287.77
23 82 39 13-0030 EA 9 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,033.93	287.77
23 82 39 13-0031 EA 12 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,092.54	287.77
23 82 39 13-0032 EA 15 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,151.15	287.77
23 82 39 13-0033 EA 18 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,209.78	287.77
23 82 39 13-0034 EA 21 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,268.39	287.77
23 82 39 13-0035 EA 24 KW, 750 CFM, 68" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,327.01	287.77
23 82 39 13-0036 EA For Ceiling Installation of 68" Cabinet Unit Heater, Add.....	384.48	192.24
23 82 39 13-0037 Electric Cabinet Unit Heaters, 78" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0038 EA 8 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,663.29	345.33
23 82 39 13-0039 EA 12 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,741.45	345.33
23 82 39 13-0040 EA 16 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,819.61	345.33
23 82 39 13-0041 EA 20 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,897.76	345.33
23 82 39 13-0042 EA 24 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	4,975.92	345.33
23 82 39 13-0043 EA 28 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,054.07	345.33
23 82 39 13-0044 EA 32 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater Note: Wall or floor mounted.	5,132.23	345.33
23 82 39 13-0045 EA For Ceiling Installation of 78" Cabinet Unit Heater, Add.....	460.44	230.23
23 82 39 13-0046 Removal and Reinstallation of Cabinet Unit Heaters (23 82 39 13)		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 13-0047 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Floor or Wall.....	306.53	
23 82 39 13-0048 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Floor or Wall	529.48	
23 82 39 13-0049 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Ceiling	632.01	
23 82 39 13-0050 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Ceiling	854.94	
23 82 39 16 Propeller Unit Heaters (23 82 39)		
23 82 39 16-0001 Hydronic Unit Heaters Using Steam Or Hot Water (23 82 39 16)		
Note: For use with either steam or heating hot water. Heating output capacities for both are listed.		
23 82 39 16-0002 Horizontal Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)		
23 82 39 16-0003 EA 18 MBH Steam, 13 MBH Hot Water, 395 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	655.60	111.46
23 82 39 16-0004 EA 24 MBH Steam, 17.4 MBH Hot Water, 450 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	656.78	111.46
23 82 39 16-0005 EA 36 MBH Steam, 26.1 MBH Hot Water, 550 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	724.62	111.46
23 82 39 16-0006 EA 48 MBH Steam, 34.8 MBH Hot Water, 750 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	906.70	167.20
23 82 39 16-0007 EA 60 MBH Steam, 43.6 MBH Hot Water, 900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	941.41	167.20
23 82 39 16-0008 EA 72 MBH Steam, 52.3 MBH Hot Water, 1,100 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	993.09	167.20
23 82 39 16-0009 EA 84 MBH Steam, 61 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,206.29	222.93
23 82 39 16-0010 EA 96 MBH Steam, 69.7 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,310.41	222.93
23 82 39 16-0011 EA 108 MBH Steam, 78.4 MBH Hot Water, 2,800 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,376.67	222.93
23 82 39 16-0012 EA 120 MBH Steam, 87.1 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,430.31	222.93
23 82 39 16-0013 EA 132 MBH Steam, 95.8 MBH Hot Water, 2,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,631.70	278.66
23 82 39 16-0014 EA 144 MBH Steam, 104 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,649.85	278.66
23 82 39 16-0015 EA 156 MBH Steam, 113 MBH Hot Water, 2,600 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,667.21	278.66
23 82 39 16-0016 EA 180 MBH Steam, 118 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,799.92	334.39
23 82 39 16-0017 EA 204 MBH Steam, 148 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,935.59	334.39
23 82 39 16-0018 EA 240 MBH Steam, 174 MBH Hot Water, 3,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,213.66	390.13
23 82 39 16-0019 EA 280 MBH Steam, 209.1 MBH Hot Water, 4,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,705.09	390.13
23 82 39 16-0020 EA 300 MBH Steam, 230 MBH Hot Water, 5,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,896.92	445.86
23 82 39 16-0021 EA 360 MBH Steam, 261.3 MBH Hot Water, 5,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,401.77	445.86
23 82 39 16-0022 EA Fan Guard For Fan Propelled Steam Unit Heater, Horizontal.....	176.01	27.87
Note: Required only for unit heaters located within 7" of a working surface.		
23 82 39 16-0023 Vertical Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)		
23 82 39 16-0024 EA 41.3 MBH Steam, 22.7 MBH Hot Water, 595 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	953.25	111.46
23 82 39 16-0025 EA 65.5 MBH Steam, 39.6 MBH Hot Water, 989 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	990.71	167.20

**Heating, Ventilating, And Air-Conditioning (HVAC)****23**

Decentralized Unitary HVAC Equipment

23 80

Convection Heating And Cooling Units

23 82

23

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 16-0026	EA 80.6 MBH Steam, 48.4 MBH Hot Water, 1,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,058.95	167.20
23 82 39 16-0027	EA 101.8 MBH Steam, 68.3 MBH Hot Water, 1,490 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,312.79	222.93
23 82 39 16-0028	EA 124.4 MBH Steam, 83.7 MBH Hot Water, 1,790 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,379.83	222.93
23 82 39 16-0029	EA 152 MBH Steam, 105.2 MBH Hot Water, 2,220 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,678.44	334.39
23 82 39 16-0030	EA 173 MBH Steam, 118.6 MBH Hot Water, 2,620 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,780.98	334.39
23 82 39 16-0031	EA 210.2 MBH Steam, 139.7 MBH Hot Water, 3,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,866.97	334.39
23 82 39 16-0032	EA 249.8 MBH Steam, 180.1 MBH Hot Water, 4,180 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,096.12	390.13
23 82 39 16-0033	EA 283.8 MBH Steam, 205.4 MBH Hot Water, 4,430 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,197.89	390.13
23 82 39 16-0034	EA 333.4 MBH Steam, 242.9 MBH Hot Water, 5,210 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,403.76	390.13
23 82 39 16-0035	EA 386 MBH Steam, 280.8 MBH Hot Water, 6,140 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,814.33	501.59
23 82 39 16-0036	EA 496 MBH Steam, 368.1 MBH Hot Water, 8,020 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,499.03	501.59
23 82 39 16-0037	EA 585 MBH Steam, 431.1 MBH Hot Water, 9,450 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,708.86	501.59
23 82 39 16-0038	EA 705 MBH Steam, 519.4 MBH Hot Water, 11,000 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,213.16	557.32
23 82 39 16-0039	EA Fan Guard For Fan Propelled Steam Unit Heater, Vertical.....	234.39	27.87
Note: Required only for unit heaters located within 7' of a working surface.			
23 82 39 16-0040	Removal and Reinstallation of Propeller Unit Heaters (23 82 39 16)		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.			
23 82 39 16-0041	EA Removal And Reinstallation Of Up To 120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical	668.79	
23 82 39 16-0042	EA Removal And Reinstallation Of >120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical	891.73	
23 82 39 19	Wall and Ceiling Unit Heaters (23 82 39)		
23 82 39 19-0001	Electric Unit Heaters (23 82 39 19)		
Note: May be mounted both vertically and horizontally.			
23 82 39 19-0002	EA 3 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	751.81	115.11
23 82 39 19-0003	EA 5 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	751.81	115.11
23 82 39 19-0004	EA 7.5 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,005.70	143.89
23 82 39 19-0005	EA 10 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,155.47	172.67
23 82 39 19-0006	EA 15 KW, 910 CFM Electric Unit Heater, 208, 240/208, or 277 Volt	1,680.37	230.23
23 82 39 19-0007	EA 20 KW, 1,320 CFM Electric Unit Heater, 208, 240/208, 277, or 480 Volt	2,435.41	287.77
23 82 39 19-0008	EA 30 KW, 2,100 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	3,348.06	345.33
23 82 39 19-0009	EA 50 KW, 3,000 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	4,867.59	402.89
23 82 39 19-0010	EA 3 KW, 350 CFM Electric Unit Heater - 480 Volt	921.37	115.11
23 82 39 19-0011	EA 5 KW, 350 CFM Electric Unit Heater - 480 Volt	888.27	115.11
23 82 39 19-0012	EA 7.5 KW, 650 CFM Electric Unit Heater - 480 Volt	1,054.17	143.89
23 82 39 19-0013	EA 10 KW, 650 CFM Electric Unit Heater - 480 Volt	1,218.51	172.67
23 82 39 19-0014	EA 15 KW, 910 CFM Electric Unit Heater - 480 Volt	1,806.47	230.23
23 82 39 19-0015	Electric Ceiling and Wall Heaters (23 82 39 19)		
Note: The "/" between wattages indicates two or three speed operation. 120, 240/208 or 277 Volt.			
23 82 39 19-0016	EA 1,000, 1,500 Or 2,000 Watt Recessed Electric Wall Heater	307.09	65.62
23 82 39 19-0017	EA 1,500/750 Or 2,000/1,000 Watt Recessed Electric Wall Heater	347.28	80.58
23 82 39 19-0018	EA 3,000, 3,600, 4,000 Or 4,800 Watt Recessed Electric Wall Heater	530.17	80.58
23 82 39 19-0019	EA 1,000, 1,500 Or 2,000 Watt Surface Mounted Electric Wall Heater	342.65	71.95
23 82 39 19-0020	EA 1,500/750 Or 2,000/1,000 Watt Surface Mounted Electric Wall Heater	413.18	80.58
23 82 39 19-0021	EA 3,000, 3,600, 4,000 Or 4,800 Watt Surface Mounted Electric Wall Heater	596.07	80.58
23 82 39 19-0022	EA 1,000, 1,500 Or 2,000/1,500 Watt Recessed Electric Ceiling Heater	450.85	94.96
23 82 39 19-0023	EA 3,000, 4,000 Or 4,000/3,000 Watt Recessed Electric Ceiling Heater	792.92	100.72
23 82 39 19-0024	EA 4,800/3,600 Watt Recessed Electric Ceiling Heater	884.39	100.72
23 82 39 19-0025	EA 4,000/3,000/2,000 Watt Recessed Or Surface Mounted Electric Ceiling Heater	1,020.10	106.48
23 82 39 19-0026	EA 5,000/3,800/2,500 Watt Recessed Or Surface Mounted Electric Ceiling Heater	1,100.42	106.48
23 82 39 19-0027	EA 1,000, 1,500 Or 2,000/1,500 Watt Surface Mounted Electric Ceiling Heater	498.37	94.96
23 82 39 19-0028	EA 3,000, 4,000 Or 4,000/3,000 Watt Surface Mounted Electric Ceiling Heater	867.76	100.72
23 82 39 19-0029	EA 4,800/3,600 Watt Surface Mounted Electric Ceiling Heater	959.24	100.72
23 82 39 19-0030	Removal And Reinstallation Of Electric Unit Heaters (23 82 39 19)		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.			
23 82 39 19-0031	EA Removal And Reinstallation Of Up To 15KW Electric Unit Heater.....	401.30	
23 82 39 19-0032	EA Removal And Reinstallation Of >15 KW Electric Unit Heater	824.94	
23 83	Radiant Heating Units (23 80)		
23 83 13	Radiant-Heating Electric Cables (23 83)		
23 83 13 00-0001	Self Regulating Heating Cable (23 83 13)		
23 83 13 00-0002	LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable	5.72	0.72
Note: Tinned copper braid, @ 50° F.			
For TPE Covering, Add		1.07	
23 83 13 00-0003	LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable	6.25	0.72
Note: Tinned copper braid, @ 50° F.			
For TPE Covering, Add		1.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 83 Radiant Heating Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 83 13 00-0004 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable..... Note: Tinned copper braid, @ 50° F.	6.71	0.72
For TPE Covering, Add	1.32	
23 83 13 00-0005 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable..... Note: Tinned copper braid, @ 50° F.	5.88	0.72
For TPE Covering, Add	1.11	
23 83 13 00-0006 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable..... Note: Tinned copper braid, @ 50° F.	6.39	0.72
For TPE Covering, Add	1.24	
23 83 13 00-0007 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable..... Note: Tinned copper braid, @ 50° F.	6.92	0.72
For TPE Covering, Add	1.37	
23 83 13 00-0008 EA Power Connection Kit Note: Includes pre-set thermostat.	209.75	57.15
23 83 13 00-0009 EA Splice And Tee Kit	209.75	57.15
23 83 13 00-0010 EA End Seal Kit	116.24	10.39
23 83 13 00-0011 EA Ambient Air Sensing Thermostat	313.44	25.97
23 83 13 00-0012 EA Line Sensing Thermostat	343.15	25.97
Note: Mechanical or electronic.		

23 84 Humidity Control Equipment (23 80)**23 84 13 Humidifiers (23 84)****23 84 13 00-0001 Steam Type Pneumatically Controlled (23 84 13)**

Note: For duct or air handling installation standard unit with integral operator distribution manifold strainer trap and pneumatic modulating valve. Excludes humidistat and piping.

23 84 13 00-0002 EA 3-191 LB/Hour Steam Humidifier, 24" Manifold, Pneumatic Controls	1,254.48	294.27
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	391.21	
23 84 13 00-0003 EA 3-191 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls	1,254.48	294.27
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	391.21	
23 84 13 00-0004 EA 65-334 LB/Hour Steam Humidifier, 36" Manifold, Pneumatic Controls	1,714.20	294.27
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	529.12	
23 84 13 00-0005 EA 65-334 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls	1,825.66	367.84
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	566.28	
23 84 13 00-0006 EA 100-690 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls	2,470.12	294.27
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	755.90	
23 84 13 00-0007 EA 100-690 LB/Hour Steam Humidifier, 84" Manifold, Pneumatic Controls	2,581.58	367.84
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	793.05	
23 84 13 00-0008 EA 220-2,000 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls	3,762.71	367.84
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	1,147.39	
23 84 13 00-0009 EA 220-2,000 LB/Hour Steam Humidifier, 144" Manifold, Pneumatic Controls	3,902.05	460.35
For Electrically Controlled Unit, Add	700.00	
For Each Additional Manifold, Add	1,193.84	

23 84 13 00-0010 Electric Steam Humidifiers, Self-Steam Producing (23 84 13)

Note: Electronic modulating duct or air handling unit installation 208V-108V with 12"-72" manifolds included.

23 84 13 00-0011 EA 1-96 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	6,835.59	459.24
23 84 13 00-0012 EA 20-168 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	8,582.93	460.35

23 84 13 00-0013 Residential Humidifiers (23 84 13)

Note: Includes solenoid valve and flow through water supply.

23 84 13 00-0014 EA Duct Or Furnace Mounted Humidifier, Residential Type.....	404.64	55.73
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23 84 16 Mechanical Dehumidification Units (23 84)**23 84 16 16 Indoor, Mechanical Dehumidification Units (23 84 16)****23 84 16 16-0001 Mechanical Dehumidification Units (23 84 16 16)**

Note: Sized by moisture removal per 24 hours.

23 84 16 16-0002 EA 65 Pint Per Day, 160 CFM, 8" Duct Connection, Refrigerant Dehumidifier.....	1,238.28	57.56
23 84 16 16-0003 EA 90 Pint Per Day, 235 CFM, 10"6" Duct Connection, Refrigerant Dehumidifier.....	1,551.08	67.14
23 84 16 16-0004 EA 120 Pint Per Day, 350 CFM, 10"6" Duct Connection, Refrigerant Dehumidifier.....	2,061.89	76.74

23 84 16 33 Portable Dehumidifiers (23 84 16)**23 84 16 33-0001 Self Contained Free Standing Unit (23 84 16 33)**

Note: Sized by moisture removal per 24 hours.

23 84 16 33-0002 EA 12 Pint/24 Hour Dehumidifier.....	515.82	124.34
23 84 16 33-0003 EA 15 Pint/24 Hour Dehumidifier.....	552.16	124.34
23 84 16 33-0004 EA 20 Pint/24 Hour Dehumidifier.....	617.58	124.34
23 84 16 33-0005 EA 30 Pint/24 Hour Dehumidifier.....	697.53	124.34



Heating, Ventilating, And Air-Conditioning (HVAC)		23	23
Decentralized Unitary HVAC Equipment		23 80	
Humidity Control Equipment		23 84	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 84 16 33-0006 EA 40 Pint/24 Hour Dehumidifier.....	733.87	124.34
23 84 16 33-0007 EA 65 Pint/24 Hour Dehumidifier.....	804.46	124.34

END OF SECTION 23

23	23	Heating, Ventilating, And Air-Conditioning (HVAC)
	23 80	Decentralized Unitary HVAC Equipment
	23 84	Humidity Control Equipment



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation And Maintenance Of Medium-Voltage Electrical Distribution		26 01 10

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.	
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C) Note: 2mm thick, aluminum frame, hinged cover.	299.31
	For Up To 20, Add	58.90
	For >20 To 50, Add	47.12
	For >50 To 100, Add	23.56
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C) Note: 2mm thick, aluminum frame, hinged cover.	383.75
	For Up To 20, Add	80.01
	For >20 To 50, Add	64.01
	For >50 To 100, Add	32.00
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C) Note: 4mm thick, aluminum frame, hinged cover.	569.52
	For Up To 20, Add	126.45
	For >20 To 50, Add	101.16
	For >50 To 100, Add	50.58
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO) Note: 2mm thick, aluminum frame, twist cover.	296.90
	For Up To 20, Add	58.30
	For >20 To 50, Add	46.64
	For >50 To 100, Add	23.32
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2) Note: 2mm thick, aluminum frame, twist cover.	298.39
	For Up To 20, Add	58.67
	For >20 To 50, Add	46.93
	For >50 To 100, Add	23.47
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3) Note: 2mm thick, aluminum frame, twist cover.	376.87
	For Up To 20, Add	78.29
	For >20 To 50, Add	62.63
	For >50 To 100, Add	31.32
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4) Note: 4mm thick, aluminum frame, twist cover.	554.25
	For Up To 20, Add	122.63
	For >20 To 50, Add	98.11
	For >50 To 100, Add	49.05
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPF) Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	238.51
	For Up To 20, Add	43.70
	For >20 To 50, Add	34.96
	For >50 To 100, Add	17.48
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPF) Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	329.71
	For Up To 20, Add	66.50
	For >20 To 50, Add	53.20
	For >50 To 100, Add	26.60
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPF) Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	462.70
	For Up To 20, Add	99.75
	For >20 To 50, Add	79.80
	For >50 To 100, Add	39.90
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover.	423.24
	For Up To 20, Add	89.88
	For >20 To 50, Add	71.90
	For >50 To 100, Add	35.95
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) Note: 4mm thick, aluminum frame, magnetic cover.	575.81
	For Up To 20, Add	128.02
	For >20 To 50, Add	102.42
	For >50 To 100, Add	51.21

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,041.83	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	244.53	
		For >20 To 50, Add	195.62	
		For >50 To 100, Add	97.81	
26 01 10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	483.88	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	105.04	
		For >20 To 50, Add	84.03	
		For >50 To 100, Add	42.02	
26 01 10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	704.80	
		Note: 4mm thick, aluminum frame, magnetic cover.		
		For Up To 20, Add	160.27	
		For >20 To 50, Add	128.22	
		For >50 To 100, Add	64.11	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001		Lock Out/Tag Out Devices (26 01 20 91)		
		Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002	EA	Lock Out/Tag Out Local Disconnect	25.97	
26 01 20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter	25.97	
26 01 20 91-0004	EA	Lock Out/Tag Out Tags.....	2.93	
26 01 20 91-0005		Existing Circuit Tracing (26 01 20 91)		
26 01 20 91-0006	EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	21.62	
26 01 20 91-0007	EA	Lighting, Existing Circuit Tracing Per Circuit.....	21.62	

26 01 30 Operation And Maintenance Of Facility Electrical Power Generating And Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating And Storing Equipment Restoration (26 01 30)

26 01 30 91-0001		Emergency Generator Permits (26 01 30 91)		
26 01 30 91-0002		Air Pollution Control Board (26 01 30 91-0001)		
26 01 30 91-0003	EA	APCD Permit To Construct And Operate Emergency Generator.....	2,452.66	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001		Replace Lamps In Existing Fixtures (26 01 50 51)		
		Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0142 for disposal of hazardous lamps.		
26 01 50 51-0002		Halogen Lamps (26 01 50 51-0001)		
26 01 50 51-0003	EA	300 Watt, T3, Tungsten Halogen Lamp	41.03	
26 01 50 51-0004	EA	500 Watt, T3, Tungsten Halogen Lamp	54.21	
26 01 50 51-0005	EA	1,000 Watt, T3, Tungsten Halogen Lamp	82.75	
26 01 50 51-0006	EA	60 Watt, PAR38, Halogen Lamp	17.52	
26 01 50 51-0007	EA	75 Watt, PAR38, Halogen Lamp	17.52	
26 01 50 51-0008	EA	90 Watt, PAR38, Halogen Lamp	16.35	
26 01 50 51-0009	EA	100 Watt, PAR38, Halogen Lamp	16.35	
26 01 50 51-0010	EA	60-67 Watt, PAR38, Halogen IR Reflective Lamp.....	26.34	
26 01 50 51-0011	EA	70 Watt, PAR38, Halogen IR Reflective Lamp	25.16	
26 01 50 51-0012	EA	90 Watt, PAR38, Halogen IR Reflective Lamp	31.03	
26 01 50 51-0013	EA	100 Watt, PAR38, Halogen IR Reflective Lamp.....	31.35	
26 01 50 51-0014		Incandescent Lamps (26 01 50 51-0001)		
26 01 50 51-0015	EA	100 Watt, Frosted, Interior Incandescent Lamp	3.84	
		For Multiple Lamps In Fixture, Deduct	-1.04	
26 01 50 51-0016	EA	150 Watt, Frosted, Interior Incandescent Lamp	5.35	
		For Multiple Lamps In Fixture, Deduct	-1.04	
26 01 50 51-0017	EA	200 Watt, Frosted, Interior Incandescent Lamp	7.03	
		For Multiple Lamps In Fixture, Deduct	-1.04	
26 01 50 51-0018	EA	300 Watt, PS25, Interior Incandescent Lamp	9.13	
		For Multiple Lamps In Fixture, Deduct	-1.04	



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0019	EA	60 Watt, G25, Clear, Interior Incandescent Lamp.....	6.30	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.04	
26 01 50 51-0020	EA	75 Watt, R20, Interior Incandescent Lamp.....	10.80	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.24	
26 01 50 51-0021	EA	75 Watt, PAR38, Exterior Incandescent Lamp.....	13.75	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.24	
26 01 50 51-0022	EA	100 Watt, PAR38, Exterior Incandescent Lamp.....	12.58	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.24	
26 01 50 51-0023	EA	150 Watt, PAR38, Exterior Incandescent Lamp.....	23.74	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.24	
26 01 50 51-0024	EA	250 Watt, PAR38, Exterior Incandescent Lamp.....	51.42	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.45	
26 01 50 51-0025	EA	300 Watt, PAR56, Exterior Incandescent Lamp.....	59.61	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.45	
26 01 50 51-0026 Exit Light Lamps (26 01 50 51-0001)				
26 01 50 51-0027	EA	Convert Exit Light Lamps To Red LED Lamps.....	68.22	
		<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0028	EA	Fluorescent Lamp For Exit Light.....	19.95	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-4.14	
26 01 50 51-0029	EA	Lamp Replacement For Emergency Lights On Exit Sign.....	33.01	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-2.07	
26 01 50 51-0030 Fluorescent Lamps (26 01 50 51-0001)				
26 01 50 51-0031	EA	18", 15 Watt, T8 Fluorescent Lamp.....	6.56	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0032	EA	2', 17 Watt, T8 Fluorescent Lamp.....	7.89	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0033	EA	3', 25 Watt, T8 Fluorescent Lamp.....	9.07	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0034	EA	4', 32 Watt, T8 Fluorescent Lamp.....	10.45	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0035	EA	4', 30 Watt, T8 Fluorescent Lamp.....	11.35	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0036	EA	4', 28 Watt, T8 Fluorescent Lamp.....	9.96	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0037	EA	4', 25 Watt, T8 Fluorescent Lamp.....	9.90	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0038	EA	4', 44 Watt, T8HO Fluorescent Lamp.....	15.90	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0039	EA	8', 59 Watt, T8 Fluorescent Lamp.....	12.14	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0040	EA	18", 15 Watt, T12 Fluorescent Lamp.....	9.91	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0041	EA	2', 20 Watt, T12 Fluorescent Lamp.....	7.51	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0042	EA	3', 30 Watt, T12 Fluorescent Lamp.....	8.44	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0043	EA	4', 34 Watt, T12 Fluorescent Lamp.....	8.48	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0044	EA	4', 40 Watt, T12 Fluorescent Lamp.....	8.30	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0045	EA	8', 60 Watt, T12 Fluorescent Lamp.....	12.44	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0046	EA	8', 75 Watt, T12 Fluorescent Lamp.....	10.51	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	
26 01 50 51-0047	EA	8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	17.78	
26 01 50 51-0048	EA	6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	10.03	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0049	EA	8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	8.25	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0050	EA	12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	7.98	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0051	EA	16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	8.83	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0052	EA	32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	14.57	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-2.07	
26 01 50 51-0053	EA	40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp.....	14.05	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-2.07	
26 01 50 51-0054	EA	6", 4 Watt, T5 Fluorescent Lamp.....	7.28	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0055	EA	9", 6 Watt, T5 Fluorescent Lamp.....	7.16	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0056	EA	12", 8 Watt, T5 Fluorescent Lamp.....	7.39	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0057	EA	21", 13 Watt, T5 Fluorescent Lamp.....	7.73	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0058	EA	24", 14 Watt, T5 Fluorescent Lamp.....	8.90	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.66	
26 01 50 51-0059	EA	34", 21 Watt, T5 Fluorescent Lamp.....	9.69	
		<i>For Multiple Lamps In Fixture, Deduct</i>	-1.87	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0060 EA 46", 28 Watt, T5 Fluorescent Lamp .....9.38 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.87		
26 01 50 51-0061 EA 46", 54 Watt T5HO Fluorescent Lamp .....10.26 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.87		
26 01 50 51-0062 EA 46", 54 Watt T5 Fluorescent Lamp .....11.50		
26 01 50 51-0063 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....5.76 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.04		
26 01 50 51-0064 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....6.37 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.04		
26 01 50 51-0065 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....13.09 <i>For Multiple Lamps In Fixture, Deduct</i> .....-1.04		
26 01 50 51-0066 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....17.05		
26 01 50 51-0067 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....17.05		
26 01 50 51-0068 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....32.14		
26 01 50 51-0069 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....11.66		
26 01 50 51-0070 EA 9-27 Watt Spiral Compact Fluorescent Lamps, Screw-In .....6.03		
26 01 50 51-0071 EA 29-32 Watt Spiral Compact Fluorescent Lamps, Screw-In .....6.03		
26 01 50 51-0072 EA 33-42 Watt Spiral Compact Fluorescent Lamps, Screw-In .....30.55		
26 01 50 51-0073 EA 43-65 Watt Spiral Compact Fluorescent Lamps, Screw-In .....33.45		
26 01 50 51-0074 EA 85 Watt Spiral Compact Fluorescent Lamps, Screw-In .....64.94		
26 01 50 51-0075 EA 105 Watt Spiral Compact Fluorescent Lamps, Screw-In .....78.06		
26 01 50 51-0076 EA 11 Watt Compact Fluorescent Reflector Lamps, Screw-In .....28.13		
26 01 50 51-0077 EA 15 Watt Compact Fluorescent Reflector Lamps, Screw-In .....29.41		
26 01 50 51-0078 EA 20-28 Watt Compact Fluorescent Reflector Lamps, Screw-In .....34.22		
26 01 50 51-0079 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0080 EA 50 Watt, Pulse Start Metal Halide Lamp .....23.47		
26 01 50 51-0081 EA 70 Watt, Pulse Start Metal Halide Lamp .....23.47		
26 01 50 51-0082 EA 100 Watt, Pulse Start Metal Halide Lamp .....27.12		
26 01 50 51-0083 EA 150 Watt, Pulse Start Metal Halide Lamp .....30.12		
26 01 50 51-0084 EA 175 Watt, Probe Start Metal Halide Lamp .....23.29		
26 01 50 51-0085 EA 175 Watt, Pulse Start Metal Halide Lamp .....34.68		
26 01 50 51-0086 EA 250 Watt, Probe Start Metal Halide Lamp .....22.81		
26 01 50 51-0087 EA 250 Watt, Pulse Start Metal Halide Lamp .....25.58		
26 01 50 51-0088 EA 400 Watt, Probe Start Metal Halide Lamp .....27.69		
26 01 50 51-0089 EA 400 Watt, Pulse Start Metal Halide Lamp .....28.50		
26 01 50 51-0090 EA 1,000 Watt, Probe Start Metal Halide Lamp .....29.40		
26 01 50 51-0091 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....43.41		
26 01 50 51-0092 EA 1,500 Watt, Probe Start Metal Halide Lamp .....37.99		
26 01 50 51-0093 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0094 EA 35 Watt, High Pressure Sodium Lamp .....20.67 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0095 EA 50 Watt, High Pressure Sodium Lamp .....20.67 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0096 EA 70 Watt, High Pressure Sodium Lamp .....21.13 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0097 EA 100 Watt, High Pressure Sodium Lamp .....22.01 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0098 EA 150 Watt, High Pressure Sodium Lamp .....21.13 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0099 EA 250 Watt, High Pressure Sodium Lamp .....21.13 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0100 EA 400 Watt, High Pressure Sodium Lamp .....19.82 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....1.60		
26 01 50 51-0101 EA 1,000 Watt, High Pressure Sodium Lamp .....45.93		
26 01 50 51-0102 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0103 EA 35 Watt, Low Pressure Sodium Lamp .....52.99		
26 01 50 51-0104 EA 55 Watt, Low Pressure Sodium Lamp .....59.14		
26 01 50 51-0105 EA 70 Watt, Low Pressure Sodium Lamp .....60.52		
26 01 50 51-0106 EA 90 Watt, Low Pressure Sodium Lamp .....61.91		
26 01 50 51-0107 EA 135 Watt, Low Pressure Sodium Lamp .....67.45		
26 01 50 51-0108 EA 180 Watt, Low Pressure Sodium Lamp .....92.39		
26 01 50 51-0109 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0110 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....8.76		
26 01 50 51-0111 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....11.74		
26 01 50 51-0112 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....11.74		
26 01 50 51-0113 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....19.74		
26 01 50 51-0114 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....13.76		
26 01 50 51-0115 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....24.74		
26 01 50 51-0116 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) .....15.84		
26 01 50 51-0117 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) .....14.15		
26 01 50 51-0118 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....18.64		
26 01 50 51-0119 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....15.65		
26 01 50 51-0120 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)20.64		



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0121	EA	18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	15.65	
26 01 50 51-0122	EA	7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	17.44	
26 01 50 51-0123	EA	12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	23.65	
26 01 50 51-0124	EA	16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	23.65	
26 01 50 51-0125	EA	15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	22.65	
26 01 50 51-0126	EA	12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	21.65	
26 01 50 51-0127	EA	15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	21.65	
26 01 50 51-0128	EA	18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	41.85	
26 01 50 51-0129	EA	15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	23.65	
26 01 50 51-0130	EA	18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	22.65	
26 01 50 51-0131	EA	19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	23.65	
26 01 50 51-0132	EA	24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	23.65	
26 01 50 51-0133	EA	4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	12.15	
26 01 50 51-0134	EA	6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	15.84	
26 01 50 51-0135	EA	8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	17.44	
26 01 50 51-0136 LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0001)				
26 01 50 51-0137	EA	2', 1,250 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	21.04	
		For Multiple Lamps In Fixture, Deduct	-1.66	
26 01 50 51-0138	EA	2', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	27.34	
		For Multiple Lamps In Fixture, Deduct	-1.66	
26 01 50 51-0139	EA	3', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	22.98	
		For Multiple Lamps In Fixture, Deduct	-1.87	
26 01 50 51-0140	EA	4', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	24.82	
		For Multiple Lamps In Fixture, Deduct	-1.87	
26 01 50 51-0141	EA	4', 2,200 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	27.18	
		For Multiple Lamps In Fixture, Deduct	-1.87	
26 01 50 51-0142 Recycle Hazardous Lamps (26 01 50 51)				
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift.				
26 01 50 51-0143	EA	Recycle 2' Length Linear Fluorescent Lamps	0.23	
26 01 50 51-0144	EA	Recycle 3' Length Linear Fluorescent Lamps	0.35	
26 01 50 51-0145	EA	Recycle 4' Length Linear Fluorescent Lamps	0.47	
26 01 50 51-0146	EA	Recycle 6' Length Linear Fluorescent Lamps	0.70	
26 01 50 51-0147	EA	Recycle 8' Length Linear Fluorescent Lamps	0.94	
26 01 50 51-0148	EA	Recycle Compact Fluorescent Lamps	0.42	
26 01 50 51-0149	EA	Recycle U-Shaped Or Circular Fluorescent Lamps	0.42	
26 01 50 51-0150	EA	Recycle High Intensity Discharge (HID) Lamps	1.47	
26 01 50 52 Ballasts And Accessories (26 01 50)				
26 01 50 52-0001 Owner Supplied Ballasts (26 01 50 52)				
26 01 50 52-0002	EA	Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	12.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.77	
26 01 50 52-0003	EA	Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	15.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.71	
26 01 50 52-0004	EA	Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	18.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.47	
26 01 50 52-0005	EA	Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	19.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 01 50 52-0006	EA	Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	21.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0007	EA	Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	23.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98	
26 01 50 52-0008	High Intensity Discharge (HID) Ballasts (26 01 50 52)			
26 01 50 52-0009	Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0008)			
26 01 50 52-0010	Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)			
26 01 50 52-0011	Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0010)			
26 01 50 52-0012	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	95.59	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0013	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	97.97	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0014	EA	1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	97.97	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0015	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	87.27	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0016	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	87.27	15.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	136.60	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	136.60	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	176.60	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	197.00	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0010)		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	86.18	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	91.50	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	89.21	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	105.20	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	102.92	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	117.76	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	117.76	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	142.45	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	142.45	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	229.07	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	229.07	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0010)		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type	9.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.88	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type	15.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.83	
26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)		
26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0036)		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	121.80	15.71
For Pulse Start Ballast, Add	9.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	128.40	15.71
For Pulse Start Ballast, Add	10.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	116.80	15.71
For Pulse Start Ballast, Add	9.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	135.87	15.71
For Pulse Start Ballast, Add	11.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	189.29	15.71
For Pulse Start Ballast, Add	16.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0036)		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	146.82	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	157.11	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)		
26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	245.48	15.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	393.52	25.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	



Electrical		26
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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 01 50 52-0051	EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	437.39		25.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91			
26 01 50 52-0052	EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	422.21		25.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91			
26 01 50 52-0053	Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)				
26 01 50 52-0054	Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0053)				
26 01 50 52-0055	EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	302.63		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0056	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	343.71		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0057	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	454.50		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0058	EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	452.11		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0059	EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	634.02		16.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98			
26 01 50 52-0060	EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	634.02		16.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98			
26 01 50 52-0061	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	435.81		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0062	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	513.02		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0063	High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0053)				
26 01 50 52-0064	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	566.12		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0065	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	538.91		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0066	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	693.19		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0067	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	693.19		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0068	Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0009)				
26 01 50 52-0069	Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0068)				
26 01 50 52-0070	EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	340.27		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0071	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	367.69		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0072	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	364.99		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0073	EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	383.36		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0074	EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	610.06		16.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98			
26 01 50 52-0075	EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	750.33		16.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98			
26 01 50 52-0076	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	569.31		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0077	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	518.16		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0078	High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0068)				
26 01 50 52-0079	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	439.76		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0080	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	474.35		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0081	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	709.16		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0082	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	609.95		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			
26 01 50 52-0083	Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0008)				
26 01 50 52-0084	Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0083)				
26 01 50 52-0085	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	134.95		15.71	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60			

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0086 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....134.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	134.95	15.71
26 01 50 52-0087 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....152.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	152.29	15.71
26 01 50 52-0088 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....395.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	395.19	15.71
26 01 50 52-0089 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....395.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	395.19	15.71
26 01 50 52-0090 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....395.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	395.19	15.71
26 01 50 52-0091 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....395.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	395.19	15.71
26 01 50 52-0092 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....395.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 6.60	395.19	15.71
26 01 50 52-0093 Retrofit Lighting Fixtures (26 01 50 52)		
26 01 50 52-0094 Retrofit Existing (T12) Fluorescent Fixtures (26 01 50 52-0093) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal, 26 01 50 51-0142 for hazardous lamp recycling.		
26 01 50 52-0095 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector (26 01 50 52-0094) Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 52-0096 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....65.71 <i>For Specular Ballast Cover, Add</i> 5.87	65.71	
26 01 50 52-0097 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps .....70.24 <i>For Specular Ballast Cover, Add</i> 6.78	70.24	
26 01 50 52-0098 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps .....90.97 <i>For Specular Ballast Cover, Add</i> 10.92	90.97	
26 01 50 52-0099 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps .....103.26 <i>For Specular Ballast Cover, Add</i> 13.38	103.26	
26 01 50 52-0100 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector (26 01 50 52-0094) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 52-0101 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp.....68.76 <i>For Specular Reflector, Add</i> 6.48	68.76	
26 01 50 52-0102 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps .....73.66 <i>For Specular Reflector, Add</i> 7.46	73.66	
26 01 50 52-0103 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps .....95.23 <i>For Specular Reflector, Add</i> 11.77	95.23	
26 01 50 52-0104 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps .....115.79 <i>For Specular Reflector, Add</i> 15.89	115.79	
26 01 50 52-0105 Retrofit Existing (T12) Troffer Style Fluorescent Fixtures (26 01 50 52-0094) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 52-0106 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps .....87.08 <i>For Specular Reflector, Add</i> 8.06	87.08	
26 01 50 52-0107 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps .....91.62 <i>For Specular Reflector, Add</i> 8.97	91.62	
26 01 50 52-0108 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps .....90.72 <i>For Specular Reflector, Add</i> 8.79	90.72	
26 01 50 52-0109 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps .....98.72 <i>For Specular Reflector, Add</i> 10.39	98.72	
26 01 50 52-0110 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps .....113.42 <i>For Specular Reflector, Add</i> 13.33	113.42	
26 01 50 52-0111 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps .....95.27 <i>For Specular Reflector, Add</i> 9.70	95.27	
26 01 50 52-0112 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps .....103.11 <i>For Specular Reflector, Add</i> 11.27	103.11	
26 01 50 52-0113 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps .....110.01 <i>For Specular Reflector, Add</i> 12.65	110.01	
26 01 50 52-0114 Retrofit Existing Recessed Lay-In/Troffer Fixtures (26 01 50 52-0093)		
26 01 50 52-0115 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) (26 01 50 52-0114) Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.		
26 01 50 52-0116 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....165.42	165.42	
26 01 50 52-0117 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....165.42	165.42	
26 01 50 52-0118 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....165.42	165.42	



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
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26 01 50 52-0119	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	180.94	
26 01 50 52-0120	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	165.42	
26 01 50 52-0121	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	165.42	
26 01 50 52-0122	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	165.42	
26 01 50 52-0123	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	180.94	
26 01 50 52-0124	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	166.14	
26 01 50 52-0125	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	166.14	
26 01 50 52-0126	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	166.14	
26 01 50 52-0127	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	181.66	
26 01 50 52-0128	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	166.14	
26 01 50 52-0129	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	166.14	
26 01 50 52-0130	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	166.14	
26 01 50 52-0131	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	181.66	
26 01 50 52-0132		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) (26 01 50 52-0114) Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.		
26 01 50 52-0133	EA	2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	236.75	
26 01 50 52-0134	EA	4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	247.30	
26 01 50 52-0135		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) (26 01 50 52-0114) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.		
26 01 50 52-0136	EA	1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	193.76	
26 01 50 52-0137	EA	2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	197.96	
26 01 50 52-0138	EA	2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	193.76	
26 01 50 52-0139	EA	3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	197.96	
26 01 50 52-0140	EA	3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	218.96	
26 01 50 52-0141	EA	4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	225.26	
26 01 50 52-0142	EA	5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	239.96	
26 01 50 52-0143		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) (26 01 50 52-0114) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.		
26 01 50 52-0144	EA	3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST) (DLC Certified).....	180.91	
26 01 50 52-0145	EA	3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST) (DLC Certified).....	186.77	
26 01 50 52-0146	EA	3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST) (DLC Certified).....	188.52	
26 01 50 52-0147	EA	3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST) (DLC Certified).....	194.38	
26 01 50 52-0148	EA	2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDX84022MST) (DLC Certified).....	141.36	
26 01 50 52-0149	EA	4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDX84022MST) (DLC Certified).....	144.15	
26 01 50 52-0150	EA	3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDX84024MST) (DLC Certified).....	148.60	
26 01 50 52-0151	EA	4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDX84024MST) (DLC Certified).....	151.38	
26 01 50 52-0152	EA	6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDX84024MST) (DLC Certified).....	182.55	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0153	EA	8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDX84024MST)(DLC Certified).....	213.71	
26 01 50 52-0154		Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) (26 01 50 52-0114)		
Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.				
26 01 50 52-0155	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	154.64	
26 01 50 52-0156	EA	1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	125.35	
26 01 50 52-0157	EA	2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	159.62	
26 01 50 52-0158	EA	2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	130.40	
26 01 50 52-0159	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	167.80	
26 01 50 52-0160	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	140.81	
26 01 50 52-0161	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	181.03	
26 01 50 52-0162	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	151.67	
26 01 50 52-0163	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	185.61	
26 01 50 52-0164	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	156.43	
26 01 50 52-0165	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	193.56	
26 01 50 52-0166	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	166.68	
26 01 50 52-0167		LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 52-0114)		
Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.				
26 01 50 52-0168	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	344.72	
26 01 50 52-0169	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	380.92	
26 01 50 53		Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001	EA	Parabolic Aluminum Louver Replacement.....	89.16	
26 01 50 53-0002	EA	Visor For Fixtures.....	181.28	
26 01 50 53-0003	EA	Replace Globe On Pole.....	218.08	
26 01 50 53-0004	EA	Replace Lenses For Flat Top Pole Fixtures.....	85.42	
26 01 50 53-0005	EA	Replace 1' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	28.35	
26 01 50 53-0006	EA	Replace 2' x 2' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	29.56	
26 01 50 53-0007	EA	Replace 2' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick.....	34.84	
26 01 50 53-0008	EA	Replace Slide-On Lampholder.....	12.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			3.12	
26 01 50 53-0009	EA	Replace Screw Mount Lampholder.....	12.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			3.12	
26 01 50 53-0010	EA	Replace Medium Bi-Pin Lampholder.....	14.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			3.12	
26 01 50 53-0011	EA	Replace Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	16.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			3.12	
26 01 50 53-0012	EA	Replace Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	18.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			3.12	
26 01 50 53-0013	EA	Replace Compact Twin-Tube Lampholder, Snap-in.....	13.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			3.12	
26 01 50 53-0014	EA	Replace Exterior Light Globes.....	53.34	
26 05 Common Work Results For Electrical (26)				
26 05 13 Medium-Voltage Cables (26 05)				
26 05 13 00-0001		Wire And Cable (26 05 13)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.				
26 05 13 00-0002		5 KV Cable (26 05 13 00-0001)		
26 05 13 00-0003		Pulled In Duct, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		



Electrical		26
Common Work Results For Electrical		26 05
Medium-Voltage Cables		26 05 13

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0004 MLF #6 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	2,688.14	779.06
26 05 13 00-0005 MLF #4 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,127.82	850.65
26 05 13 00-0006 MLF #2 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,692.03	961.10
26 05 13 00-0007 MLF #1/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	4,743.23	1,184.12
26 05 13 00-0008 MLF #2/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	5,390.90	1,333.42
26 05 13 00-0009 MLF #3/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	6,498.23	1,480.07
26 05 13 00-0010 MLF #4/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	7,312.18	1,663.01
26 05 13 00-0011 MLF 250 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	8,586.38	1,850.16
26 05 13 00-0012 MLF 350 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	10,048.90	2,209.05
26 05 13 00-0013 MLF 500 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	12,526.53	2,596.69
26 05 13 00-0014 MLF 750 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	15,953.82	2,220.15
26 05 13 00-0015 MLF 1,000 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	23,582.08	3,524.05
26 05 13 00-0016 Direct Burial, Cross-Linked Polyethylene (XLP) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
Note: Excludes excavation.		
26 05 13 00-0017 MLF #6 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	2,590.76	
26 05 13 00-0018 MLF #4 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	2,851.36	
26 05 13 00-0019 MLF #2 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	3,139.39	
26 05 13 00-0020 MLF #1/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	3,816.13	
26 05 13 00-0021 MLF #2/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	4,090.44	
26 05 13 00-0022 MLF #3/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	5,013.70	
26 05 13 00-0023 MLF #4/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	5,370.31	
26 05 13 00-0024 MLF 250 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	6,363.83	
26 05 13 00-0025 MLF 350 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	7,026.32	
26 05 13 00-0026 MLF 500 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	8,622.45	
26 05 13 00-0027 Aerial, Cross-Linked Polyethylene (XLP) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
Note: Installed on poles.		
26 05 13 00-0028 MLF #6 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	2,024.95	494.48
26 05 13 00-0029 MLF #4 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	2,378.52	530.19
26 05 13 00-0030 MLF #2 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	3,030.71	670.47
26 05 13 00-0031 MLF #1/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	3,897.11	813.93
26 05 13 00-0032 MLF #2/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	4,539.09	955.49
26 05 13 00-0033 MLF #3/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	5,636.23	1,092.69
26 05 13 00-0034 MLF #4/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	6,447.68	1,267.84
26 05 13 00-0035 MLF 250 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	8,103.99	1,595.02
26 05 13 00-0036 MLF 350 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	9,768.21	2,018.20
26 05 13 00-0037 MLF 500 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	12,621.05	2,535.67
26 05 13 00-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 00-0002)		
26 05 13 00-0039 MLF 1/0 5 KV Non-Shielded, Single Copper Conductor	5,732.50	1,552.56
26 05 13 00-0040 MLF 3/0 5 KV Non-Shielded, Single Copper Conductor	7,139.98	1,597.17
26 05 13 00-0041 MLF 4/0 5 KV Non-Shielded, Single Copper Conductor	7,413.18	1,632.48
26 05 13 00-0042 MLF 350 MCM 5 KV Non-Shielded, Single Copper Conductor	8,666.61	1,694.75
26 05 13 00-0043 MLF 500 MCM 5 KV Non-Shielded, Single Copper Conductor	11,844.79	1,776.12
26 05 13 00-0044 MLF 750 MCM 5 KV Non-Shielded, Single Copper Conductor	17,891.20	2,220.15
26 05 13 00-0045 MLF 1,000 MCM 5 KV Non-Shielded, Single Copper Conductor	20,975.41	2,960.24
26 05 13 00-0046 Placed In Duct, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
26 05 13 00-0047 MLF #6 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	2,821.46	779.06
26 05 13 00-0048 MLF #4 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,308.04	850.65
26 05 13 00-0049 MLF #2 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,924.09	961.10
26 05 13 00-0050 MLF #1 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	4,493.99	1,072.56
26 05 13 00-0051 MLF #1/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	5,064.17	1,184.12
26 05 13 00-0052 MLF #2/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	5,761.22	1,333.42
26 05 13 00-0053 MLF #3/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	7,001.87	1,480.07
26 05 13 00-0054 MLF #4/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	7,880.00	1,663.01
26 05 13 00-0055 MLF 250 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	9,299.37	1,850.16
26 05 13 00-0056 MLF 350 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	10,863.61	2,209.05
26 05 13 00-0057 MLF 500 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	13,612.80	2,596.69
26 05 13 00-0058 MLF 750 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	17,826.44	2,220.15
26 05 13 00-0059 MLF 1,000 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	26,241.04	3,524.05
26 05 13 00-0060 Direct Burial, Ethylene-Propylene Rubber (EPR) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
Note: Excludes excavation.		
26 05 13 00-0061 MLF #6 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	2,724.08	
26 05 13 00-0062 MLF #4 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	3,031.58	
26 05 13 00-0063 MLF #2 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	3,371.46	
26 05 13 00-0064 MLF #1 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	3,754.69	
26 05 13 00-0065 MLF #1/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation	4,137.07	

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0066 MLF #2/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,460.76	
26 05 13 00-0067 MLF #3/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,517.34	
26 05 13 00-0068 MLF #4/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,938.13	
26 05 13 00-0069 MLF 250 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	7,076.82	
26 05 13 00-0070 MLF 350 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	7,841.02	
26 05 13 00-0071 MLF 500 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	9,708.72	
26 05 13 00-0072 Aerial, Ethylene-Propylene Rubber (EPR) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)		
Note: Installed on poles.		
26 05 13 00-0073 MLF #6 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	2,158.27	494.48
26 05 13 00-0074 MLF #4 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	2,558.74	530.19
26 05 13 00-0075 MLF #2 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	3,262.77	670.47
26 05 13 00-0076 MLF #1 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	3,739.11	741.67
26 05 13 00-0077 MLF #1/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,218.05	813.93
26 05 13 00-0078 MLF #2/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,909.41	955.49
26 05 13 00-0079 MLF #3/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	6,139.87	1,092.69
26 05 13 00-0080 MLF #4/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	7,015.50	1,267.84
26 05 13 00-0081 MLF 250 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	8,816.98	1,595.02
26 05 13 00-0082 MLF 350 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	10,582.91	2,018.20
26 05 13 00-0083 MLF 500 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	13,707.32	2,535.67
26 05 13 00-0084 15 KV Cable (26 05 13 00-0001)		
26 05 13 00-0085 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0084)		
26 05 13 00-0086 Placed In Duct, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)		
26 05 13 00-0087 MLF #4 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,537.54	1,552.56
26 05 13 00-0088 MLF #2 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,874.45	1,552.56
26 05 13 00-0089 MLF #1 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,002.96	1,552.56
26 05 13 00-0090 MLF #1/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,421.60	1,552.56
26 05 13 00-0091 MLF #2/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,818.95	1,552.56
26 05 13 00-0092 MLF #3/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,655.93	1,620.60
26 05 13 00-0093 MLF #4/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,812.03	1,620.60
26 05 13 00-0094 MLF 250 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,849.06	1,694.75
26 05 13 00-0095 MLF 350 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,863.69	1,734.50
26 05 13 00-0096 MLF 500 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,994.11	1,953.73
26 05 13 00-0097 Direct Burial, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)		
Note: Excludes excavation.		
26 05 13 00-0098 MLF #1 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,332.88	
26 05 13 00-0099 MLF #1/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,751.52	
26 05 13 00-0100 MLF #2/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,148.87	
26 05 13 00-0101 MLF #3/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,007.32	
26 05 13 00-0102 MLF #4/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,163.42	
26 05 13 00-0103 MLF 250 MCM, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,292.73	
26 05 13 00-0104 MLF 350 MCM, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,309.60	
26 05 13 00-0105 MLF 500 MCM Cable, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation.....	10,217.99	
26 05 13 00-0106 Aerial, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)		
Note: Installed on poles.		
26 05 13 00-0107 MLF #1 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	3,956.30	706.39
26 05 13 00-0108 MLF #1/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,654.30	813.93
26 05 13 00-0109 MLF #2/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,419.32	955.49
26 05 13 00-0110 MLF #3/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,442.81	1,092.69
26 05 13 00-0111 MLF #4/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,053.75	1,267.84
26 05 13 00-0112 MLF 250 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,445.89	1,475.93
26 05 13 00-0113 MLF 350 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,994.61	1,719.84
26 05 13 00-0114 MLF 500 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,298.90	1,997.75
26 05 13 00-0115 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0084)		
26 05 13 00-0116 Placed In Duct, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115)		
26 05 13 00-0117 MLF #4 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,835.65	1,552.56
26 05 13 00-0118 MLF #2 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,233.20	1,552.56
26 05 13 00-0119 MLF #1 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,384.84	1,552.56
26 05 13 00-0120 MLF #1/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,878.84	1,552.56
26 05 13 00-0121 MLF #2/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,347.72	1,552.56
26 05 13 00-0122 MLF #3/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,304.75	1,620.60



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0123 MLF #4/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,488.95	1,620.60
26 05 13 00-0124 MLF 250 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	9,679.25	1,694.75
26 05 13 00-0125 MLF 350 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	10,858.64	1,734.50
26 05 13 00-0126 MLF 500 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	13,273.87	1,953.73
26 05 13 00-0127 Direct Burial, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115)		
Note: Excludes excavation.		
26 05 13 00-0128 MLF #1 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	4,714.77	
26 05 13 00-0129 MLF #1/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,208.76	
26 05 13 00-0130 MLF #2/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,677.63	
26 05 13 00-0131 MLF #3/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,656.14	
26 05 13 00-0132 MLF #4/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	6,840.34	
26 05 13 00-0133 MLF 250 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	8,120.50	
26 05 13 00-0134 MLF 350 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	9,297.59	
26 05 13 00-0135 MLF 500 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	11,497.76	
26 05 13 00-0136 Aerial, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115)		
Note: Installed on poles.		
26 05 13 00-0137 MLF #1 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	4,338.19	706.39
26 05 13 00-0138 MLF #1/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,111.54	813.93
26 05 13 00-0139 MLF #2/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	5,948.08	955.49
26 05 13 00-0140 MLF #3/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,091.63	1,092.69
26 05 13 00-0141 MLF #4/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	7,730.66	1,267.84
26 05 13 00-0142 MLF 250 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	9,276.07	1,475.93
26 05 13 00-0143 MLF 350 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	10,989.55	1,719.84
26 05 13 00-0144 MLF 500 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable	13,578.67	1,997.75
26 05 13 00-0145 15 KV Non-Shielded Single Copper Conductor (26 05 13 00-0084)		
26 05 13 00-0146 MLF 1/0 15 KV Non-Shielded, Single Copper Conductor	7,342.56	1,558.00
26 05 13 00-0147 MLF 3/0 15 KV Non-Shielded, Single Copper Conductor	9,188.66	1,632.48
26 05 13 00-0148 MLF 350 MCM 15 KV Non-Shielded, Single Copper Conductor	12,176.65	1,741.27
26 05 13 00-0149 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 00-0084)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 00-0150 Galvanized Steel Interlocked Armor Cable (26 05 13 00-0149)		
26 05 13 00-0151 LF #2 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	38.88	11.88
26 05 13 00-0152 LF #1/0 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	45.15	12.65
26 05 13 00-0153 Aluminum Interlocked Armor Cable (26 05 13 00-0149)		
26 05 13 00-0154 LF #2 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	38.88	11.88
26 05 13 00-0155 LF #1/0 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	45.15	12.65
26 05 13 00-0156 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 00-0084)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 00-0157 MLF #4 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	2,750.77	779.06
26 05 13 00-0158 MLF #2 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	3,212.49	850.65
26 05 13 00-0159 MLF #1 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	3,801.05	961.10
26 05 13 00-0160 MLF #1/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	4,886.14	1,180.90
26 05 13 00-0161 MLF #2/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	5,554.90	1,329.42
26 05 13 00-0162 MLF #3/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	6,734.84	1,480.07
26 05 13 00-0163 MLF #4/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor	7,563.42	1,656.79
26 05 13 00-0164 15 KV URD Cable Copper Direct Burial (26 05 13 00-0084)		
26 05 13 00-0165 MLF 15 KV 3/C URD Cable Copper Direct Burial #6	10,900.41	
26 05 13 00-0166 35 KV And 70 KV Cable (26 05 13 00-0001)		
26 05 13 00-0167 35 KV, Shielded, Single Copper Conductor (26 05 13 00-0166)		
26 05 13 00-0168 MLF 3/0 35 KV Shielded, Single Copper Conductor	12,961.21	2,602.32
26 05 13 00-0169 70 KV, Shielded, Single Copper Conductor (26 05 13 00-0166)		
26 05 13 00-0170 MLF 350 MCM 70 KV Shielded, Single Copper Conductor	37,384.22	2,966.69
26 05 13 00-0171 Wire Connections (26 05 13 00-0001)		
26 05 13 00-0172 Medium Voltage Up To 5 KV (26 05 13 00-0171)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0173		Shielded One Conductor Cable Splice (26 05 13 00-0172)		
26 05 13 00-0174	EA	#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	250.21	103.76
26 05 13 00-0175	EA	#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	286.07	103.76
26 05 13 00-0176	EA	1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	286.07	103.76
26 05 13 00-0177	EA	2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	316.94	124.51
26 05 13 00-0178	EA	3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	316.94	124.51
26 05 13 00-0179	EA	4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	316.94	124.51
26 05 13 00-0180	EA	250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	358.12	145.26
26 05 13 00-0181	EA	350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	358.12	145.26
26 05 13 00-0182	EA	500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	358.12	145.26
26 05 13 00-0183		Cable Termination Without Stress Cone (26 05 13 00-0172)		
26 05 13 00-0184	EA	#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	250.07	124.51
26 05 13 00-0185	EA	250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	294.33	145.26
26 05 13 00-0186		Cable Termination With Stress Cone (26 05 13 00-0172)		
26 05 13 00-0187	EA	#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	802.23	249.03
26 05 13 00-0188	EA	250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,111.11	342.40
26 05 13 00-0189		Connect To Pothead, Pothead Included (26 05 13 00-0172)		
26 05 13 00-0190	EA	#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	823.89	249.03
26 05 13 00-0191	EA	250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	1,017.49	285.34
26 05 13 00-0192		Two Conductor Pothead (26 05 13 00-0172)		
		Note: Includes 5 KV pothead.		
26 05 13 00-0193	EA	#6 To 4/0 AWG 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	822.19	342.40
26 05 13 00-0194	EA	250 To 350 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	1,060.35	435.79
26 05 13 00-0195	EA	400 To 700 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	1,398.59	494.10
26 05 13 00-0196	EA	750 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	1,973.67	576.48
26 05 13 00-0197	EA	1,000 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV	3,370.91	864.63
26 05 13 00-0198		Three Conductor Pothead (26 05 13 00-0172)		
		Note: Includes 5 KV pothead.		
26 05 13 00-0199	EA	#6 To 4/0 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV	2,131.17	498.04
26 05 13 00-0200	EA	250 To 500 MCM 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV	2,380.52	581.05
26 05 13 00-0201		Copper Cable Splice, Crimp Compression Connection (26 05 13 00-0172)		
		Note: For bare wire.		
26 05 13 00-0202	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire	62.52	
26 05 13 00-0203	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire	68.55	
26 05 13 00-0204	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire	79.96	
26 05 13 00-0205	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire	91.06	
26 05 13 00-0206	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire	102.58	
26 05 13 00-0207	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire	113.94	
26 05 13 00-0208	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire	125.23	
26 05 13 00-0209	EA	3/0 AWG Crimp Compression Connection For Bare Copper Wire	136.81	
26 05 13 00-0210	EA	4/0 AWG Crimp Compression Connection For Bare Copper Wire	148.22	
26 05 13 00-0211	EA	250 MCM Crimp Compression Connection For Bare Copper Wire	159.76	
26 05 13 00-0212	EA	300 MCM Crimp Compression Connection For Bare Copper Wire	171.45	
26 05 13 00-0213	EA	350 MCM Crimp Compression Connection For Bare Copper Wire	182.75	
26 05 13 00-0214	EA	400 MCM Crimp Compression Connection For Bare Copper Wire	206.05	
26 05 13 00-0215	EA	500 MCM Crimp Compression Connection For Bare Copper Wire	229.74	
26 05 13 00-0216		Aluminum Cable Splice, Crimp Compression Connection (26 05 13 00-0172)		
		Note: For bare wire.		
26 05 13 00-0217	EA	#6 AWG Crimp Compression Connection For Bare Aluminum Wire	63.30	
26 05 13 00-0218	EA	#4 AWG Crimp Compression Connection For Bare Aluminum Wire	68.98	
26 05 13 00-0219	EA	#2 AWG Crimp Compression Connection For Bare Aluminum Wire	92.47	
26 05 13 00-0220	EA	#1 AWG Crimp Compression Connection For Bare Aluminum Wire	106.17	
26 05 13 00-0221	EA	1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	117.33	
26 05 13 00-0222	EA	2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	128.46	
26 05 13 00-0223	EA	3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	140.56	
26 05 13 00-0224	EA	4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	152.19	
26 05 13 00-0225	EA	250 MCM Crimp Compression Connection For Bare Aluminum Wire	163.63	
26 05 13 00-0226	EA	300 MCM Crimp Compression Connection For Bare Aluminum Wire	175.23	
26 05 13 00-0227	EA	350 MCM Crimp Compression Connection For Bare Aluminum Wire	186.72	
26 05 13 00-0228	EA	400 MCM Crimp Compression Connection For Bare Aluminum Wire	211.74	
26 05 13 00-0229	EA	500 MCM Crimp Compression Connection For Bare Aluminum Wire	236.85	
26 05 13 00-0230		15 KV (26 05 13 00-0171)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0231		Single Conductor Pothead On Racks (26 05 13 00-0230) Note: Includes pothead.		
26 05 13 00-0232	EA	#2 To 4/0 AWG 1/c 15 KV Pothead (Included), On Racks.....	1,015.11	435.79
26 05 13 00-0233	EA	250 To 500 MCM 1/c 15 KV Pothead (Included), On Racks.....	1,280.24	539.54
26 05 13 00-0234		Two Conductor Pothead On Rack (26 05 13 00-0230) Note: Includes pothead.		
26 05 13 00-0235	EA	#2 To 4/0 AWG 2/c 15 KV Pothead (Included), On Racks.....	1,533.16	664.06
26 05 13 00-0236	EA	250 To 500 MCM 2/c 15 KV Pothead (Included), On Racks.....	1,825.30	788.57
26 05 13 00-0237		Three Conductor Pothead On Rack (26 05 13 00-0230) Note: Includes pothead.		
26 05 13 00-0238	EA	#2 To 4/0 AWG 3/c 15 KV Pothead (Included), On Racks.....	1,978.12	861.20
26 05 13 00-0239	EA	250 To 500 MCM 3/c 15 KV Pothead (Included), On Racks.....	2,469.15	1,079.10
26 05 13 00-0240		Stress Relief Cone On Rack (26 05 13 00-0230)		
26 05 13 00-0241	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack	988.94	435.79
26 05 13 00-0242	EA	250 To 500 MCM Stress Relief Cone, On Rack	1,250.82	539.54
26 05 13 00-0243		Grounded, Shielded Cable Splice (26 05 13 00-0230)		
26 05 13 00-0244	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV	713.21	321.66
26 05 13 00-0245	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV	917.69	415.03
26 05 13 00-0246	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	3,271.84	1,141.35
26 05 13 00-0247	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	3,907.48	1,245.11
26 05 13 00-0248		Cable Termination (26 05 13 00-0230)		
26 05 13 00-0249	EA	#2 To 3/0 AWG Cable Termination 15 KV	430.69	181.57
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.95	
26 05 13 00-0250	EA	4/0 To 250 MCM Cable Termination 15 KV	549.54	233.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.07	
26 05 13 00-0251	EA	350 To 500 MCM Cable Termination 15 KV	675.83	285.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.20	
26 05 13 00-0252	EA	#2 To 3/0 AWG Cable Elbow Termination 15 KV	258.46	103.76
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26	
26 05 13 00-0253		Stress Cones, 5-15 KV, 4 Skirted (26 05 13 00-0230)		
26 05 13 00-0254	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	420.77	134.89
26 05 13 00-0255	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	472.86	149.08
26 05 13 00-0256	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	543.00	163.15
26 05 13 00-0257	EA	400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	669.23	187.97
26 05 13 00-0258		Stress Cones, 5-15 KV, 6 Skirted (26 05 13 00-0230)		
26 05 13 00-0259	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	841.57	270.23
26 05 13 00-0260	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	945.78	298.16
26 05 13 00-0261	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,073.92	320.24
26 05 13 00-0262	EA	400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,338.45	375.94
26 05 13 00-0263		35 KV (26 05 13 00-0171)		
26 05 13 00-0264		35 KV One Conductor Splice (26 05 13 00-0263)		
26 05 13 00-0265	EA	Cable Splicing, #1 Stranded To 4/0 Stranded, 35 KV	1,771.38	
26 05 13 00-0266		Cable Termination (26 05 13 00-0263)		
26 05 13 00-0267	EA	#2 To 3/0 AWG Cable Termination 35 KV	330.69	124.61
26 05 13 00-0268	EA	3/0 AWG To 250 MCM Cable Termination 35 KV	475.66	188.02
26 05 13 00-0269	EA	350 To 500 MCM Cable Termination 35 KV	529.08	201.09
26 05 13 00-0270	EA	#2 To 3/0 AWG Cable Elbow Termination 35 KV	269.00	103.76
26 05 13 00-0271		70 KV (26 05 13 00-0171)		
26 05 13 00-0272		Cable Splice (26 05 13 00-0271)		
26 05 13 00-0273	EA	Cable Splicing, 350 MCM 70 KV	5,185.46	
26 05 13 00-0274	EA	Cable Splicing, #2 To 4/0 70 KV	1,797.85	
26 05 19		Low-Voltage Electrical Power Conductors And Cables (26 05)		
26 05 19 13		Undercarpet Electrical Power Cables (26 05 19)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 13-0001 Under Carpet Power System (26 05 19 13)		
Note: Includes laying out, floor prep, taping, testing, drill floor, folds.		
26 05 19 13-0002 LF Cable Flat 3 Conductor #12 With Attached Bottom Shield.....	3.09	0.47
26 05 19 13-0003 LF Top Shield, Steel.....	7.03	0.47
26 05 19 13-0004 EA Splice, 3-Conductor.....	23.04	8.07
26 05 19 13-0005 EA Splice Top Shield For 3 Conductor.....	8.16	3.80
26 05 19 13-0006 EA Tap 3-Conductor.....	28.15	9.49
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End.....	37.00	8.07
26 05 19 13-0008 EA Transition Block Assembly 3-conductor.....	23.62	4.74
26 05 19 13-0009 EA Receptacles, Direct Connected Single, With Box.....	72.11	15.18
26 05 19 13-0010 EA Receptacles, Direct Connected Dual, With Box.....	118.56	23.72
26 05 19 13-0011 EA Box, Floor Mounted With Cover.....	113.37	18.97
26 05 19 13-0012 LF 5-Conductor #12 With Attached Bottom Shield.....	4.64	0.47
26 05 19 13-0013 LF Shield, Top, Steel For 5 Conductor.....	4.60	0.47
26 05 19 13-0014 EA Splice, 5 Conductor.....	23.24	8.07
26 05 19 13-0015 EA Insulating Patch Splice Tap And End.....	29.67	4.74
26 05 19 13-0016 EA Transition Block Assembly 5 Conductor.....	29.67	4.74
26 05 19 13-0017 EA Box, Wall, Flush With Cover.....	61.60	18.97
26 05 19 13-0018 EA Telephone Transition Fitting Wall Box.....	43.83	15.65
26 05 19 13-0019 EA Telephone Fitting With Duplex Jack And Cover RJ-45.....	55.04	18.03
26 05 19 13-0020 EA Telephone Miniature With Duplex RJ-45.....	23.03	7.11
26 05 19 13-0021 LF Telephone 4-Pair Level 5 Under Carpet Wire.....	1.40	0.47
26 05 19 13-0022 EA BNC Coax Connector Plug.....	22.28	9.49
26 05 19 13-0023 EA TNC Connector Coax Plug.....	22.28	9.49
26 05 19 13-0024 CLF Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm.....	114.62	47.43
26 05 19 16 Low-Voltage, Single-And Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.32	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.17	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.71	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.40	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand.....	2.40	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand.....	3.05	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge.....	335.33	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable (26 05 19 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012)		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013)		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0017 LF 2/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.06	0.41
26 05 19 16-0018 LF 3/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.10	0.41
26 05 19 16-0019 LF 4/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.24	0.41
26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0021 LF 2/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.22	0.41
26 05 19 16-0022 LF 3/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.31	0.41
26 05 19 16-0023 LF 4/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.43	0.41
26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0025 LF 2/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.38	0.41
26 05 19 16-0026 LF 3/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.52	0.41
26 05 19 16-0027 LF 4/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.78	0.41



Electrical		26
Common Work Results For Electrical		26 05
Low-Voltage Electrical Power Conductors And Cables		26 05 19

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0029 LF 2/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.60	0.41
26 05 19 16-0030 LF 3/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.77	0.41
26 05 19 16-0031 LF 4/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.99	0.41
26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0033 LF 2/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.10	0.52
26 05 19 16-0034 LF 3/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.21	0.52
26 05 19 16-0035 LF 4/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.38	0.52
26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0038 LF 2/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.11	0.41
26 05 19 16-0039 LF 3/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.20	0.41
26 05 19 16-0040 LF 4/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.33	0.41
26 05 19 16-0041 LF 5/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.32	0.56
26 05 19 16-0042 LF 6/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.54	0.57
26 05 19 16-0043 LF 7/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.70	0.59
26 05 19 16-0044 LF 8/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.97	0.61
26 05 19 16-0045 LF 10/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.42	0.64
26 05 19 16-0046 LF 12/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.91	0.65
26 05 19 16-0047 LF 14/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.17	0.67
26 05 19 16-0048 LF 16/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.27	0.68
26 05 19 16-0049 LF 18/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.42	0.70
26 05 19 16-0050 LF 20/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.03	0.71
26 05 19 16-0051 LF 24/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.62	0.73
26 05 19 16-0052 LF 30/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.94	0.78
26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0054 LF 2/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.31	0.41
26 05 19 16-0055 LF 3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.39	0.41
26 05 19 16-0056 LF 4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.56	0.41
26 05 19 16-0057 LF 5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.43	0.56
26 05 19 16-0058 LF 6/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.69	0.57
26 05 19 16-0059 LF 7/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.93	0.59
26 05 19 16-0060 LF 8/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.26	0.61
26 05 19 16-0061 LF 9/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.39	0.62
26 05 19 16-0062 LF 10/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.77	0.64
26 05 19 16-0063 LF 12/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.41	0.65
26 05 19 16-0064 LF 14/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.73	0.67
26 05 19 16-0065 LF 16/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.36	0.68
26 05 19 16-0066 LF 18/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.20	0.70
26 05 19 16-0067 LF 20/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.96	0.71
26 05 19 16-0068 LF 24/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.43	0.73
26 05 19 16-0069 LF 26/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.27	0.75
26 05 19 16-0070 LF 30/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.80	0.78
26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0072 LF 2/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.54	0.41
26 05 19 16-0073 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.64	0.41
26 05 19 16-0074 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.87	0.41
26 05 19 16-0075 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.17	0.56
26 05 19 16-0076 LF 6/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.81	0.57
26 05 19 16-0077 LF 7/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.02	0.59
26 05 19 16-0078 LF 8/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.54	0.61
26 05 19 16-0079 LF 9/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.89	0.62
26 05 19 16-0080 LF 10/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.46	0.64
26 05 19 16-0081 LF 12/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.01	0.65
26 05 19 16-0082 LF 14/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.64	0.67
26 05 19 16-0083 LF 16/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.00	0.68
26 05 19 16-0084 LF 20/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.98	0.71
26 05 19 16-0085 LF 24/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.60	0.73
26 05 19 16-0086 LF 30/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.54	0.78
26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0088 LF 2/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.78	0.41
26 05 19 16-0089 LF 3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.96	0.41
26 05 19 16-0090 LF 4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.14	0.41
26 05 19 16-0091 LF 5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.64	0.56

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0092 LF 6/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.23	0.57
26 05 19 16-0093 LF 7/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.83	0.59
26 05 19 16-0094 LF 8/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.49	0.61
26 05 19 16-0095 LF 9/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.95	0.62
26 05 19 16-0096 LF 10/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.74	0.64
26 05 19 16-0097 LF 12/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.69	0.65
26 05 19 16-0098 LF 14/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.56	0.67
26 05 19 16-0099 LF 16/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.44	0.68
26 05 19 16-0100 LF 18/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.86	0.70
26 05 19 16-0101 LF 20/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.37	0.71
26 05 19 16-0102 LF 24/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.93	0.73
26 05 19 16-0103 LF 26/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.48	0.75
26 05 19 16-0104 LF 28/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.98	0.76
26 05 19 16-0105 LF 30/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	15.53	0.78
26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0107 LF 2/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.05	0.52
26 05 19 16-0108 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.20	0.52
26 05 19 16-0109 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.37	0.52
26 05 19 16-0110 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.14	0.56
26 05 19 16-0111 LF 6/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.19	0.57
26 05 19 16-0112 LF 7/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.11	0.59
26 05 19 16-0113 LF 10/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.88	0.64
26 05 19 16-0114 LF 12/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.04	0.65
26 05 19 16-0115 LF 16/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.55	0.68
26 05 19 16-0116 LF 20/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.84	0.71
26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0118 LF 3/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	4.15	0.62
26 05 19 16-0119 LF 4/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	4.51	0.72
26 05 19 16-0120 LF 5/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	6.17	0.72
26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0122 LF 3/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	5.97	0.72
26 05 19 16-0123 LF 4/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	7.21	0.83
26 05 19 16-0124 LF 5/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	8.65	1.04
26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0126 LF 3/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	9.54	1.04
26 05 19 16-0127 LF 4/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	10.47	1.14
26 05 19 16-0128 LF 5/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	12.65	1.24
26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0130 LF 3/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	14.28	2.07
26 05 19 16-0131 LF 4/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	18.18	2.59
26 05 19 16-0132 LF 5/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	21.96	3.43
26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0135 LF 2/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.43	0.41
26 05 19 16-0136 LF 3/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.58	0.41
26 05 19 16-0137 LF 4/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.88	0.41
26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0139 LF 2/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.53	0.41
26 05 19 16-0140 LF 3/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.76	0.41
26 05 19 16-0141 LF 4/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.87	0.41
26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0133)		
26 05 19 16-0143 LF 2/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.12	0.41
26 05 19 16-0144 LF 3/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.09	0.41
26 05 19 16-0145 LF 4/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.96	0.52
26 05 19 16-0146 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0147 #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0148 LF 2/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.04	0.41



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0149 LF 3/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.45	0.41
26 05 19 16-0150 LF 4/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.88	0.41
26 05 19 16-0151 #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0149)		
26 05 19 16-0152 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.19	0.41
26 05 19 16-0153 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.60	0.41
26 05 19 16-0154 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.26	0.41
26 05 19 16-0155 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.53	0.52
26 05 19 16-0156 #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0149)		
26 05 19 16-0157 LF 3/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.70	0.41
26 05 19 16-0158 LF 4/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.24	0.41
26 05 19 16-0159 LF 5/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.62	0.52
26 05 19 16-0160 #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0149)		
26 05 19 16-0161 LF 3/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.21	0.41
26 05 19 16-0162 LF 4/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.68	0.41
26 05 19 16-0163 LF 5/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.11	0.52
26 05 19 16-0164 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0149)		
26 05 19 16-0165 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.68	0.52
26 05 19 16-0166 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.10	0.52
26 05 19 16-0167 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.53	0.52
26 05 19 16-0168 Multi-Conductor Type SEOW Cord (26 05 19 16-0013) Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0169 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0168)		
26 05 19 16-0170 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0171 LF 3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.54	0.41
26 05 19 16-0172 LF 4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.70	0.41
26 05 19 16-0173 LF 5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.60	0.52
26 05 19 16-0174 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0175 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.04	0.41
26 05 19 16-0176 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.35	0.41
26 05 19 16-0177 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.38	0.52
26 05 19 16-0178 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0179 LF 3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.54	0.41
26 05 19 16-0180 LF 4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.94	0.41
26 05 19 16-0181 LF 5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.71	0.52
26 05 19 16-0182 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0183 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.23	0.52
26 05 19 16-0184 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.71	0.52
26 05 19 16-0185 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.98	0.52
26 05 19 16-0186 Multi-Conductor Type W Cord (26 05 19 16-0013) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0187 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0186)		
26 05 19 16-0188 #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0187)		
26 05 19 16-0189 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.55	0.62
26 05 19 16-0190 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.89	0.72
26 05 19 16-0191 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.79	0.72
26 05 19 16-0192 #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0187)		
26 05 19 16-0193 LF 3/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.88	0.72
26 05 19 16-0194 LF 4/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.83	0.83
26 05 19 16-0195 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.24	1.04
26 05 19 16-0196 #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0187)		
26 05 19 16-0197 LF 3/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.66	0.72

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0198 LF 4/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.87	0.83
26 05 19 16-0199 LF 5/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.12	1.04
26 05 19 16-0200 Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0012)		
26 05 19 16-0201 Cord Grips (26 05 19 16-0200)		
26 05 19 16-0202 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	64.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 19 16-0203 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	64.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 19 16-0204 Cable Reels (26 05 19 16-0200)		
Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	532.35	51.88
26 05 19 16-0206 EA 50', 10-4, SEOWW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,453.20	51.88
26 05 19 16-0207 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,089.19	51.88
26 05 19 16-0208 Extension Cords (26 05 19 16-0200)		
26 05 19 16-0209 EA Extension Cord, 120 Volt 12/3, 100 Ft.....	86.76	
26 05 19 16-0210 EA Extension Cord, 240 Volt 10/3, 100 Ft.....	130.50	
26 05 19 16-0211 Plugs And Connector Bodies (26 05 19 16-0200)		
Note: Up to 277 volts.		
26 05 19 16-0212 NEMA Twist-Lock Plugs (26 05 19 16-0211)		
26 05 19 16-0213 EA 15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	69.17	
26 05 19 16-0214 EA 15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	70.50	
26 05 19 16-0215 EA 20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	64.90	
26 05 19 16-0216 EA 20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	69.00	
26 05 19 16-0217 EA 20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	88.23	
26 05 19 16-0218 EA 20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	93.44	
26 05 19 16-0219 EA 20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	98.54	
26 05 19 16-0220 EA 30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	89.00	
26 05 19 16-0221 EA 30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	101.53	
26 05 19 16-0222 EA 30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	103.97	
26 05 19 16-0223 EA 30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	107.07	
26 05 19 16-0224 NEMA Twist-Lock Connector Bodies (26 05 19 16-0211)		
26 05 19 16-0225 EA 15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	72.94	
26 05 19 16-0226 EA 15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	77.65	
26 05 19 16-0227 EA 20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	67.73	
26 05 19 16-0228 EA 20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	89.00	
26 05 19 16-0229 EA 20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	102.75	
26 05 19 16-0230 EA 20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	109.40	
26 05 19 16-0231 EA 20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	131.78	
26 05 19 16-0232 EA 30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	126.13	
26 05 19 16-0233 EA 30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	154.17	
26 05 19 16-0234 EA 30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	161.59	
26 05 19 16-0235 EA 30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	153.50	
26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)		
26 05 19 16-0237 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	169.79	31.13
26 05 19 16-0238 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	171.35	31.13
26 05 19 16-0239 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	183.46	31.13
26 05 19 16-0240 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	186.04	34.24
26 05 19 16-0241 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	183.69	34.24
26 05 19 16-0242 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	184.39	34.24
26 05 19 16-0243 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	252.18	38.29
26 05 19 16-0244 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	246.33	38.29
26 05 19 16-0245 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	271.46	38.29
26 05 19 16-0246 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	269.97	42.03
26 05 19 16-0247 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	259.81	42.03
26 05 19 16-0248 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	266.80	42.03
26 05 19 16-0249 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	340.99	49.81
26 05 19 16-0250 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	346.56	49.81
26 05 19 16-0251 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	333.35	49.81
26 05 19 16-0252 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	378.66	55.41
26 05 19 16-0253 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	369.99	55.41
26 05 19 16-0254 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	373.74	55.41
26 05 19 16-0255 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	463.42	62.25
26 05 19 16-0256 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	484.94	62.25
26 05 19 16-0257 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	478.58	68.48
26 05 19 16-0258 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	471.23	68.48
26 05 19 16-0259 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	475.20	68.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)		
26 05 19 16-0261 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	178.76	31.13
26 05 19 16-0262 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	179.84	31.13
26 05 19 16-0263 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	207.73	31.13
26 05 19 16-0264 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	208.64	34.24
26 05 19 16-0265 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	205.81	34.24
26 05 19 16-0266 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	208.37	34.24
26 05 19 16-0267 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	257.54	38.29
26 05 19 16-0268 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	257.48	38.29
26 05 19 16-0269 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	267.10	38.29
26 05 19 16-0270 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	267.36	42.03
26 05 19 16-0271 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	269.34	42.03
26 05 19 16-0272 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	267.25	42.03
26 05 19 16-0273 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	395.96	49.81
26 05 19 16-0274 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	384.18	49.81
26 05 19 16-0275 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	377.16	49.81
26 05 19 16-0276 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	411.38	55.41
26 05 19 16-0277 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	421.62	55.41
26 05 19 16-0278 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	422.37	55.41
26 05 19 16-0279 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	523.72	62.25
26 05 19 16-0280 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	537.23	62.25
26 05 19 16-0281 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	581.42	68.48
26 05 19 16-0282 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	562.86	68.48
26 05 19 16-0283 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	569.19	68.48
26 05 19 16-0284 Accessories (26 05 19 16-0200)		
26 05 19 16-0285 EA 1/2" Straight Steel Cord Connector	39.88	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0286 EA 1/2" Straight Nylon Cord Connector	25.14	7.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 19 16-0287 EA 1/2" 90 Degree Steel Cord Connector	46.50	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 19 16-0288 EA 1/2" 90 Degree Nylon Cord Connector	31.03	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0289 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh	46.03	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 19 16-0290 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh	74.31	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 19 16-0291 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh	30.67	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0292 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh	48.26	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0293 EA 3/4" Straight Steel Cord Connector	41.23	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0294 EA 3/4" Straight Nylon Cord Connector	25.81	7.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 19 16-0295 EA 3/4" 90 Degree Steel Cord Connector	50.71	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector	33.15	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh	52.64	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh	62.32	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh	37.28	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh	44.94	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 19 16-0301 EA 1" Straight Steel Cord Connector	49.87	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector	30.13	7.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector	56.42	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector	36.00	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh	61.71	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh	68.31	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh	41.88	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh	48.83	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 19 16-0309 600 Volt Wire (26 05 19 16-0011)		
26 05 19 16-0310 Single Solid Conductor, Copper (26 05 19 16-0309)		
26 05 19 16-0311 MLF #14 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit	532.97	230.22
26 05 19 16-0312 MLF #12 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit	657.30	270.82

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0313 MLF #10 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit	797.10	331.15
26 05 19 16-0314 MLF #14 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit	672.97	230.22
26 05 19 16-0315 MLF #12 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit	804.50	270.82
26 05 19 16-0316 MLF #10 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit	951.13	331.15
26 05 19 16-0317 Power Cable, Stranded Conductor, Copper (26 05 19 16-0309)		
26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW (26 05 19 16-0317)		
26 05 19 16-0319 MLF #16 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	547.46	189.72
26 05 19 16-0320 MLF #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	650.06	227.66
26 05 19 16-0321 MLF #12 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	785.31	265.61
26 05 19 16-0322 MLF #10 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	942.61	303.54
26 05 19 16-0323 MLF #8 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	1,230.80	379.43
26 05 19 16-0324 MLF #6 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	1,604.91	455.31
26 05 19 16-0325 MLF #4 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	2,142.42	569.15
26 05 19 16-0326 MLF #3 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	2,506.19	645.03
26 05 19 16-0327 MLF #2 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	2,924.26	720.92
26 05 19 16-0328 MLF #1 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	3,527.28	796.81
26 05 19 16-0329 MLF 1/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	4,186.16	910.63
26 05 19 16-0330 MLF 2/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	4,947.62	1,024.46
26 05 19 16-0331 MLF 3/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	5,833.33	1,138.29
26 05 19 16-0332 MLF 4/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	6,877.33	1,252.12
26 05 19 16-0333 MLF 250 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	7,327.70	1,365.94
26 05 19 16-0334 MLF 300 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	8,547.58	1,479.78
26 05 19 16-0335 MLF 350 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	9,133.49	1,593.60
26 05 19 16-0336 MLF 400 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	10,140.57	1,707.43
26 05 19 16-0337 MLF 500 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	11,584.95	1,821.26
26 05 19 16-0338 MLF 600 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	13,216.19	1,973.03
26 05 19 16-0339 MLF 750 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	19,283.64	2,200.69
26 05 19 16-0340 MLF 1,000 MCM Cable - XLP (XHHW), 600 Volt Copper, Single Stranded, Placed In Conduit	26,670.81	2,580.12
26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW (26 05 19 16-0317)		
26 05 19 16-0342 MLF 2/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	1,300.11	455.22
26 05 19 16-0343 MLF 3/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	1,570.74	531.30
26 05 19 16-0344 MLF 4/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	1,936.32	645.03
26 05 19 16-0345 MLF 6/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,239.57	701.66
26 05 19 16-0346 MLF 7/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,392.95	739.79
26 05 19 16-0347 MLF 9/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,767.09	815.58
26 05 19 16-0348 MLF 10/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,206.08	850.11
26 05 19 16-0349 MLF 12/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	3,294.97	929.60
26 05 19 16-0350 MLF 14/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	3,599.45	986.71
26 05 19 16-0351 MLF 24/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	5,072.40	1,252.21
26 05 19 16-0352 MLF 37/c #14 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	7,641.78	1,859.21
26 05 19 16-0353 MLF 2/c #12 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	1,570.84	531.30
26 05 19 16-0354 MLF 3/c #12 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	1,976.60	645.03
26 05 19 16-0355 MLF 4/c #12 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,382.36	758.86
26 05 19 16-0356 MLF 2/c #10 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,074.20	682.69
26 05 19 16-0357 MLF 3/c #10 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,636.32	833.98
26 05 19 16-0358 MLF 4/c #10 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	3,391.45	1,062.59
26 05 19 16-0359 MLF 6/c #10 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	4,518.52	1,366.41
26 05 19 16-0360 MLF 9/c #10 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	6,017.37	1,745.47
26 05 19 16-0361 MLF 2/c #8 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	2,509.02	777.83
26 05 19 16-0362 MLF 3/c #8 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	3,123.24	910.63
26 05 19 16-0363 MLF 4/c #8 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	4,022.04	1,157.26
26 05 19 16-0364 MLF 2/c #6 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	3,115.05	872.69
26 05 19 16-0365 MLF 3/c #6 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	4,103.29	1,081.37
26 05 19 16-0366 MLF 4/c #6 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	5,200.70	1,333.70
26 05 19 16-0367 MLF 2/c #4 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	4,086.03	1,058.79
26 05 19 16-0368 MLF 3/c #4 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	5,186.31	1,211.05
26 05 19 16-0369 MLF 4/c #4 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	6,656.31	1,511.26
26 05 19 16-0370 MLF 2/c #2 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	5,468.11	1,289.68
26 05 19 16-0371 MLF 3/c #2 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	6,971.40	1,442.21
26 05 19 16-0372 MLF 4/c #2 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	9,230.73	1,897.14
26 05 19 16-0373 MLF 3/c #1 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	9,158.20	1,820.98
26 05 19 16-0374 MLF 4/c #1 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	11,830.12	2,275.63
26 05 19 16-0375 MLF 3/c #1/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	10,662.21	1,973.41
26 05 19 16-0376 MLF 3/c #2/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	12,848.45	2,275.63
26 05 19 16-0377 MLF 3/c #3/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	15,599.99	2,654.87
26 05 19 16-0378 MLF 4/c #3/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	20,483.94	3,413.44
26 05 19 16-0379 MLF 3/c #4/0 AWG Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	18,836.20	3,038.00
26 05 19 16-0380 MLF 3/c 250 MCM Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	20,272.00	3,413.44
26 05 19 16-0381 MLF 3/c 350 MCM Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	24,934.13	3,794.29
26 05 19 16-0382 MLF 3/c 500 MCM Cable - XLP (XHHW), 600 Volt Copper, Stranded, Placed In Conduit	31,520.69	4,170.12
26 05 19 16-0383 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper (26 05 19 16-0309) Note: Direct bury.		
26 05 19 16-0384 MLF #14 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	695.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0385 MLF #12 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	815.06	
26 05 19 16-0386 MLF #10 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	982.90	
26 05 19 16-0387 MLF #8 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	1,266.87	
26 05 19 16-0388 MLF #6 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	1,673.10	
26 05 19 16-0389 MLF #4 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	2,163.44	
26 05 19 16-0390 MLF #2 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	2,992.46	
26 05 19 16-0391 MLF #1 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	3,589.67	
26 05 19 16-0392 MLF #1/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	4,314.42	
26 05 19 16-0393 MLF #2/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	5,122.77	
26 05 19 16-0394 MLF #3/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	6,046.78	
26 05 19 16-0395 MLF #4/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	6,785.88	
26 05 19 16-0396 MLF 250 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	7,361.84	
26 05 19 16-0397 MLF 300 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	8,606.67	
26 05 19 16-0398 MLF 350 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	9,541.67	
26 05 19 16-0399 MLF 400 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	10,609.60	
26 05 19 16-0400 MLF 500 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	12,298.44	
26 05 19 16-0401 MLF 600 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	14,338.75	
26 05 19 16-0402 MLF 750 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits	21,464.66	
26 05 19 16-0403 MLF #14 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	809.46	
26 05 19 16-0404 MLF #12 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	985.66	
26 05 19 16-0405 MLF #10 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	1,210.12	
26 05 19 16-0406 MLF #8 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	1,469.63	
26 05 19 16-0407 MLF #6 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	1,957.90	
26 05 19 16-0408 MLF #4 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	2,678.82	
26 05 19 16-0409 MLF #2 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	3,744.37	
26 05 19 16-0410 MLF #1 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,546.59	
26 05 19 16-0411 MLF #1/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	5,128.56	
26 05 19 16-0412 MLF #2/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	5,784.08	
26 05 19 16-0413 MLF #3/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	6,829.56	
26 05 19 16-0414 MLF #4/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	8,142.82	
26 05 19 16-0415 MLF 250 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	9,348.73	
26 05 19 16-0416 MLF 300 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	10,633.66	
26 05 19 16-0417 MLF 350 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	12,048.42	
26 05 19 16-0418 MLF 400 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	13,519.71	
26 05 19 16-0419 MLF 500 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	16,092.96	
26 05 19 16-0420 MLF 750 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	28,662.93	
26 05 19 16-0421 MLF #14 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	543.13	
26 05 19 16-0422 MLF #12 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	667.66	
26 05 19 16-0423 MLF #10 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	811.98	
26 05 19 16-0424 MLF #8 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	1,111.31	
26 05 19 16-0425 MLF #6 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	1,469.34	
26 05 19 16-0426 MLF #4 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	1,889.54	
26 05 19 16-0427 MLF #2 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	2,645.55	
26 05 19 16-0428 MLF #1 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	3,108.64	
26 05 19 16-0429 MLF #1/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	3,612.90	
26 05 19 16-0430 MLF #2/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,067.37	
26 05 19 16-0431 MLF #3/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,741.20	
26 05 19 16-0432 MLF #4/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	5,581.85	
26 05 19 16-0433 MLF 250 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	6,482.91	
26 05 19 16-0434 MLF 300 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	7,417.46	
26 05 19 16-0435 MLF 350 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	8,414.31	
26 05 19 16-0436 MLF 400 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	9,379.72	
26 05 19 16-0437 MLF 500 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	10,977.73	
26 05 19 16-0438 MLF 600 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	13,484.83	
26 05 19 16-0439 MLF 750 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	19,844.07	
26 05 19 16-0440 MLF #2 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	4,027.72	
26 05 19 16-0441 MLF #1/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	5,696.65	
26 05 19 16-0442 MLF #2/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	6,334.13	
26 05 19 16-0443 MLF #3/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	7,177.06	
26 05 19 16-0444 MLF #4/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	7,967.55	
26 05 19 16-0445 MLF 250 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	8,597.82	
26 05 19 16-0446 MLF 350 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	12,076.00	
26 05 19 16-0447 MLF 400 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	13,110.94	
26 05 19 16-0448 MLF 500 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit	14,865.89	
26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0309)		
26 05 19 16-0450 ACTHH, Solid (26 05 19 16-0449)		
26 05 19 16-0451 MLF #8 AWG Cable - Type ACT, 1 Conductor, Solid	2,091.37	622.55
26 05 19 16-0452 MLF #6 AWG Cable - Type ACT, 1 Conductor, Solid	2,405.89	705.56
26 05 19 16-0453 MLF #4 AWG Cable - Type ACT, 1 Conductor, Solid	2,723.13	747.07
26 05 19 16-0454 MLF #14 AWG Cable - Type ACTHH, 2 Conductors, Solid	3,085.24	1,037.59
26 05 19 16-0455 MLF #12 AWG Cable - Type ACTHH, 2 Conductors, Solid	3,330.45	1,161.90
26 05 19 16-0456 MLF #10 AWG Cable - Type ACTHH, 2 Conductors, Solid	4,125.58	1,287.34
26 05 19 16-0457 MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Solid	5,258.19	1,411.64
26 05 19 16-0458 MLF #14 AWG Cable - Type ACTHH, 3 Conductors, Solid	3,684.78	1,161.90
26 05 19 16-0459 MLF #12 AWG Cable - Type ACTHH, 3 Conductors, Solid	3,894.95	1,287.34

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0460 MLF #10 AWG Cable - Type ACTHH, 3 Conductors, Solid	4,885.10	1,453.25
26 05 19 16-0461 MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Solid	6,191.87	1,576.93
26 05 19 16-0462 MLF #14 AWG Cable - Type ACTHH, 4 Conductors, Solid	4,345.19	1,287.34
26 05 19 16-0463 MLF #12 AWG Cable - Type ACTHH, 4 Conductors, Solid	4,782.48	1,453.25
26 05 19 16-0464 MLF #10 AWG Cable - Type ACTHH, 4 Conductors, Solid	5,971.42	1,618.74
26 05 19 16-0465 MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Solid	7,569.87	1,743.88
26 05 19 16-0466 ACTHH, Stranded (26 05 19 16-0449)		
26 05 19 16-0467 MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Stranded	5,466.69	1,495.06
26 05 19 16-0468 MLF #6 AWG Cable - Type ACTHH, 2 Conductors, Stranded	6,607.44	1,700.92
26 05 19 16-0469 MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Stranded	6,400.01	1,660.15
26 05 19 16-0470 MLF #6 AWG Cable - Type ACTHH, 3 Conductors, Stranded	7,922.90	1,866.21
26 05 19 16-0471 MLF #4 AWG Cable - Type ACTHH, 3 Conductors, Stranded	9,889.07	2,075.18
26 05 19 16-0472 MLF #3 AWG Cable - Type ACTHH, 3 Conductors, Stranded	11,319.00	2,280.42
26 05 19 16-0473 MLF #2 AWG Cable - Type ACTHH, 3 Conductors, Stranded	12,910.67	2,488.25
26 05 19 16-0474 MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Stranded	8,189.09	1,991.55
26 05 19 16-0475 MLF #6 AWG Cable - Type ACTHH, 4 Conductors, Stranded	9,812.99	2,198.24
26 05 19 16-0476 MLF #4 AWG Cable - Type ACTHH, 4 Conductors, Stranded	12,423.29	2,407.41
26 05 19 16-0477 MLF #3 AWG Cable - Type ACTHH, 4 Conductors, Stranded	13,603.08	2,613.59
26 05 19 16-0478 MLF #2 AWG Cable - Type ACTHH, 4 Conductors, Stranded	16,005.76	2,819.55
26 05 19 16-0479 HCFC, Solid (26 05 19 16-0449)		
26 05 19 16-0480 MLF #14 AWG Cable - Type HCF, 2 Conductors, Solid	3,393.81	1,037.59
26 05 19 16-0481 MLF #12 AWG Cable - Type HCF, 2 Conductors, Solid	3,730.14	1,165.83
26 05 19 16-0482 MLF #10 AWG Cable - Type HCF, 2 Conductors, Solid	4,158.79	1,281.01
26 05 19 16-0483 MLF #14 AWG Cable - Type HCF, 3 Conductors, Solid	4,070.19	1,165.83
26 05 19 16-0484 MLF #12 AWG Cable - Type HCF, 3 Conductors, Solid	4,381.31	1,281.01
26 05 19 16-0485 MLF #10 AWG Cable - Type HCF, 3 Conductors, Solid	5,628.08	1,461.44
26 05 19 16-0486 MLF #14 AWG Cable - Type HCF, 4 Conductors, Solid	4,928.68	1,281.01
26 05 19 16-0487 MLF #12 AWG Cable - Type HCF, 4 Conductors, Solid	5,414.62	1,461.44
26 05 19 16-0488 MLF #10 AWG Cable - Type HCF, 4 Conductors, Solid	7,222.31	1,621.24
26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0449)		
26 05 19 16-0490 MLF #14 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,110.37	1,037.59
26 05 19 16-0491 MLF #12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,476.22	1,165.83
26 05 19 16-0492 MLF #10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,141.58	1,281.01
26 05 19 16-0493 MLF #8 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	5,213.67	1,368.90
26 05 19 16-0494 MLF #6 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor	6,413.69	1,451.17
26 05 19 16-0495 MLF #14 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	3,582.44	1,165.83
26 05 19 16-0496 MLF #12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,031.42	1,281.01
26 05 19 16-0497 MLF #10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	5,071.84	1,461.44
26 05 19 16-0498 MLF #8 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	6,492.50	1,576.93
26 05 19 16-0499 MLF #6 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	7,549.05	1,700.92
26 05 19 16-0500 MLF #4 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	9,257.06	1,826.79
26 05 19 16-0501 MLF #2 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor	11,744.58	1,950.36
26 05 19 16-0502 MLF #14 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,131.94	1,281.01
26 05 19 16-0503 MLF #12 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	4,731.71	1,461.44
26 05 19 16-0504 MLF #10 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	6,972.85	1,621.24
26 05 19 16-0505 MLF #8 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	9,333.50	1,785.90
26 05 19 16-0506 MLF #6 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	11,325.93	1,910.83
26 05 19 16-0507 MLF #4 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	14,800.26	2,034.51
26 05 19 16-0508 MLF #2 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor	18,980.33	2,157.16
26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0449)		
26 05 19 16-0510 MLF #14 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Aluminum Armor	3,087.51	1,037.59
26 05 19 16-0511 MLF #12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Aluminum Armor	3,416.94	1,165.83
26 05 19 16-0512 MLF #10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Aluminum Armor	4,089.16	1,281.01
26 05 19 16-0513 MLF #14 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Aluminum Armor	3,677.91	1,165.83
26 05 19 16-0514 MLF #12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Aluminum Armor	3,978.76	1,281.01
26 05 19 16-0515 MLF #10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Aluminum Armor	5,030.20	1,461.44
26 05 19 16-0516 MLF #14 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Aluminum Armor	4,585.81	1,281.01
26 05 19 16-0517 MLF #12 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Aluminum Armor	5,060.67	1,461.44
26 05 19 16-0518 MLF #10 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Aluminum Armor	6,972.85	1,621.24
26 05 19 16-0519 FPLP Solid TFN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0520 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	2,821.72	788.57
26 05 19 16-0521 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,219.15	913.08
26 05 19 16-0522 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	3,911.23	1,037.59
26 05 19 16-0523 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,462.60	1,162.10
26 05 19 16-0524 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	3,224.76	913.08
26 05 19 16-0525 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	3,776.65	1,037.59
26 05 19 16-0526 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,624.20	1,162.10
26 05 19 16-0527 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,230.64	1,286.61



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0528 FPLP Solid THHN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0529 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	3,601.80	1,037.59
26 05 19 16-0530 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	4,366.26	1,162.10
26 05 19 16-0531 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	5,591.05	1,286.61
26 05 19 16-0532 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	6,414.65	1,411.12
26 05 19 16-0533 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	4,420.29	1,162.10
26 05 19 16-0534 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	5,294.87	1,286.61
26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0536 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	3,005.24	788.57
26 05 19 16-0537 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,730.23	1,162.10
26 05 19 16-0538 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	3,648.38	913.08
26 05 19 16-0539 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	4,275.21	1,037.59
26 05 19 16-0540 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	5,813.82	1,286.61
26 05 19 16-0541 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	4,281.59	1,079.10
26 05 19 16-0542 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	5,215.58	1,245.11
26 05 19 16-0543 Armored Cable Connectors (26 05 19 16-0449)		
26 05 19 16-0544 EA 3/4" Armored Cable Connector	6.07	2.27
For Work In Restricted Working Space, Add	1.71	
For Installation Above 14', Add	0.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.71	
26 05 19 16-0545 EA 1" Armored Cable Connector	7.15	2.66
For Work In Restricted Working Space, Add	1.99	
For Installation Above 14', Add	1.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.99	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector	10.17	3.80
For Work In Restricted Working Space, Add	2.85	
For Installation Above 14', Add	1.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0309)		
26 05 19 16-0548 MLF #14 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	700.35	152.05
For EPR Insulation, Add	19.68	
For Hypalon (CSPE) Jacket, Add	45.92	
26 05 19 16-0549 MLF #12 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	797.74	168.38
For EPR Insulation, Add	20.06	
For Hypalon (CSPE) Jacket, Add	46.81	
26 05 19 16-0550 MLF #10 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	954.13	210.49
For EPR Insulation, Add	29.29	
For Hypalon (CSPE) Jacket, Add	68.34	
26 05 19 16-0551 MLF #8 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	1,269.60	334.85
For EPR Insulation, Add	48.15	
For Hypalon (CSPE) Jacket, Add	112.36	
26 05 19 16-0552 MLF #6 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	1,677.72	401.81
For EPR Insulation, Add	80.91	
For Hypalon (CSPE) Jacket, Add	188.80	
26 05 19 16-0553 MLF #4 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	2,238.95	466.51
For EPR Insulation, Add	122.41	
For Hypalon (CSPE) Jacket, Add	285.63	
26 05 19 16-0554 MLF #3 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	2,550.46	533.96
For EPR Insulation, Add	140.68	
For Hypalon (CSPE) Jacket, Add	328.26	
26 05 19 16-0555 MLF #2 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	3,127.73	601.39
For EPR Insulation, Add	198.82	
For Hypalon (CSPE) Jacket, Add	463.90	
26 05 19 16-0556 MLF #1 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	3,782.89	669.78
For EPR Insulation, Add	268.63	
For Hypalon (CSPE) Jacket, Add	626.81	
26 05 19 16-0557 MLF #1/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	4,513.27	755.63
For EPR Insulation, Add	335.51	
For Hypalon (CSPE) Jacket, Add	782.85	
26 05 19 16-0558 MLF #2/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	5,372.73	837.97
For EPR Insulation, Add	421.74	
For Hypalon (CSPE) Jacket, Add	984.05	
26 05 19 16-0559 MLF #3/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	6,359.13	935.48
For EPR Insulation, Add	527.01	
For Hypalon (CSPE) Jacket, Add	1,229.69	
26 05 19 16-0560 MLF #4/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	7,142.60	1,040.11
For EPR Insulation, Add	601.85	
For Hypalon (CSPE) Jacket, Add	1,404.31	
26 05 19 16-0561 MLF 250 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	7,637.34	1,140.75
For EPR Insulation, Add	633.37	
For Hypalon (CSPE) Jacket, Add	1,477.87	
26 05 19 16-0562 MLF 300 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit	8,886.05	1,254.01
For EPR Insulation, Add	777.99	
For Hypalon (CSPE) Jacket, Add	1,815.32	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0563 MLF 350 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Hypalon (CSPE) Jacket, Add</i>	9,858.09 881.11 2,055.93	1,329.43
26 05 19 16-0564 MLF 400 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Hypalon (CSPE) Jacket, Add</i>	10,970.61 1,005.30 2,345.71	1,485.84
26 05 19 16-0565 MLF 500 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Hypalon (CSPE) Jacket, Add</i>	12,411.93 1,178.82 2,750.57	1,652.51
26 05 19 16-0566 MLF 600 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Hypalon (CSPE) Jacket, Add</i>	14,380.32 1,417.16 3,306.71	1,719.29
26 05 19 16-0567 MLF 750 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Hypalon (CSPE) Jacket, Add</i>	22,373.42 2,530.76 5,905.10	1,785.98
26 05 19 16-0568 MLF 1,000 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Hypalon (CSPE) Jacket, Add</i>	27,771.58 3,283.56 7,661.65	1,908.34
26 05 19 16-0569 MLF #16 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,177.91	341.30
26 05 19 16-0570 MLF #14 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,430.15	379.43
26 05 19 16-0571 MLF #12 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,776.15	455.70
26 05 19 16-0572 MLF #10 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,098.00	531.01
26 05 19 16-0573 MLF #8 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,925.64	568.58
26 05 19 16-0574 MLF #18 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit.....	419.34	189.72
26 05 19 16-0575 MLF #16 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit.....	523.40	208.69
26 05 19 16-0576 MLF #14 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	543.13	152.15
26 05 19 16-0577 MLF #12 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	667.66	181.36
26 05 19 16-0578 MLF #10 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	812.00	228.13
26 05 19 16-0579 MLF #8 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,111.31	300.70
26 05 19 16-0580 MLF #6 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,469.34	363.12
26 05 19 16-0581 MLF #4 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,889.54	429.13
26 05 19 16-0582 MLF #3 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,239.98	485.77
26 05 19 16-0583 MLF #2 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,645.55	544.01
26 05 19 16-0584 MLF #1 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,108.64	613.92
26 05 19 16-0585 MLF #1/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,612.90	672.25
26 05 19 16-0586 MLF #2/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,067.37	742.92
26 05 19 16-0587 MLF #3/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,741.20	785.79
26 05 19 16-0588 MLF #4/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,581.85	884.07
26 05 19 16-0589 MLF 250 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,482.91	940.51
26 05 19 16-0590 MLF 300 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,417.46	1,065.16
26 05 19 16-0591 MLF 350 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,414.32	1,178.79
26 05 19 16-0592 MLF 400 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	9,379.74	1,211.05
26 05 19 16-0593 MLF 500 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	10,977.73	1,281.24
26 05 19 16-0594 MLF 600 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	13,389.97	1,507.75
26 05 19 16-0595 MLF 750 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	19,844.05	1,785.98
26 05 19 16-0596 MLF 1,000 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	23,682.66	2,156.30
26 05 19 16-0597 MLF #16 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,023.49	455.70
26 05 19 16-0598 MLF #14 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,266.18	531.01
26 05 19 16-0599 MLF #12 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,620.17	607.56
26 05 19 16-0600 MLF #10 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,332.42	682.69
26 05 19 16-0601 MLF #8 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,765.90	758.86
26 05 19 16-0602 MLF #6 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,711.73	833.98

26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0309)

26 05 19 16-0604 MLF #6 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	993.42	284.49
26 05 19 16-0605 MLF #4 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,174.85	330.80
26 05 19 16-0606 MLF #2 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,533.71	424.64
26 05 19 16-0607 MLF #1 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,876.89	474.18
26 05 19 16-0608 MLF #1/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,165.44	534.24
26 05 19 16-0609 MLF #2/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,454.73	589.65
26 05 19 16-0610 MLF #3/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,881.86	665.45
26 05 19 16-0611 MLF #4/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,189.10	734.17
26 05 19 16-0612 MLF 250 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,670.30	807.08
26 05 19 16-0613 MLF 300 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,476.88	877.69
26 05 19 16-0614 MLF 350 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,691.15	948.28
26 05 19 16-0615 MLF 400 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	5,349.77	1,054.75
26 05 19 16-0616 MLF 500 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	5,895.31	1,161.17
26 05 19 16-0617 MLF 600 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	7,172.91	1,352.64
26 05 19 16-0618 MLF 700 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	8,083.97	1,482.86
26 05 19 16-0619 MLF 750 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	8,265.91	1,537.84
26 05 19 16-0620 MLF 1,000 MCM Cable - Type THHN-THWN, 600 Volt, Aluminum, Single Stranded, Placed In Conduit.....	11,246.35	1,865.48
26 05 19 16-0621 MLF #8 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,076.42	336.84
26 05 19 16-0622 MLF #6 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,211.12	379.43
26 05 19 16-0623 MLF #4 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,490.56	466.79
26 05 19 16-0624 MLF #2 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,869.82	572.17
26 05 19 16-0625 MLF #1 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,327.29	673.58
26 05 19 16-0626 MLF 1/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,669.97	759.14
26 05 19 16-0627 MLF 2/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,020.31	843.19
26 05 19 16-0628 MLF 3/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,433.19	919.93
26 05 19 16-0629 MLF 4/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,706.98	979.02
26 05 19 16-0630 MLF 250 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,156.22	1,047.51



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0631 MLF 300 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	4,930.24	1,122.63
26 05 19 16-0632 MLF 350 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	5,190.55	1,212.75
26 05 19 16-0633 MLF 400 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	5,830.15	1,322.50
26 05 19 16-0634 MLF 500 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	6,578.21	1,517.72
26 05 19 16-0635 MLF 600 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	7,520.41	1,597.21
26 05 19 16-0636 MLF 700 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	8,281.75	1,683.91
26 05 19 16-0637 MLF 750 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	8,587.51	1,789.57
26 05 19 16-0638 MLF 1,000 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit	12,394.08	2,508.03
26 05 19 16-0639 MLF #6 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	1,059.08	379.43
26 05 19 16-0640 MLF #4 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	1,308.70	466.70
26 05 19 16-0641 MLF #2 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	1,615.51	572.94
26 05 19 16-0642 MLF #1 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	1,936.43	669.78
26 05 19 16-0643 MLF #1/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	2,185.82	755.63
26 05 19 16-0644 MLF #2/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	2,442.25	837.97
26 05 19 16-0645 MLF #3/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	2,735.57	919.93
26 05 19 16-0646 MLF #4/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	2,940.12	979.02
26 05 19 16-0647 MLF 250 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	3,217.01	1,046.85
26 05 19 16-0648 MLF 300 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	3,631.02	1,124.06
26 05 19 16-0649 MLF 350 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	3,888.40	1,214.36
26 05 19 16-0650 MLF 400 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	4,258.57	1,319.47
26 05 19 16-0651 MLF 500 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	4,899.32	1,517.72
26 05 19 16-0652 MLF 600 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	5,339.90	1,592.94
26 05 19 16-0653 MLF 700 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	5,769.53	1,683.91
26 05 19 16-0654 MLF 750 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit	6,058.06	1,784.17
26 05 19 16-0655 Non-Metallic Sheathed Cable (26 05 19 16-0309)		
26 05 19 16-0656 Indoor Installation (26 05 19 16-0655)		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0657 MLF #14-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,050.35	720.82
For Installation In Wood Stud Wall (Includes Drilling), Add	270.30	
26 05 19 16-0658 MLF #14-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,519.11	872.69
For Installation In Wood Stud Wall (Includes Drilling), Add	327.27	
26 05 19 16-0659 MLF #12-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,264.96	819.56
For Installation In Wood Stud Wall (Includes Drilling), Add	291.69	
26 05 19 16-0660 MLF #12-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,771.14	910.44
For Installation In Wood Stud Wall (Includes Drilling), Add	341.43	
26 05 19 16-0661 MLF #10-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	2,806.67	910.91
For Installation In Wood Stud Wall (Includes Drilling), Add	341.60	
26 05 19 16-0662 MLF #10-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	3,424.06	1,062.59
For Installation In Wood Stud Wall (Includes Drilling), Add	398.47	
26 05 19 16-0663 MLF #8-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	3,536.06	1,090.86
For Installation In Wood Stud Wall (Includes Drilling), Add	388.44	
26 05 19 16-0664 MLF #8-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	4,558.92	1,318.52
For Installation In Wood Stud Wall (Includes Drilling), Add	469.55	
26 05 19 16-0665 MLF #6-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	4,230.88	1,242.63
For Installation In Wood Stud Wall (Includes Drilling), Add	441.09	
26 05 19 16-0666 MLF #6-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	5,422.34	1,498.75
For Installation In Wood Stud Wall (Includes Drilling), Add	533.57	
26 05 19 16-0667 MLF #4-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	6,937.61	1,650.52
For Installation In Wood Stud Wall (Includes Drilling), Add	586.93	
26 05 19 16-0668 MLF #2-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable	9,495.26	1,792.80
For Installation In Wood Stud Wall (Includes Drilling), Add	640.28	
26 05 19 16-0669 Direct Burial Cable (26 05 19 16-0655)		
Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0670 MLF #14-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,118.40	
26 05 19 16-0671 MLF #14-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,675.32	
26 05 19 16-0672 MLF #12-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,661.35	
26 05 19 16-0673 MLF #12-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	3,094.57	
26 05 19 16-0674 MLF #10-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	2,882.02	
26 05 19 16-0675 MLF #10-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	3,610.91	
26 05 19 16-0676 MLF #8-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	3,721.36	
26 05 19 16-0677 MLF #8-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	4,651.45	
26 05 19 16-0678 MLF #6-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	4,685.81	
26 05 19 16-0679 MLF #6-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching	5,565.39	
26 05 19 16-0680 SEU Cable Copper, 3 Conductor (26 05 19 16-0655)		
26 05 19 16-0681 MLF 12-12-12 Cable SEU Copper	2,570.81	913.39
26 05 19 16-0682 MLF 10-10-10 Cable SEU Copper	3,107.71	1,037.59
26 05 19 16-0683 MLF 8-8-8 Cable SEU Copper	3,725.94	1,161.90
26 05 19 16-0684 MLF 6-6-6 Cable SEU Copper	4,327.85	1,245.63
26 05 19 16-0685 MLF 6-6-6 Cable SEU Copper	4,598.24	1,287.34
26 05 19 16-0686 MLF 4-4-6 Cable SEU Copper	5,433.74	1,411.64
26 05 19 16-0687 MLF 4-4-4 Cable SEU Copper	5,781.02	1,453.25
26 05 19 16-0688 MLF 3-3-5 Cable SEU Copper	6,605.84	1,576.93
26 05 19 16-0689 MLF 3-3-3 Cable SEU Copper	7,000.46	1,660.15
26 05 19 16-0690 MLF 2-2-4 Cable SEU Copper	7,446.19	1,743.88
26 05 19 16-0691 MLF 2-2-2 Cable SEU Copper	7,920.11	1,826.79

26 Electrical**26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0692 MLF 1-1-1 Cable SEU Copper	9,520.11	2,075.18
26 05 19 16-0693 MLF 1/0-1/0-1/0 Cable SEU Copper	11,174.42	2,326.49
26 05 19 16-0694 MLF 2/0-2/0-2/0 Cable SEU Copper	13,259.67	2,620.22
26 05 19 16-0695 MLF 3/0-3/0-3/0 Cable SEU Copper	15,695.34	2,914.59
26 05 19 16-0696 MLF 4/0-4/0-4/0 Cable SEU Copper	17,535.44	3,252.64
26 05 19 16-0697 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0655)		
26 05 19 16-0698 MLF 8-8-8 Cable SEU Aluminum	3,358.48	1,165.83
26 05 19 16-0699 MLF 6-6-6 Cable SEU Aluminum	3,773.16	1,281.01
26 05 19 16-0700 MLF 4-4-6 Cable SEU Aluminum	4,195.41	1,402.20
26 05 19 16-0701 MLF 4-4-4 Cable SEU Aluminum	4,385.21	1,461.44
26 05 19 16-0702 MLF 2-2-4 Cable SEU Aluminum	5,224.65	1,729.35
26 05 19 16-0703 MLF 2-2-2 Cable SEU Aluminum	5,528.39	1,820.35
26 05 19 16-0704 MLF 1-1-1 Cable SEU Aluminum	6,512.67	2,075.18
26 05 19 16-0705 MLF 1/0-1/0-2 Cable SEU Aluminum	6,879.88	2,184.44
26 05 19 16-0706 MLF 1/0-1/0-1/0 Cable SEU Aluminum	7,960.83	2,305.73
26 05 19 16-0707 MLF 2/0-2/0-1 Cable SEU Aluminum	7,772.56	2,470.51
26 05 19 16-0708 MLF 2/0-2/0-2/0 Cable SEU Aluminum	8,192.77	2,593.98
26 05 19 16-0709 MLF 3/0-3/0-1/0 Cable SEU Aluminum	8,799.02	2,716.21
26 05 19 16-0710 MLF 3/0-3/0-3/0 Cable SEU Aluminum	9,386.28	2,882.22
26 05 19 16-0711 MLF 4/0-4/0-2/0 Cable SEU Aluminum	9,993.52	3,115.89
26 05 19 16-0712 MLF 4/0-4/0-4/0 Cable SEU Aluminum	10,499.01	3,242.48
26 05 19 16-0713 SER Cable Copper, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0714 MLF 6-6-6-6 Cable SER Copper	6,721.57	1,495.06
26 05 19 16-0715 MLF 4-4-4-6 Cable SER Copper	8,347.30	1,618.74
26 05 19 16-0716 MLF 3-3-3-5 Cable SER Copper	9,724.29	1,826.79
26 05 19 16-0717 MLF 2-2-2-4 Cable SER Copper	11,205.54	1,991.55
26 05 19 16-0718 MLF 1-1-1-3 Cable SER Copper	13,497.98	2,280.42
26 05 19 16-0719 MLF 1/0-1/0-1/0-2 Cable SER Copper	16,873.02	2,613.59
26 05 19 16-0720 MLF 2/0-2/0-2/0-1 Cable SER Copper	19,839.97	2,819.55
26 05 19 16-0721 MLF 3/0-3/0-3/0-1/0 Cable SER Copper	23,675.27	3,153.76
26 05 19 16-0722 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011)		
Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0723 ACSR Cable (26 05 19 16-0722)		
26 05 19 16-0724 MLF #4 AWG ACSR Cable Swan 6/1 Installed On Poles, Aluminum Cable	1,274.91	458.57
26 05 19 16-0725 MLF #4 AWG ACSR Cable Swanate 7/1 Installed On Poles, Aluminum Cable	1,337.72	476.15
26 05 19 16-0726 MLF #2 AWG ACSR Cable Sparrow 6/1 Installed On Poles, Aluminum Cable	1,414.54	494.48
26 05 19 16-0727 MLF #2 AWG ACSR Cable Sparate 7/1 Installed On Poles, Aluminum Cable	1,477.92	512.39
26 05 19 16-0728 MLF #1/0 AWG ACSR Cable Raven 6/1 Installed On Poles, Aluminum Cable	1,583.57	529.77
26 05 19 16-0729 MLF #2/0 AWG ACSR Cable Quail 6/1 Installed On Poles, Aluminum Cable	1,819.52	600.54
26 05 19 16-0730 MLF #3/0 AWG ACSR Cable Pigeon 6/1 Installed On Poles, Aluminum Cable	2,066.32	669.73
26 05 19 16-0731 MLF #4/0 AWG ACSR Cable Penguin 6/1 Installed On Poles, Aluminum Cable	2,330.01	739.87
26 05 19 16-0732 MLF #1 Bare Aluminum Wire	1,827.80	654.89
26 05 19 16-0733 MLF 336 AWG ACSR Cable Merlin 18/1 Installed On Pole, Aluminum Cable	2,858.35	950.82
26 05 19 16-0734 MLF 477 AWG ACSR Cable Hawk 26/1 Installed On Pole, Aluminum Cable	3,265.26	1,090.68
26 05 19 16-0735 All Aluminum Conductors (26 05 19 16-0722)		
26 05 19 16-0736 MLF 795.0 ACSR Conductor Aluminum	24,283.27	8,880.61
26 05 19 16-0737 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0738 Bare Stranded Conductor (26 05 19 16-0737)		
26 05 19 16-0739 MLF #12 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	1,092.80	388.53
26 05 19 16-0740 MLF #10 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	1,247.81	423.50
26 05 19 16-0741 MLF #8 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	1,403.94	458.88
26 05 19 16-0742 MLF #6 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	1,650.50	494.48
26 05 19 16-0743 MLF #4 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	1,934.06	530.19
26 05 19 16-0744 MLF #2 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	2,643.34	635.93
26 05 19 16-0745 MLF #1 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	3,012.52	706.39
26 05 19 16-0746 MLF #1/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	3,406.54	775.58
26 05 19 16-0747 MLF #2/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	4,445.20	919.89
26 05 19 16-0748 MLF #3/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	5,334.05	1,057.62
26 05 19 16-0749 MLF #4/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles	5,790.28	1,198.65
26 05 19 16-0750 MLF 250 MCM 1/c Bare Stranded Copper Cable, Installed On Poles	7,222.11	1,412.67
26 05 19 16-0751 MLF 300 MCM 1/c Bare Stranded Copper Cable, Installed On Poles	7,430.77	1,487.06
26 05 19 16-0752 MLF 350 MCM 1/c Bare Stranded Copper Cable, Installed On Poles	8,970.39	1,557.31
26 05 19 16-0753 MLF 400 MCM 1/c Bare Stranded Copper Cable, Installed On Poles	9,810.73	1,621.20
26 05 19 16-0754 MLF 500 MCM 1/c Bare Stranded Copper Cable, Installed On Poles	11,232.73	1,690.38
26 05 19 16-0755 Insulated Stranded Conductor (26 05 19 16-0737)		
26 05 19 16-0756 MLF #12 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,149.16	388.53
26 05 19 16-0757 MLF #10 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,320.53	423.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0758 MLF #8 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,547.51	458.88
26 05 19 16-0759 MLF #6 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,677.67	494.48
26 05 19 16-0760 MLF #4 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	1,975.52	530.19
26 05 19 16-0761 MLF #2 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	2,583.47	635.93
26 05 19 16-0762 MLF #1 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	3,006.54	706.39
26 05 19 16-0763 MLF #1/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	3,489.91	775.58
26 05 19 16-0764 MLF #2/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	4,189.19	919.89
26 05 19 16-0765 MLF #3/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	4,977.20	1,057.62
26 05 19 16-0766 MLF #4/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles	5,818.12	1,198.65
26 05 19 16-0767 MLF 250 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	7,051.78	1,412.67
26 05 19 16-0768 MLF 300 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	7,881.63	1,487.06
26 05 19 16-0769 MLF 350 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	8,568.21	1,557.31
26 05 19 16-0770 MLF 400 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	9,477.26	1,621.20
26 05 19 16-0771 MLF 500 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles	10,523.46	1,690.38
26 05 19 16-0772 Bare Solid Conductor (26 05 19 16-0737)		
26 05 19 16-0773 MLF #12 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,092.80	388.53
26 05 19 16-0774 MLF #8 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,403.94	458.88
26 05 19 16-0775 MLF #6 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,650.50	494.48
26 05 19 16-0776 MLF #4 AWG 1/c Bare Solid Copper Cable, Installed On Poles	1,916.93	530.19
26 05 19 23 Manufactured Wiring Assemblies (26 05 19)		
26 05 19 23-0001 Festoon Cable Systems Complete System (26 05 19 23)		
26 05 19 23-0002 Components (26 05 19 23-0001)		
26 05 19 23-0003 LF 20' C Channel Type Track, Galvanized Steel Festoon Cable System Components	13.86	6.22
26 05 19 23-0004 EA Channel Track Hanger, Plated Steel Festoon Cable System Components	55.07	22.83
26 05 19 23-0005 EA Channel Track Joint Clamp Assembly Festoon Cable System Components	45.04	22.83
26 05 19 23-0006 EA End Stop For Channel Track Festoon Cable System Components	11.44	5.19
26 05 19 23-0007 EA End Clamp And Cable Saddle Assembly With Steel Saddle, Festoon Cable System	57.19	25.94
26 05 19 23-0008 EA Cable Supplying Trolley, Steel Saddle With Stainless Steel Ball Bearing Wheel, Festoon Cable	43.10	2.07
26 05 19 23-0009 EA Towing Trolley Assembly With Steel Saddle With Stainless Steel Ball Bearing Wheel, Festoon Cable	49.45	2.07
26 05 19 23-0010 EA J-Box With 2 Terminal Blocks And Bracket Festoon Cable System Components	330.21	129.70
26 05 19 23-0011 EA Watertight Connector For Flat Cable Festoon Cable System Components	29.62	10.39
26 05 19 23-0012 Cable (26 05 19 23-0001)		
26 05 19 23-0013 LF 12/c #16 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.78	2.07
26 05 19 23-0014 LF 12/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	7.24	2.07
26 05 19 23-0015 LF 8/c #16 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.32	2.07
26 05 19 23-0016 LF 8/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.30	2.07
26 05 19 23-0017 LF 7/c #12 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	6.78	2.07
26 05 19 23-0018 LF 4/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	5.32	2.07
26 05 19 23-0019 LF 4/c #12 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt	5.57	2.07
26 05 19 23-0020 Complete Systems (26 05 19 23-0001)		
26 05 19 23-0021 EA Festoon System, 80' Long, Complete With 7/c #12 And 4/c #14, Wet Environment	5,487.00	2,075.18
Note: Includes 10 each cable trolleys with steel saddle, stainless steel wheels, 1 each J-box with terminal strips and brackets, 80 LF C type track, 20' sections, 9 each hangars, 3 each joints, 2 each end stop, 1 each end clamp with steel saddle, 1 each towing trolley with steel saddle, 2 each watertight connectors for 4/c #14, 2 each watertight connectors for 7/c #12, 80 LF each type cable as listed.		
26 05 23 Control-Voltage Electrical Power Cables (26 05)		
26 05 23 00-0001 Cable For Sound System (26 05 23)		
26 05 23 00-0002 Shielded Conductors (26 05 23 00-0001)		
Note: One pair, stranded or solid, copper, PVC jacketed, sizes as indicated on tasks.		
26 05 23 00-0003 MLF 1 Pair #20 AWG Sound System, Placed In Conduit, Shielded	819.65	379.43
26 05 23 00-0004 MLF 1 Pair #14 AWG Sound System, Placed In Conduit, Shielded	1,217.16	379.43
26 05 23 00-0005 MLF 3 Conductor, #16 AWG Sound System, Placed In Conduit, Shielded	1,038.23	224.83
26 05 23 00-0006 MLF 6 Conductor, #18 AWG Sound System, Placed In Conduit, Shielded	1,088.92	229.93
26 05 23 00-0007 Cable For HVAC System Controls (26 05 23)		
26 05 23 00-0008 Low Voltage Thermostat Cable To 300 Volts (26 05 23 00-0007)		
Note: For surface or conduit installation.		
26 05 23 00-0009 MLF #20/2 Conductor, Low Volt Thermostat Cable	396.85	120.94
26 05 23 00-0010 MLF #20/3 Conductor, Low Volt Thermostat Cable	449.58	127.39
26 05 23 00-0011 MLF #20/4 Conductor, Low Volt Thermostat Cable	486.16	134.70
26 05 23 00-0012 MLF #20/5 Conductor, Low Volt Thermostat Cable	575.30	140.39
26 05 23 00-0013 MLF #20/6 Conductor, Low Volt Thermostat Cable	602.39	147.03
26 05 23 00-0014 MLF #20/7 Conductor, Low Volt Thermostat Cable	660.69	153.14
26 05 23 00-0015 MLF #20/8 Conductor, Low Volt Thermostat Cable	711.62	159.27
26 05 23 00-0016 MLF #20/9 Conductor, Low Volt Thermostat Cable	770.22	165.62
26 05 23 00-0017 MLF #20/10 Conductor, Low Volt Thermostat Cable	826.17	170.59

26 Electrical**26 05 Common Work Results For Electrical****26 05 23 Control-Voltage Electrical Power Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0018 MLF #18/2 Conductor, Low Volt Thermostat Cable	427.58	120.94
26 05 23 00-0019 MLF #18/3 Conductor, Low Volt Thermostat Cable	504.41	127.39
26 05 23 00-0020 MLF #18/4 Conductor, Low Volt Thermostat Cable	573.15	134.70
26 05 23 00-0021 MLF #18/5 Conductor, Low Volt Thermostat Cable	611.21	140.39
26 05 23 00-0022 MLF #18/6 Conductor, Low Volt Thermostat Cable	674.53	147.03
26 05 23 00-0023 MLF #18/7 Conductor, Low Volt Thermostat Cable	693.81	153.14
26 05 23 00-0024 MLF #18/8 Conductor, Low Volt Thermostat Cable	762.16	159.27
26 05 23 00-0025 MLF #18/9 Conductor, Low Volt Thermostat Cable	891.50	165.62
26 05 23 00-0026 MLF #18/10 Conductor, Low Volt Thermostat Cable	975.75	170.59

26 05 26 Grounding And Bonding For Electrical Systems (26 05)**26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)****26 05 26 00-0002 Single Conductor (26 05 26 00-0001)****26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)**

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor	459.97	192.58
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor	582.20	192.58
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor	705.22	231.97
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor	918.93	231.97
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor	1,189.29	280.12
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	1,791.59	280.12
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	2,052.89	337.02
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	2,401.00	337.02
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	3,292.91	424.55
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	4,024.06	424.55
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	4,315.21	564.61
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	5,462.75	564.61
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	5,511.56	652.14
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	7,302.06	652.14
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	9,886.88	805.33

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	775.70	262.61
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	850.10	262.61
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,067.58	262.61
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	1,234.30	455.19
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	1,626.53	455.19
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	2,242.16	455.19
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	2,681.37	796.58
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	3,242.87	796.58
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	3,756.80	796.58
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	4,420.72	796.58
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	5,167.05	1,041.69
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	6,177.14	1,041.69
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	7,144.88	1,041.69
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	8,479.85	1,619.43
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	10,927.81	1,619.43

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	459.97	192.58
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	582.20	192.58
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	705.22	231.97
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	918.93	231.97
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	1,189.29	280.12
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	1,791.59	280.12
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	2,401.00	337.02
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor	4,315.21	446.43

26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor	554.32	231.97
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor	605.27	231.97
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor	683.95	280.12
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor	843.05	280.12
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor	960.02	337.02
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	1,099.40	337.02
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	1,252.22	424.55
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	1,433.45	424.55
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	1,708.97	564.61
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor	1,906.14	564.61
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor	2,238.47	652.14
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor	2,523.91	652.14
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor	2,977.09	805.33

26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor	554.32	231.97
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor	605.27	231.97
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor	683.95	280.12
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor	843.05	280.12
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor	924.69	446.43
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor	1,099.40	446.43
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor	1,164.71	424.55
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	1,257.24	424.55
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	1,708.97	564.61
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor	1,906.14	564.61
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor	2,238.47	652.14
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor	2,523.91	652.14
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor	2,977.09	805.33
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.15	0.71
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.38	0.79
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.79	0.90
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.76	0.92
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	2.95	0.96
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amp, Copper Flexible Braid Jumper Strap, 12" Length	101.09	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 05 26 00-0080 EA 225 Amp, Copper Flexible Braid Jumper Strap, 12" Length	166.81	31.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 05 26 00-0081 EA 225 Amp, Copper Flexible Braid Jumper Strap, 18" Length	208.68	31.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 05 26 00-0082 EA 225 Amp, Copper Flexible Braid Jumper Strap, 24" Length	249.97	31.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 05 26 00-0083 EA 400 Amp, Copper Flexible Braid Jumper Strap, 12" Length	222.92	33.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.35	
26 05 26 00-0084 EA 400 Amp, Copper Flexible Braid Jumper Strap, 18" Length	283.14	33.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.35	
26 05 26 00-0085 EA 400 Amp, Copper Flexible Braid Jumper Strap, 24" Length	335.47	33.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.35	
26 05 26 00-0086 EA 600 Amp, Copper Flexible Braid Jumper Strap, 12" Length	285.79	42.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.68	
26 05 26 00-0087 EA 800 Amp, Copper Flexible Braid Jumper Strap, 12" Length	343.91	51.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper - Metallic Conduit.....	145.63	57.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.42	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper - Metallic Conduit.....	179.39	57.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.91	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper - Metallic Conduit.....	252.42	88.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.16	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper - Metallic Conduit.....	362.04	88.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.64	
26 05 26 00-0093 Ground Rods (26 05 26)		
26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods	87.03	77.82
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods	90.53	77.82
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods	104.66	77.82
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods	102.32	77.82
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods	106.70	77.82
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	124.36	77.82
26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	265.10	77.82
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	328.02	77.82
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	499.75	77.82
26 05 26 00-0105 Ground Access Wells (26 05 26 00-0093)		
26 05 26 00-0106 Precast Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well	170.48	
Note: With cast iron grate.		
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well	178.43	
Note: With cast iron grate.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0109	EA	12" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	465.51	
26 05 26 00-0110	EA	18" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	473.45	
26 05 26 00-0111		Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0112	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well..... Note: Schedule 40 with cast iron grated cover.	283.16	
26 05 26 00-0113	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well..... Note: Schedule 40 with cast iron grated cover.	330.16	
26 05 26 00-0114	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well..... Note: Schedule 40 with cast iron grated cover.	597.21	
26 05 26 00-0115	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well..... Note: Schedule 40 with flat steel cover.	271.48	
26 05 26 00-0116	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well..... Note: Schedule 40 with flat steel cover.	274.60	
26 05 26 00-0117	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well..... Note: Schedule 40 with flat steel cover.	573.55	
26 05 26 00-0118	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	158.99	
26 05 26 00-0119	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	170.18	
26 05 26 00-0120	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	179.40	
26 05 26 00-0121	EA	8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	126.32	
26 05 26 00-0122	EA	10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	179.60	
26 05 26 00-0123	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	305.13	
26 05 26 00-0124	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	399.64	
26 05 26 00-0125	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	249.80	
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	354.41	
26 05 26 00-0127	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	369.69	
26 05 26 00-0128	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	450.24	
26 05 26 00-0129	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	207.95	
26 05 26 00-0130	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	349.92	
26 05 26 00-0131	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	375.88	
26 05 26 00-0132		Polymer Concrete Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0133	EA	12" x 12" x 12" Polymer Concrete Ground Access Well.....	297.41	
26 05 26 00-0134	EA	12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	324.65	
26 05 26 00-0135	EA	12" x 12" x 18" Polymer Concrete Ground Access Well.....	326.64	
26 05 26 00-0136	EA	12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	356.54	
26 05 26 00-0137	EA	12" x 12" x 24" Polymer Concrete Ground Access Well.....	356.93	
26 05 26 00-0138	EA	12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	389.74	
26 05 26 00-0139	EA	13" x 24" x 18" Polymer Concrete Ground Access Well.....	470.13	
26 05 26 00-0140	EA	13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	514.65	
26 05 26 00-0141		High Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0142	EA	9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	117.43	
26 05 26 00-0143	EA	14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	161.30	
26 05 26 00-0144		Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0145		Bronze Ground Rod Clamp (26 05 26 00-0144)		
26 05 26 00-0146	EA	1/2" Bronze Ground Rod Clamp	20.52	11.72
26 05 26 00-0147	EA	5/8" Bronze Ground Rod Clamp	21.40	11.72
26 05 26 00-0148	EA	3/4" Bronze Ground Rod Clamp	22.66	11.72
26 05 26 00-0149		Bronze Pipe Clamps (26 05 26 00-0144)		
26 05 26 00-0150	EA	1/2" To 1" Bronze Pipe Ground Clamps.....	28.17	19.50
26 05 26 00-0151	EA	1-1/4" To 2" Bronze Ground Clamps For Pipe	36.07	23.34
26 05 26 00-0152	EA	2-1/2" To 3" Bronze Ground Clamps For Pipe	54.87	27.29
26 05 26 00-0153	EA	2-1/2" To 4" Bronze Ground Clamps For Pipe	66.84	35.07
26 05 26 00-0154	EA	4" To 6" Bronze Ground Clamps For Pipe	102.81	50.63
26 05 26 00-0155		Grounding Fittings (26 05 26 00-0144)		



Electrical		26
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 26 00-0156	Embedded Fittings (26 05 26 00-0155)			
26 05 26 00-0157	EA Ground Insert With 2 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded.....	138.08		
26 05 26 00-0158	EA Ground Insert With 4 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded.....	146.08		
26 05 26 00-0159	EA Ground Insert With 4 - 3/8 x 16 Holes 250-500 MCM Cable Range, Embedded.....	160.26		
26 05 26 00-0160	EA Grounding Wire Splice, Copper To Aluminum, #8 - 1 AWG.....	136.65		
26 05 26 00-0161	EA Grounding Wire Splice, Copper To Aluminum, 1/0 - 3/0 AWG.....	163.75		
26 05 26 00-0162	EA Grounding Wire Splice, Copper To Aluminum, 4/0 - 300 MCM.....	192.00		
26 05 26 00-0163	EA Grounding Wire Splice, Copper To Aluminum, 350 MCM And Up.....	216.22		
26 05 26 00-0164	Ground Rod Receptacle (26 05 26 00-0155)			
26 05 26 00-0165	EA 1/2" Ground Rod Receptacle.....	297.35		107.91
26 05 26 00-0166	EA 5/8" Ground Rod Receptacle.....	310.45		110.95
26 05 26 00-0167	EA 3/4" Ground Rod Receptacle.....	323.87		113.97
26 05 26 00-0168	Ground Kits For Circuit Breaker Panels (26 05 26 00-0155)			
26 05 26 00-0169	EA 14-8 AWG Copper Ground Kit.....	66.94		25.94
26 05 26 00-0170	EA 12-8 AWG Aluminum Ground Kit.....	58.51		25.94
26 05 26 00-0171	EA 14-4 AWG Copper Ground Kit.....	73.66		25.94
26 05 26 00-0172	EA 12-4 AWG Aluminum Ground Kit.....	63.15		25.94
26 05 26 00-0173	Insulated Grounding Bars (26 05 26 00-0144)			
26 05 26 00-0174	EA Insulated Ground Bar 1/2" x 4" x 10".....	273.92		26.05
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.69		
26 05 26 00-0175	EA Insulated Ground Bar SK 9560 1/2" x 4" x 20".....	286.90		26.05
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.69		
26 05 26 00-0176	Ground Conductor Bonding (26 05 26)			
26 05 26 00-0177	Ground Conductor Bonding (26 05 26 00-0176)			
26 05 26 00-0178	Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0177)			
26 05 26 00-0179	EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	121.62		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0180	EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	131.99		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0181	EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	142.37		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0182	EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	204.62		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0183	Tee, Wye Or Cross Cadweld (26 05 26 00-0177)			
26 05 26 00-0184	EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	137.18		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0185	EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross.....	157.93		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0186	EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross.....	194.25		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0187	EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	235.75		
	Note: Includes molds, materials and all necessary tools to make connections.			
26 05 26 00-0188	Grounding Equipment (26 05 26)			
26 05 26 00-0189	Special Grounding Equipment (26 05 26 00-0188)			
26 05 26 00-0190	Ground Reels And Ground Bus (26 05 26 00-0189)			
26 05 26 00-0191	EA Ground Reel With 50' Of Galvanized Steel Cable.....	619.17		
26 05 26 00-0192	Copper Bars (26 05 26 00-0189)			
26 05 26 00-0193	LF 1/4" x 2" Copper Bar.....	36.14		
26 05 26 00-0194	Phenolic Insulators (26 05 26 00-0189)			
26 05 26 00-0195	EA 2" x 2" x 1" Long Phenolic Insulators.....	26.78		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23		
26 05 26 00-0196	Grounding Studs (26 05 26 00-0189)			
26 05 26 00-0197	EA Ball Grounding Stud.....	38.86		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29		
26 05 26 00-0198	Equipment Ground Bar Kits (26 05 26 00-0189)			

26 Electrical**26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0199 EA Switch Rating 30 Ground Bar Kit .....29.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.23		
26 05 26 00-0200 EA Switch Rating 60 Ground Bar Kit .....37.71 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.85		
26 05 26 00-0201 EA Switch Rating 100 Ground Bar Kit .....43.88 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.78		
26 05 26 00-0202 EA Switch Rating 200 Ground Bar Kit .....74.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 9.34		
26 05 26 00-0203 Panelboard Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0204 EA Panelboard Ground Bar Kit .....106.58 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.78		7.78
26 05 26 00-0205 Circuit Breaker Ground Bar Kits (26 05 26 00-0189)		
26 05 26 00-0206 EA 3 Circuit, Ground Bar Kit .....24.61 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 4.67		4.67
26 05 26 00-0207 EA 4 Circuit, Ground Bar Kit .....24.19 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 4.67		4.67
26 05 26 00-0208 EA 7 Circuit, Ground Bar Kit .....24.89 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 4.67		4.67
26 05 26 00-0209 EA 12 Circuit, Ground Bar Kit .....28.21 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 5.29		5.29
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit .....32.09 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 5.92		5.91
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit .....35.42 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.54		6.54
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit .....39.64 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.47		7.47
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit .....45.87 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 8.72		8.72
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....49.46 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 6.54		6.54
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....54.79 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.47		7.47
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....61.17 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 8.72		8.72
26 05 29 Hangers And Supports For Electrical Systems (26 05)		
26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)		
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001)		
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....17.35		5.69
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....18.56		5.69
26 05 29 00-0007 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....8.35		2.14
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0009 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....25.87		5.69
26 05 29 00-0010 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....28.18		5.69
26 05 29 00-0011 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....35.61		5.69
26 05 29 00-0012 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....40.23		5.69
26 05 29 00-0013 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....16.87		2.14
26 05 29 00-0014 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....19.18		2.14
26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....35.85		5.69
26 05 29 00-0017 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....55.56		5.69
26 05 29 00-0018 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....26.85		2.14
26 05 29 00-0019 12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020 12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....18.34		5.69
26 05 29 00-0022 EA Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....18.00		5.69
26 05 29 00-0023 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....17.78		5.69
26 05 29 00-0024 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....20.54		5.69
26 05 29 00-0025 EA >1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....19.87		5.69
26 05 29 00-0026 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....19.44		5.69
26 05 29 00-0027 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....9.34		2.14
26 05 29 00-0028 LF >2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....9.00		2.14
26 05 29 00-0029 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....8.78		2.14



Electrical		26
Common Work Results For Electrical		26 05
Hangers And Supports For Electrical Systems		26 05 29

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0030 12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	28.94	5.69
26 05 29 00-0032 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	32.93	5.69
26 05 29 00-0033 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	41.76	5.69
26 05 29 00-0034 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	49.73	5.69
26 05 29 00-0035 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	19.94	2.14
26 05 29 00-0036 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	23.93	2.14
26 05 29 00-0037 Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038 Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039 Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040 LF Steel Raceway Closure Strip, Unistrut Channel Fittings.....	4.43	0.52
26 05 29 00-0041 EA Steel End Cap, Unistrut Channel Fittings.....	11.72	5.20
26 05 29 00-0042 Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043 EA Stainless Steel End Cap For Unistrut Channel.....	16.36	5.20
26 05 29 00-0044 Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0045 Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0046 EA 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	4.63	
26 05 29 00-0047 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	4.60	
26 05 29 00-0048 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.48	
26 05 29 00-0049 Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0050 EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	11.69	
26 05 29 00-0051 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	17.11	
26 05 29 00-0052 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	21.70	
26 05 29 00-0053 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0054 Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0055 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	4.50	
26 05 29 00-0056 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	3.86	
26 05 29 00-0057 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	6.25	
26 05 29 00-0058 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	6.17	
26 05 29 00-0059 Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0060 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	6.94	
26 05 29 00-0061 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	8.53	
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	7.32	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	10.16	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	9.33	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	16.74	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	9.78	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	13.93	
26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting.....	8.69	
26 05 29 00-0071 U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting.....	3.44	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting.....	3.77	
26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting.....	13.83	
26 05 29 00-0077 Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0078 Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting.....	8.91	
26 05 29 00-0080 Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0081	EA	3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	26.36	
26 05 29 00-0082		Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0037) Note: Includes hex screw and nut.		
26 05 29 00-0083		Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0084	EA	1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	4.06	1.55
26 05 29 00-0085	EA	3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	4.08	1.55
26 05 29 00-0086	EA	1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	4.15	1.55
26 05 29 00-0087	EA	1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.28	2.08
26 05 29 00-0088	EA	1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.67	2.08
26 05 29 00-0089	EA	2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.71	2.08
26 05 29 00-0090	EA	2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.03	2.60
26 05 29 00-0091	EA	3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.37	2.60
26 05 29 00-0092	EA	3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.70	2.60
26 05 29 00-0093	EA	4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.81	2.60
26 05 29 00-0094		304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0095	EA	1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.03	1.55
26 05 29 00-0096	EA	3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.63	1.55
26 05 29 00-0097	EA	1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.24	1.55
26 05 29 00-0098	EA	1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.06	2.08
26 05 29 00-0099	EA	1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.74	2.08
26 05 29 00-0100	EA	2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.19	2.08
26 05 29 00-0101	EA	2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.49	2.60
26 05 29 00-0102	EA	3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.99	2.60
26 05 29 00-0103	EA	3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.63	2.60
26 05 29 00-0104	EA	4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.00	2.60
26 05 29 00-0105		316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0106	EA	1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.40	1.55
26 05 29 00-0107	EA	3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.25	1.55
26 05 29 00-0108	EA	1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.50	1.55
26 05 29 00-0109	EA	1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.18	2.08
26 05 29 00-0110	EA	1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.12	2.08
26 05 29 00-0111	EA	2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.27	2.08
26 05 29 00-0112	EA	2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.63	2.60
26 05 29 00-0113	EA	3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.39	2.60
26 05 29 00-0114	EA	3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.80	2.60
26 05 29 00-0115	EA	4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	24.11	2.60
26 05 29 00-0116		Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0117		Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0118	EA	Set Screw Beam Clamp, Steel Unistrut Channel Fitting.....	28.87	9.49
26 05 29 00-0119	EA	"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings.....	21.26	9.49
26 05 29 00-0120	EA	"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting.....	28.10	9.49
26 05 29 00-0121		304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0122	EA	"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	36.89	9.49
26 05 29 00-0123		Square Washers For Unistrut Channel (26 05 29 00-0037)		
26 05 29 00-0124		Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0125	EA	1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	3.33	
26 05 29 00-0126		Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0127	EA	1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	3.63	
26 05 29 00-0128	EA	1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	4.45	
26 05 29 00-0129		Strut Braces, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0130	EA	16" Diagonal Steel Bar Brace For Unistrut Channel.....	23.48	
26 05 29 00-0131		Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0132	EA	Steel Trolley Track Hanger For Unistrut Channel.....	29.41	



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Hangers And Supports For Electrical Systems		26 05 29

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0133		Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0037) Note: Includes hex bolt.		
26 05 29 00-0134		Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133) Note: Includes hex bolt.		
26 05 29 00-0135	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	6.51	
26 05 29 00-0136	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	6.97	
26 05 29 00-0137	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	7.32	
26 05 29 00-0138	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	9.20	
26 05 29 00-0139		Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133) Note: Includes hex bolt.		
26 05 29 00-0140	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	10.26	
26 05 29 00-0141	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	10.82	
26 05 29 00-0142	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.69	
26 05 29 00-0143	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	24.06	
26 05 29 00-0144		Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0037) Note: Includes hex bolt.		
26 05 29 00-0145		Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144) Note: Includes hex bolt.		
26 05 29 00-0146	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	6.52	
26 05 29 00-0147	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	7.04	
26 05 29 00-0148	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	7.35	
26 05 29 00-0149	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	9.75	
26 05 29 00-0150		Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144) Note: Includes hex bolt.		
26 05 29 00-0151	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	7.78	
26 05 29 00-0152	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.07	
26 05 29 00-0153	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	9.75	
26 05 29 00-0154	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	23.48	
26 05 29 00-0155		Mounting Assemblies (26 05 29)		
26 05 29 00-0156		Galvanized Steel Mounting Assemblies (26 05 29 00-0155)		
26 05 29 00-0157		Galvanized Steel Back Plate (26 05 29 00-0156)		
26 05 29 00-0158	EA	1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	340.68	62.25
26 05 29 00-0159	EA	3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	87.07	20.75
26 05 29 00-0160	EA	3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	220.05	51.88
26 05 29 00-0161		Aluminum Mounting Assemblies (26 05 29 00-0155)		
26 05 29 00-0162		Aluminum Back Plate (26 05 29 00-0161)		
26 05 29 00-0163	EA	3/16" x 2' x 2' Aluminum Back Plate.....	207.64	77.82
26 05 29 00-0164	EA	3/16" x 4' x 4' Aluminum Back Plate.....	457.33	77.82
26 05 29 00-0165		Supports (26 05 29)		
26 05 29 00-0166		One Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0167	EA	1/2", One Hole Steel Conduit Strap	3.62	
		For Work In Restricted Working Space, Add	1.00	
		For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
		For >50 To 100, Deduct	-0.17	
		For >100 To 250, Deduct	-0.35	
		For >250 To 500, Deduct	-0.69	
		For >500, Deduct	-1.03	
26 05 29 00-0168	EA	3/4", One Hole Steel Conduit Strap	3.66	
		For Work In Restricted Working Space, Add	1.00	
		For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
		For >50 To 100, Deduct	-0.17	
		For >100 To 250, Deduct	-0.35	
		For >250 To 500, Deduct	-0.69	
		For >500, Deduct	-1.03	
26 05 29 00-0169	EA	1", One Hole Steel Conduit Strap	3.83	
		For Work In Restricted Working Space, Add	1.00	
		For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
		For >50 To 100, Deduct	-0.18	
		For >100 To 250, Deduct	-0.36	
		For >250 To 500, Deduct	-0.70	
		For >500, Deduct	-1.05	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0170	EA		1-1/4", One Hole Steel Conduit Strap .....3.96		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
26 05 29 00-0171	EA		1-1/2", One Hole Steel Conduit Strap .....4.04		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.72	
			For >500, Deduct	-1.07	
26 05 29 00-0172	EA		2", One Hole Steel Conduit Strap .....4.56		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.76	
			For >500, Deduct	-1.12	
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap .....5.09		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.80	
			For >500, Deduct	-1.17	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap .....5.27		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.81	
			For >500, Deduct	-1.19	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap .....6.14		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.28	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap .....6.83		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.35	
26 05 29 00-0177			One Hole Iron Conduit Straps (26 05 29 00-0165) .....3.71		
26 05 29 00-0178	EA		1/2", One Hole Iron Conduit Strap .....3.71		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.69	
			For >500, Deduct	-1.04	
26 05 29 00-0179	EA		3/4", One Hole Iron Conduit Strap .....3.79		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.04	
26 05 29 00-0180	EA		1", One Hole Iron Conduit Strap .....3.94		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
26 05 29 00-0181	EA		1-1/4", One Hole Iron Conduit Strap .....4.30		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.74	
			For >500, Deduct	-1.09	
26 05 29 00-0182	EA		1-1/2", One Hole Iron Conduit Strap .....4.45		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.75	
			For >500, Deduct	-1.11	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0183	EA		2", One Hole Iron Conduit Strap5.37		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.20	
26 05 29 00-0184	EA		2-1/2", One Hole Iron Conduit Strap .....7.34		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-0.97	
			For >500, Deduct	-1.40	
26 05 29 00-0185	EA		3", One Hole Iron Conduit Strap .....8.98		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.56	
26 05 29 00-0186	EA		3-1/2", One Hole Iron Conduit Strap .....11.38		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.27	
			For >500, Deduct	-1.80	
26 05 29 00-0187	EA		4", One Hole Iron Conduit Strap .....21.00		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.61	
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-1.99	
			For >500, Deduct	-2.76	
26 05 29 00-0188	EA		5", One Hole Iron Conduit Strap .....26.18		
			For Work In Restricted Working Space, Add	1.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.74	
			For >100 To 250, Deduct	-1.48	
			For >250 To 500, Deduct	-2.38	
			For >500, Deduct	-3.28	
26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0185)					
26 05 29 00-0190	EA		1/2", Two Hole Steel Conduit Strap .....4.15		
			For Work In Restricted Working Space, Add	1.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.16	
26 05 29 00-0191	EA		3/4", Two Hole Steel Conduit Strap .....4.20		
			For Work In Restricted Working Space, Add	1.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.17	
26 05 29 00-0192	EA		1", Two Hole Steel Conduit Strap .....4.23		
			For Work In Restricted Working Space, Add	1.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.17	
26 05 29 00-0193	EA		1-1/4", Two Hole Steel Conduit Strap .....4.27		
			For Work In Restricted Working Space, Add	1.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.18	
26 05 29 00-0194	EA		1-1/2", Two Hole Steel Conduit Strap .....4.30		
			For Work In Restricted Working Space, Add	1.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.18	
26 05 29 00-0195	EA		2", Two Hole Steel Conduit Strap .....4.37		
			For Work In Restricted Working Space, Add	1.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.80	
			For >500, Deduct	-1.19	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap4.77		
For Work In Restricted Working Space, Add	1.12	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.23	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap .....4.85		
For Work In Restricted Working Space, Add	1.12	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.23	
26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap .....5.16		
For Work In Restricted Working Space, Add	1.12	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.85	
For >500, Deduct	-1.26	
26 05 29 00-0199 EA 4", Two Hole Steel Conduit Strap .....5.38		
For Work In Restricted Working Space, Add	1.12	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.29	
26 05 29 00-0200 EA 5", Two Hole Steel Conduit Strap .....5.66		
For Work In Restricted Working Space, Add	1.12	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.31	
26 05 29 00-0201 Clamp Back Spacers (26 05 29 00-0165) .....3.19		
26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer.....0.78		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.56	
For >500, Deduct	-0.84	
26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer.....3.39		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.58	
For >500, Deduct	-0.86	
26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer.....3.58		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.59	
For >500, Deduct	-0.88	
26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer .....4.32		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.95	
26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer .....4.91		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.01	
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer.....5.54		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.07	
26 05 29 00-0208 EA 2-1/2" Conduit, Clamp Back Spacer .....8.08		
For Work In Restricted Working Space, Add	0.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.93	
For >500, Deduct	-1.33	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer.....	11.12	
			For Work In Restricted Working Space, Add	0.78	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.63	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer	14.07	
			For Work In Restricted Working Space, Add	0.78	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.83	
			For >250 To 500, Deduct	-1.38	
			For >500, Deduct	-1.93	
26 05 29 00-0211	EA		4" Conduit, Clamp Back Spacer.....	27.91	
			For Work In Restricted Working Space, Add	0.78	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
			For >50 To 100, Deduct	-0.76	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-2.42	
			For >500, Deduct	-3.31	
26 05 29 00-0212	EA		5" Conduit, Clamp Back Spacer.....	51.28	
			For Work In Restricted Working Space, Add	0.78	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.75	
			For >50 To 100, Deduct	-1.35	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-4.17	
			For >500, Deduct	-5.65	
26 05 29 00-0213			Conduit Clips (26 05 29 00-0165)		
			Note: Push in or clip.		
26 05 29 00-0214	EA		1/2" Conduit Clip.....	3.90	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.05	
26 05 29 00-0215	EA		3/4" Conduit Clip.....	3.90	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.05	
26 05 29 00-0216	EA		1" Conduit Clip.....	3.86	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.05	
26 05 29 00-0217	EA		1-1/4" Conduit Clip.....	3.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.93	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
26 05 29 00-0218			Bolt And Nut Conduit Clips (26 05 29 00-0165)		
26 05 29 00-0219	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	4.86	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.32	
26 05 29 00-0220	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	4.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.89	
			For >500, Deduct	-1.33	
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	5.29	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.41	
26 05 29 00-0222	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	5.36	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.95	
			For >500, Deduct	-1.42	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0223	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	5.79	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.20	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.46	
26 05 29 00-0224	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	6.23	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.27	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.05	
			For >500, Deduct	-1.56	
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	6.61	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.27	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.60	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	10.73	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.40	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.45	
			For >500, Deduct	-2.11	
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165)		
			Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod	2.85	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.72	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.53	
			For >500, Deduct	-0.78	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod	2.89	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.72	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.53	
			For >500, Deduct	-0.79	
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod	2.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.72	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.27	
			For >250 To 500, Deduct	-0.53	
			For >500, Deduct	-0.80	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod	3.18	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.72	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.28	
			For >250 To 500, Deduct	-0.55	
			For >500, Deduct	-0.82	
26 05 29 00-0232			Beam Flange Clamps (26 05 29 00-0165)		
			Note: For threaded rod, nut not required.		
26 05 29 00-0233	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	3.80	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.90	
26 05 29 00-0234	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	3.74	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.89	
26 05 29 00-0235	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	4.07	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.63	
			For >500, Deduct	-0.93	
26 05 29 00-0236			T-Bar Support Clips (26 05 29 00-0165)		
26 05 29 00-0237	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	6.65	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.15	
			For >500, Deduct	-1.70	
26 05 29 00-0238	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	6.40	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.68	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0239	EA	15/16	Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	2.19	
			For >50 To 100, Deduct	-0.09	
			For >100 To 250, Deduct	-0.17	
			For >250 To 500, Deduct	-0.33	
			For >500, Deduct	-0.48	
26 05 29 00-0240	EA	24"	Long Snap On T-Bar Electrical Box Hanger (Caddy 512)	14.98	
			For >50 To 100, Deduct	-0.43	
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.38	
			For >500, Deduct	-1.91	
26 05 29 00-0241 Switch And Outlet Box Type Supports (26 05 29 00-0165)					
26 05 29 00-0242	EA	1/4"	To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	4.28	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.58	
			For >500, Deduct	-0.84	
26 05 29 00-0243	EA	1/2"	Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	3.73	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.54	
			For >500, Deduct	-0.79	
26 05 29 00-0244	EA	Flush,	Riveted Switch And Outlet Box Support (Caddy MFO)	4.20	
			For >50 To 100, Deduct	-0.16	
			For >100 To 250, Deduct	-0.31	
			For >250 To 500, Deduct	-0.57	
			For >500, Deduct	-0.83	
26 05 29 00-0245	EA	Snap On,	Switch And Outlet Box Support (Caddy MSF)	2.96	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.48	
			For >500, Deduct	-0.71	
26 05 29 00-0246	EA	1/4-20	Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	3.06	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.49	
			For >500, Deduct	-0.72	
26 05 29 00-0247 Lighting Fixture Hanger (26 05 29 00-0165)					
			Note: For existing or owner furnished fixtures.		
26 05 29 00-0248	EA	Lay-In/Troffer,	Straight Lip Type Fixture Support Clip (Caddy 515)	4.68	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.87	
			For >500, Deduct	-1.30	
26 05 29 00-0249	PR	Support Bars For	Recessed "High Hat" Light Fixtures (Caddy 517)	12.74	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.10	
26 05 29 00-0250	PR	Support Bars For	Recessed "Lightolier" Light Fixtures (Caddy 520)	16.97	
			For >50 To 100, Deduct	-0.53	
			For >100 To 250, Deduct	-1.06	
			For >250 To 500, Deduct	-1.79	
			For >500, Deduct	-2.53	
26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel (26 05 29 00-0165)					
26 05 29 00-0252	EA	1/2"	Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.06	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.69	
			For >500, Deduct	-1.03	
			For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0253	EA	3/4"	Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.08	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.03	
			For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0254	EA	1"	Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	4.15	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.04	
			For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0255	EA	1-1/4"	Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.28	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.36	
			For Work In Restricted Working Space, Add	1.25	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0256	EA	1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.67	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.49	
		For >250 To 500, Deduct	-0.94	
		For >500, Deduct	-1.40	
		For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0257	EA	2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.71	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.49	
		For >250 To 500, Deduct	-0.95	
		For >500, Deduct	-1.40	
		For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0258	EA	2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.02	
		For >50 To 100, Deduct	-0.31	
		For >100 To 250, Deduct	-0.61	
		For >250 To 500, Deduct	-1.18	
		For >500, Deduct	-1.74	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0259	EA	3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.36	
		For >50 To 100, Deduct	-0.31	
		For >100 To 250, Deduct	-0.63	
		For >250 To 500, Deduct	-1.20	
		For >500, Deduct	-1.77	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0260	EA	3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.69	
		For >50 To 100, Deduct	-0.32	
		For >100 To 250, Deduct	-0.64	
		For >250 To 500, Deduct	-1.23	
		For >500, Deduct	-1.81	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0261	EA	4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.80	
		For >50 To 100, Deduct	-0.32	
		For >100 To 250, Deduct	-0.65	
		For >250 To 500, Deduct	-1.23	
		For >500, Deduct	-1.82	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0262		Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel (26 05 29 00-0165)		
26 05 29 00-0263	EA	1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.31	
		For >50 To 100, Deduct	-0.19	
		For >100 To 250, Deduct	-0.37	
		For >250 To 500, Deduct	-0.71	
		For >500, Deduct	-1.06	
		For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0264	EA	3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.28	
		For >50 To 100, Deduct	-0.19	
		For >100 To 250, Deduct	-0.37	
		For >250 To 500, Deduct	-0.71	
		For >500, Deduct	-1.05	
		For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0265	EA	1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	4.24	
		For >50 To 100, Deduct	-0.18	
		For >100 To 250, Deduct	-0.37	
		For >250 To 500, Deduct	-0.71	
		For >500, Deduct	-1.05	
		For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0266	EA	1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	5.59	
		For >50 To 100, Deduct	-0.24	
		For >100 To 250, Deduct	-0.49	
		For >250 To 500, Deduct	-0.94	
		For >500, Deduct	-1.39	
		For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0267	EA	1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.25	
		For >50 To 100, Deduct	-0.26	
		For >100 To 250, Deduct	-0.52	
		For >250 To 500, Deduct	-0.99	
		For >500, Deduct	-1.46	
		For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0268	EA	2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.29	
		For >50 To 100, Deduct	-0.26	
		For >100 To 250, Deduct	-0.52	
		For >250 To 500, Deduct	-0.99	
		For >500, Deduct	-1.46	
		For Work In Restricted Working Space, Add	1.25	
26 05 29 00-0269		"J" Type Conduit Hangers (26 05 29 00-0165)		
26 05 29 00-0270	EA	1/2", "J" Type Conduit Hanger (Unistrut J1205)	16.15	
		For >50 To 100, Deduct	-0.59	
		For >100 To 250, Deduct	-1.17	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-3.07	
		For Work In Restricted Working Space, Add	2.18	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0271	EA	3/4"	"J" Type Conduit Hanger (Unistrut J1207).....	16.30	
			For >50 To 100, Deduct	-0.59	
			For >100 To 250, Deduct	-1.18	
			For >250 To 500, Deduct	-2.13	
			For >500, Deduct	-3.08	
			For Work In Restricted Working Space, Add	2.18	
26 05 29 00-0272	EA	1"	"J" Type Conduit Hanger (Unistrut J1210).....	17.49	
			For >50 To 100, Deduct	-0.64	
			For >100 To 250, Deduct	-1.29	
			For >250 To 500, Deduct	-2.35	
			For >500, Deduct	-3.41	
			For Work In Restricted Working Space, Add	2.49	
26 05 29 00-0273	EA	1-1/4"	"J" Type Conduit Hanger (Unistrut J1212).....	17.65	
			For >50 To 100, Deduct	-0.65	
			For >100 To 250, Deduct	-1.30	
			For >250 To 500, Deduct	-2.36	
			For >500, Deduct	-3.43	
			For Work In Restricted Working Space, Add	2.49	
26 05 29 00-0274	EA	1-1/2"	"J" Type Conduit Hanger (Unistrut J1215).....	18.80	
			For >50 To 100, Deduct	-0.70	
			For >100 To 250, Deduct	-1.41	
			For >250 To 500, Deduct	-2.58	
			For >500, Deduct	-3.75	
			For Work In Restricted Working Space, Add	2.80	
26 05 29 00-0275	EA	2"	"J" Type Conduit Hanger (Unistrut J1220).....	19.44	
			For >50 To 100, Deduct	-0.72	
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.81	
			For Work In Restricted Working Space, Add	2.80	
26 05 29 00-0276	EA	2-1/2"	"J" Type Conduit Hanger (Unistrut J1225).....	29.50	
			For >50 To 100, Deduct	-1.00	
			For >100 To 250, Deduct	-1.99	
			For >250 To 500, Deduct	-3.51	
			For >500, Deduct	-5.03	
			For Work In Restricted Working Space, Add	3.11	
26 05 29 00-0277	EA	3"	"J" Type Conduit Hanger (Unistrut J1230).....	31.48	
			For >50 To 100, Deduct	-1.07	
			For >100 To 250, Deduct	-2.14	
			For >250 To 500, Deduct	-3.79	
			For >500, Deduct	-5.43	
			For Work In Restricted Working Space, Add	3.42	
26 05 29 00-0278	EA	3-1/2"	"J" Type Conduit Hanger (Unistrut J1235).....	33.95	
			For >50 To 100, Deduct	-1.16	
			For >100 To 250, Deduct	-2.32	
			For >250 To 500, Deduct	-4.10	
			For >500, Deduct	-5.89	
			For Work In Restricted Working Space, Add	3.74	
26 05 29 00-0279	EA	4"	"J" Type Conduit Hanger (Unistrut J1240).....	43.73	
			For >50 To 100, Deduct	-1.40	
			For >100 To 250, Deduct	-2.81	
			For >250 To 500, Deduct	-4.84	
			For >500, Deduct	-6.86	
			For Work In Restricted Working Space, Add	3.74	
26 05 29 00-0280	EA	5"	"J" Type Conduit Hanger (Unistrut J1250).....	47.98	
			For >50 To 100, Deduct	-1.54	
			For >100 To 250, Deduct	-3.07	
			For >250 To 500, Deduct	-5.28	
			For >500, Deduct	-7.49	
			For Work In Restricted Working Space, Add	4.04	
26 05 29 00-0281	EA	6"	"J" Type Conduit Hanger (Unistrut J1260).....	66.47	
			For >50 To 100, Deduct	-2.05	
			For >100 To 250, Deduct	-4.10	
			For >250 To 500, Deduct	-6.93	
			For >500, Deduct	-9.76	
			For Work In Restricted Working Space, Add	4.67	
26 05 29 00-0282	Between Studs Box Brackets (26 05 29 00-0165)				
26 05 29 00-0283	EA	16"	Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	6.00	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.84	
			For >500, Deduct	-1.22	
			For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0284	EA	24"	Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	7.00	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.32	
			For Work In Restricted Working Space, Add	0.94	
26 05 29 00-0285	Hangers And Brackets (26 05 29 00-0165)				

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	2.45	
For >50 To 100, Deduct	-0.11	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.66	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB)	2.39	
For >50 To 100, Deduct	-0.11	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.65	
26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO)	2.39	
For >50 To 100, Deduct	-0.11	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.65	
26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB)	2.99	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.71	
26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB)	3.00	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.71	
26 05 29 00-0291 EA Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB)	2.93	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.71	
26 05 29 00-0292 EA Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO)	2.99	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.71	
26 05 29 00-0293 EA Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO)	3.00	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.48	
For >500, Deduct	-0.71	
26 05 29 00-0294 Clips And Accessories (26 05 29 00-0165)		
26 05 29 00-0295 EA 1/2" Diameter Center, Bridle Ring (Caddy 2BR)	1.62	
For >50 To 100, Deduct	-0.07	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.28	
For >500, Deduct	-0.42	
26 05 29 00-0296 EA 3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	1.64	
For >50 To 100, Deduct	-0.07	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.28	
For >500, Deduct	-0.42	
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	1.73	
For >50 To 100, Deduct	-0.08	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.29	
For >500, Deduct	-0.43	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32)	1.92	
For >50 To 100, Deduct	-0.08	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.31	
For >500, Deduct	-0.45	
26 05 29 00-0299 Wire Ties (26 05 29 00-0165)		
Note: Per hundred (C).		
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties	13.68	
For UV Black, Add	0.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties	13.79	
For UV Black, Add	0.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties	13.87	
For UV Black, Add	0.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	13.90	
For UV Black, Add	0.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	14.41	
For UV Black, Add	0.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.39	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties	17.34	
For UV Black, Add	0.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.54	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0306	C		4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	16.75	
			For UV Black, Add	0.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 29 00-0307	C		6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	17.27	
			For UV Black, Add	0.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.39	
26 05 29 00-0308	C		8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	17.82	
			For UV Black, Add	0.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.54	
26 05 29 00-0309	C		10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	26.58	
			For UV Black, Add	2.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.82	
26 05 29 00-0310	C		11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	27.83	
			For UV Black, Add	2.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.82	
26 05 29 00-0311	C		7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	18.69	
			For UV Black, Add	1.03	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.54	
26 05 29 00-0312	C		8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	17.58	
			For UV Black, Add	0.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.54	
26 05 29 00-0313	C		11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	26.93	
			For UV Black, Add	2.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.82	
26 05 29 00-0314	C		14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	30.98	
			For UV Black, Add	2.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.06	
26 05 29 00-0315	C		8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	30.54	
			For UV Black, Add	2.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.54	
26 05 29 00-0316	C		11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	33.46	
			For UV Black, Add	3.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.82	
26 05 29 00-0317	C		15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	40.80	
			For UV Black, Add	4.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.06	
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	59.11	
			For UV Black, Add	6.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.33	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	57.21	
			For UV Black, Add	6.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.33	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	70.07	
			For UV Black, Add	8.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.53	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	81.36	
			For UV Black, Add	9.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.75	
26 05 29 00-0322	C		46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	112.28	
			For UV Black, Add	14.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 29 00-0323	C		3/4" x 3/4" Self Adhesive Tie Mounts.....	33.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 29 00-0324	C		1.1" x 1.1" Tie Mounts With Screw.....	67.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.48	
26 05 29 00-0325	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.16	
26 05 29 00-0326	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0327	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie.....	1.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0328	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie.....	2.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.13	
26 05 29 00-0329	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll.....	54.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.98	
26 05 29 00-0330			Fastening Devices For Wireway And Conduit (26 05 29)		
			Note: Bolts include drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports.		
26 05 29 00-0331			Toggle Bolts (26 05 29 00-0330)		
			Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	7.89	
			For >50 To 100, Deduct	-0.77	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-2.68	
			For >500, Deduct	-3.83	
26 05 29 00-0333	EA		1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.10	
			For >50 To 100, Deduct	-0.79	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-2.75	
			For >500, Deduct	-3.92	

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	8.46	
For >50 To 100, Deduct	-0.81	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.83	
For >500, Deduct	-4.03	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.67	
For >50 To 100, Deduct	-0.83	
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-2.89	
For >500, Deduct	-4.13	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	8.87	
For >50 To 100, Deduct	-0.85	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.96	
For >500, Deduct	-4.23	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	9.70	
For >50 To 100, Deduct	-0.88	
For >100 To 250, Deduct	-1.77	
For >250 To 500, Deduct	-3.08	
For >500, Deduct	-4.39	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.04	
For >50 To 100, Deduct	-0.91	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-3.15	
For >500, Deduct	-4.50	
26 05 29 00-0339 Machine Screws (26 05 29 00-0330)		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.35	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.16	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.38	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.16	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.98	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.02	
For >500, Deduct	-1.45	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.07	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.03	
For >500, Deduct	-1.46	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.75	
For >50 To 100, Deduct	-0.35	
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.23	
For >500, Deduct	-1.76	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0330)		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	3.53	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.06	
For >500, Deduct	-1.51	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	3.50	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.61	
For >250 To 500, Deduct	-1.06	
For >500, Deduct	-1.51	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.73	
For >50 To 100, Deduct	-0.38	
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.31	
For >500, Deduct	-1.86	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.88	
For >50 To 100, Deduct	-0.45	
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.55	
For >500, Deduct	-2.20	

26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts (26 05 29 00-0330)

Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0351	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.68	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.19	
26 05 29 00-0352	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	2.71	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.84	
			For >500, Deduct	-1.19	
26 05 29 00-0353	EA		3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.16	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.34	
26 05 29 00-0354 Hollow Wall Screw Anchors (26 05 29 00-0330)					
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.59	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.50	
			For >500, Deduct	-0.71	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.62	
			For >50 To 100, Deduct	-0.14	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.50	
			For >500, Deduct	-0.71	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	1.68	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.51	
			For >500, Deduct	-0.72	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.08	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.85	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.15	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.60	
			For >500, Deduct	-0.86	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.17	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.86	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.19	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.86	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.29	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.61	
			For >500, Deduct	-0.87	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.33	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.62	
			For >500, Deduct	-0.88	
26 05 29 00-0364 Lead Screw Anchors (26 05 29 00-0330)					
Note: Includes screw.					
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	3.82	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.26	
			For >500, Deduct	-1.80	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	4.49	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-2.09	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	5.96	
			For >50 To 100, Deduct	-0.54	
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.88	
			For >500, Deduct	-2.68	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0368		Acoustical T-Bar Clips (26 05 29 00-0330) Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA	1/2" Conduit, Push-In Acoustical T-Bar Clip.....	5.89	
		For >50 To 100, Deduct	-0.48	
		For >100 To 250, Deduct	-0.96	
		For >250 To 500, Deduct	-1.66	
		For >500, Deduct	-2.36	
26 05 29 00-0370	EA	3/4" Conduit, Push-In Acoustical T-Bar Clip.....	6.18	
		For >50 To 100, Deduct	-0.50	
		For >100 To 250, Deduct	-1.01	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.48	
26 05 29 00-0371	EA	1" Conduit, Push-In Acoustical T-Bar Clip.....	6.68	
		For >50 To 100, Deduct	-0.54	
		For >100 To 250, Deduct	-1.07	
		For >250 To 500, Deduct	-1.85	
		For >500, Deduct	-2.63	
26 05 29 00-0372		Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0373		Threaded Rod And Rod Accessories (26 05 29 00-0372)		
26 05 29 00-0374		Carbon Steel Threaded Rod (26 05 29 00-0373) Note: Includes plain finish.		
26 05 29 00-0375	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.58	0.65
		For Galvanized, Add	0.52	
		For Zinc Coated, Add	0.37	
26 05 29 00-0376	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.42	0.69
		For Galvanized, Add	0.82	
		For Zinc Coated, Add	0.58	
26 05 29 00-0377	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.60	0.71
		For Galvanized, Add	1.27	
		For Zinc Coated, Add	0.90	
26 05 29 00-0378	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.23	0.74
		For Galvanized, Add	2.30	
		For Zinc Coated, Add	1.64	
26 05 29 00-0379	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.85	0.76
		For Galvanized, Add	2.53	
		For Zinc Coated, Add	1.80	
26 05 29 00-0380	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.62	0.86
		For Galvanized, Add	3.55	
		For Zinc Coated, Add	2.53	
26 05 29 00-0381	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	13.13	0.96
		For Galvanized, Add	4.48	
		For Zinc Coated, Add	3.19	
26 05 29 00-0382		Threaded Rod Couplings (26 05 29 00-0373)		
26 05 29 00-0383	EA	3/8" Diameter, Threaded Rod Coupling Nut.....	7.80	
26 05 29 00-0384	EA	1/2" Diameter, Threaded Rod Coupling Nut.....	8.80	
26 05 29 00-0385	EA	5/8" Diameter, Threaded Rod Coupling Nut.....	10.63	
26 05 29 00-0386	EA	3/4" Diameter, Threaded Rod Coupling Nut.....	12.54	
26 05 29 00-0387	EA	7/8" Diameter, Threaded Rod Coupling Nut.....	17.04	
26 05 29 00-0388	EA	1" Diameter, Threaded Rod Coupling Nut.....	20.16	
26 05 29 00-0389	EA	1-1/8" Diameter, Threaded Rod Coupling Nut	34.90	
26 05 29 00-0390		Flat Washers (26 05 29 00-0373)		
26 05 29 00-0391	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.67	0.26
		For Galvanized, Add	0.02	
26 05 29 00-0392	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.82	0.26
		For Galvanized, Add	0.04	
26 05 29 00-0393	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.01	0.26
		For Galvanized, Add	0.08	
26 05 29 00-0394	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.19	0.52
		For Galvanized, Add	0.12	
26 05 29 00-0395	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.32	0.52
		For Galvanized, Add	0.14	
26 05 29 00-0396	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.54	0.52
		For Galvanized, Add	0.17	
26 05 29 00-0397	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.73	0.52
		For Galvanized, Add	0.19	
26 05 29 00-0398		Malleable Iron Eye Sockets (26 05 29 00-0373) Note: Type 16.		
26 05 29 00-0399	EA	3/8" Rod Size, Malleable Iron Eye Socket.....	8.47	
26 05 29 00-0400	EA	1/2" Rod Size, Malleable Iron Eye Socket.....	10.07	
26 05 29 00-0401	EA	5/8" Rod Size, Malleable Iron Eye Socket.....	17.06	
26 05 29 00-0402	EA	3/4" Rod Size, Malleable Iron Eye Socket.....	24.08	
26 05 29 00-0403	EA	7/8" Rod Size, Malleable Iron Eye Socket.....	25.71	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0404 Hex Nuts (26 05 29 00-0373)		
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	0.65 0.02	0.26
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	0.79 0.04	0.26
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.01 0.08	0.26
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.16 0.11	0.52
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.58 0.21	0.52
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.98 0.28	0.52
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	3.08 0.53	0.52
26 05 29 00-0412 Forged Steel Turnbuckles (26 05 29 00-0373) Note: Type 13.		
26 05 29 00-0413 EA 3/8" Thread Diameter, Forged Steel Turnbuckle Body	21.18	
26 05 29 00-0414 EA 1/2" Thread Diameter, Forged Steel Turnbuckle Body	25.89	
26 05 29 00-0415 EA 5/8" Thread Diameter, Forged Steel Turnbuckle Body	34.11	
26 05 29 00-0416 EA 3/4" Thread Diameter, Forged Steel Turnbuckle Body	41.94	
26 05 29 00-0417 EA 7/8" Thread Diameter, Forged Steel Turnbuckle Body	98.95	
26 05 29 00-0418 EA 1" Thread Diameter, Forged Steel Turnbuckle Body	67.91	
26 05 29 00-0419 EA 1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	133.05	
26 05 29 00-0420 Attachments (26 05 29 00-0372)		
26 05 29 00-0421 Welded Beam Attachments (26 05 29 00-0420) Note: Type 22.		
26 05 29 00-0422 EA 3/8" Rod Size, Welded Beam Attachment	39.27	10.38
26 05 29 00-0423 EA 1/2" Rod Size, Welded Beam Attachment	41.81	10.90
26 05 29 00-0424 EA 5/8" Rod Size, Welded Beam Attachment	44.47	11.52
26 05 29 00-0425 EA 3/4" Rod Size, Welded Beam Attachment	55.43	12.24
26 05 29 00-0426 EA 7/8" Rod Size, Welded Beam Attachment	65.63	12.97
26 05 29 00-0427 EA 1" Rod Size, Welded Beam Attachment	90.23	14.84
26 05 29 00-0428 EA 1-1/8" Rod Size, Welded Beam Attachment	124.95	15.57
26 05 29 00-0429 C-Clamp Style Beam Clamps (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430 EA 3/8" Rod Size, C-Clamp Style Beam Clamp	15.26	7.79
26 05 29 00-0431 EA 1/2" Rod Size, C-Clamp Style Beam Clamp	17.77	8.31
26 05 29 00-0432 EA 5/8" Rod Size, C-Clamp Style Beam Clamp	19.95	8.91
26 05 29 00-0433 EA 3/4" Rod Size, C-Clamp Style Beam Clamp	24.83	9.59
26 05 29 00-0434 EA 7/8" Rod Size, C-Clamp Style Beam Clamp	34.50	10.39
26 05 29 00-0435 Bottom Mount I-Beam Clamps (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	37.20	10.39
26 05 29 00-0437 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	52.97	11.34
26 05 29 00-0438 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	74.05	12.47
26 05 29 00-0439 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	88.19	13.85
26 05 29 00-0440 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	205.71	15.59
26 05 29 00-0441 Steel U-Bolts (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442 EA 1/2" Pipe Size, Zinc Plated Steel, U-Bolt	12.38	6.23
26 05 29 00-0443 EA 3/4" Pipe Size, Zinc Plated Steel, U-Bolt	13.34	6.56
26 05 29 00-0444 EA 1" Pipe Size, Zinc Plated Steel, U-Bolt	14.31	6.92
26 05 29 00-0445 EA 1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	16.04	7.33
26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	16.65	7.79
26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt	17.80	8.32
26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	24.32	8.91
26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt	26.70	9.59
26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt	31.74	10.39
26 05 29 00-0451 Stainless Steel Threaded Rod (26 05 29 00-0372)		
26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	2.32 0.52	0.52
26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	3.33 0.89	0.57
26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	4.22 1.19	0.65
26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For 316 Stainless Steel, Add</i>	5.70 1.77	0.67

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0456	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.75	0.69	
		For 316 Stainless Steel, Add	2.17		
26 05 29 00-0457	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	9.86	0.70	
		For 316 Stainless Steel, Add	3.43		
26 05 29 00-0458	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	13.60	0.71	
		For 316 Stainless Steel, Add	4.93		
26 05 29 00-0459	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	18.53	0.74	
		For 316 Stainless Steel, Add	6.91		
26 05 29 00-0460	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	23.76	0.86	
		For 316 Stainless Steel, Add	8.92		
26 05 29 00-0461	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	49.71	1.04	
		For 316 Stainless Steel, Add	19.25		
26 05 29 00-0462		Polyvinyl Chloride (PVC) Coated Supports (26 05 29)			
		Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.			
26 05 29 00-0463		Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0462)			
26 05 29 00-0464		Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0465	EA	1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	48.91	20.75	
26 05 29 00-0466	EA	3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	53.20	22.62	
26 05 29 00-0467	EA	1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	57.16	24.90	
26 05 29 00-0468	EA	1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	67.39	27.70	
26 05 29 00-0469	EA	1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	77.42	31.13	
26 05 29 00-0470	EA	2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	91.02	34.24	
26 05 29 00-0471	EA	2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	99.49	37.36	
26 05 29 00-0472	EA	3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	109.21	40.46	
26 05 29 00-0473	EA	3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	115.78	43.58	
26 05 29 00-0474	EA	4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	124.92	46.69	
26 05 29 00-0475		Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0476	EA	1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	51.67	20.75	
26 05 29 00-0477	EA	3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	55.08	22.62	
26 05 29 00-0478	EA	1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	62.77	24.90	
26 05 29 00-0479	EA	1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	69.39	27.70	
26 05 29 00-0480	EA	1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	78.19	31.13	
26 05 29 00-0481	EA	2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	89.69	34.24	
26 05 29 00-0482	EA	2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	101.98	37.36	
26 05 29 00-0483	EA	3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	112.52	40.46	
26 05 29 00-0484	EA	3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	119.95	43.58	
26 05 29 00-0485	EA	4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	125.48	46.69	
26 05 29 00-0486		Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0487	EA	1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	49.31	20.55	
26 05 29 00-0488	EA	3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	53.20	22.41	
26 05 29 00-0489	EA	1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	59.98	24.90	
26 05 29 00-0490	EA	1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	69.39	27.39	
26 05 29 00-0491	EA	1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	87.99	31.13	
26 05 29 00-0492	EA	2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	96.53	34.24	
26 05 29 00-0493		Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)			
26 05 29 00-0494		One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)			
26 05 29 00-0495	EA	1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	4.98	0.62	
26 05 29 00-0496	EA	3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	5.38	0.62	
26 05 29 00-0497	EA	1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	7.74	0.62	
26 05 29 00-0498	EA	1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	9.34	0.62	
26 05 29 00-0499	EA	1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	12.19	0.62	
26 05 29 00-0500	EA	2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	18.13	0.62	
26 05 29 00-0501	EA	2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	24.04	0.62	
26 05 29 00-0502	EA	3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	32.09	0.62	
26 05 29 00-0503	EA	3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	56.52	0.62	
26 05 29 00-0504	EA	4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	60.05	0.62	
26 05 29 00-0505		Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)			
26 05 29 00-0506	EA	1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	9.81	1.24	
26 05 29 00-0507	EA	3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	9.85	1.24	
26 05 29 00-0508	EA	1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	10.09	1.24	
26 05 29 00-0509	EA	1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	12.53	1.24	
26 05 29 00-0510	EA	1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	12.86	1.24	
26 05 29 00-0511	EA	2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.65	1.24	
26 05 29 00-0512	EA	2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.40	1.24	
26 05 29 00-0513	EA	3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	17.11	1.24	
26 05 29 00-0514	EA	3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	18.23	1.24	
26 05 29 00-0515	EA	4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	19.72	1.24	



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0516	Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517	Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518	EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	8.96	1.24
26 05 29 00-0519	EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	10.32	1.24
26 05 29 00-0520	EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	12.80	1.24
26 05 29 00-0521	EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	14.87	1.24
26 05 29 00-0522	EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	19.68	1.24
26 05 29 00-0523	EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	32.01	1.24
26 05 29 00-0524	EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	47.38	1.24
26 05 29 00-0525	EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	64.46	1.24
26 05 29 00-0526	EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	112.33	1.24
26 05 29 00-0527	EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	112.33	1.24
26 05 29 00-0528	Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529	Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530	LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	6.13	0.83
26 05 29 00-0531	LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	7.52	0.93
26 05 29 00-0532	Attachments (26 05 29 00-0462)		
26 05 29 00-0533	Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534	EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	14.49	6.23
26 05 29 00-0535	EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	15.03	6.55
26 05 29 00-0536	EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	15.85	6.96
26 05 29 00-0537	EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	16.85	7.37
26 05 29 00-0538	EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	17.93	7.79
26 05 29 00-0539	EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	19.90	8.32
26 05 29 00-0540	EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	27.07	8.94
26 05 29 00-0541	EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	28.52	9.56
26 05 29 00-0542	EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	30.49	10.39
26 05 29 00-0543	EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	47.00	11.85
26 05 29 00-0544	EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	57.74	13.71
26 05 29 00-0545	Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546	EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	49.72	20.55
26 05 29 00-0547	EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	56.31	20.55
26 05 29 00-0548	EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	59.02	20.55
26 05 29 00-0549	EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	64.64	21.79
26 05 29 00-0550	EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	75.37	24.90
26 05 29 00-0551	Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
	Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552	EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	17.41	6.85
26 05 29 00-0553	EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	18.46	7.47
26 05 29 00-0554	EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap	20.08	8.09
26 05 29 00-0555	EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	22.75	9.34
26 05 29 00-0556	EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	25.97	10.58
26 05 29 00-0557	EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap	28.55	11.21
26 05 29 00-0558	EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	31.60	12.45
26 05 29 00-0559	EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap	36.96	13.69
26 05 29 00-0560	EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	40.03	14.32
26 05 29 00-0561	EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap	42.36	15.57
26 05 29 00-0562	EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap	45.71	17.43
26 05 29 00-0563	Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564	LF Polyvinyl Chloride (PVC) Coated Channel, A12	15.79	3.12
26 05 29 00-0565	LF Polyvinyl Chloride (PVC) Coated Channel, A12A	27.30	4.36
26 05 29 00-0566	LF Polyvinyl Chloride (PVC) Coated Channel, A12P	16.74	3.12
26 05 29 00-0567	LF Polyvinyl Chloride (PVC) Coated Channel, C14	12.87	3.12
26 05 29 00-0568	LF Polyvinyl Chloride (PVC) Coated Channel, C14P	13.46	3.12
26 05 29 00-0569	Polymer Concrete Pads (26 05 29)		
	Note: Excludes excavation and backfill.		
26 05 29 00-0570	Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571	EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	746.98	93.11
26 05 29 00-0572	EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	770.15	93.11
26 05 29 00-0573	EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	983.07	93.11
26 05 29 00-0574	EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,018.37	93.11
26 05 29 00-0575	EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	950.20	93.11
26 05 29 00-0576	EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,116.92	93.11
26 05 29 00-0577	EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,244.76	93.11
26 05 29 00-0578	EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,207.71	116.39

26 Electrical**26 05 Common Work Results For Electrical****26 05 29 Hangers And Supports For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0579 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	1,805.00	116.39
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	2,405.25	116.39
26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	370.35	54.11
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	433.65	54.11
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	554.63	69.84
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	578.16	69.84
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	817.63	69.84
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	850.92	69.84
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	912.94	69.84
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	912.94	69.84
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,692.08	69.84
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,914.39	69.84
26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0593 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	236.29	54.11
26 05 29 00-0594 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	252.57	54.11
26 05 29 00-0595 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	267.39	54.11
26 05 29 00-0596 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	316.63	54.11
26 05 29 00-0597 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	294.65	54.11
26 05 29 00-0598 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	305.01	54.11
26 05 29 00-0599 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	331.85	54.11
26 05 29 00-0600 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	347.50	54.11
26 05 29 00-0601 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	399.80	54.11
26 05 29 00-0602 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	485.93	54.11
26 05 29 00-0603 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	702.26	69.84
26 05 29 00-0604 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	733.74	69.84
26 05 29 00-0605 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	743.68	69.84
26 05 29 00-0606 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	809.86	69.84
26 05 29 00-0607 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,695.06	69.84
26 05 29 00-0608 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,991.56	69.84
26 05 33 Raceway And Boxes For Electrical Systems (26 05)		
26 05 33 13 Conduit For Electrical Systems (26 05 33)		
26 05 33 13-0001 Conduit Assemblies (26 05 33 13)		
Note: With fittings and wire.		
26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)		
Note: Includes conduit, set screw connectors, set screw couplings, straps, and wire as indicated. Per CLF.		
26 05 33 13-0003 CLF 1/2" Electrical Metallic Tubing (EMT) With 3 #12 THHN/THWN Assembly.....	660.63	312.17
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	187.30	
26 05 33 13-0004 CLF 1/2" Electrical Metallic Tubing (EMT) With 4 #12 THHN/THWN Assembly.....	722.95	341.11
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	204.65	
26 05 33 13-0005 CLF 1/2" Electrical Metallic Tubing (EMT) With 3 #10 THHN/THWN Assembly.....	697.03	326.50
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	195.88	
26 05 33 13-0006 CLF 1/2" Electrical Metallic Tubing (EMT) With 4 #10 THHN/THWN Assembly.....	772.31	360.55
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	216.33	
26 05 33 13-0007 CLF 3/4" Electrical Metallic Tubing (EMT) With 3 #12 THHN/THWN Assembly.....	757.95	355.90
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	213.54	
26 05 33 13-0008 CLF 3/4" Electrical Metallic Tubing (EMT) With 4 #12 THHN/THWN Assembly.....	821.08	385.03
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	231.03	
26 05 33 13-0009 CLF 3/4" Electrical Metallic Tubing (EMT) With 5 #12 THHN/THWN Assembly.....	883.27	413.86
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	248.33	
26 05 33 13-0010 CLF 3/4" Electrical Metallic Tubing (EMT) With 6 #12 THHN/THWN Assembly.....	945.84	442.89
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	265.75	
26 05 33 13-0011 CLF 3/4" Electrical Metallic Tubing (EMT) With 3 #10 THHN/THWN Assembly.....	794.71	370.23
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	222.13	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) With 4 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	869.50	404.09
		<i>For Work In Restricted Working Space, Add</i>	242.43	
26 05 33 13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) With 5 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	943.82	437.67
		<i>For Work In Restricted Working Space, Add</i>	262.60	
26 05 33 13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) With 6 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	1,018.11	471.25
		<i>For Work In Restricted Working Space, Add</i>	282.75	
26 05 33 13-0015	CLF	1" Electrical Metallic Tubing (EMT) With 3 #12 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	925.08	429.13
		<i>For Work In Restricted Working Space, Add</i>	257.50	
26 05 33 13-0016	CLF	1" Electrical Metallic Tubing (EMT) With 4 #12 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	986.45	457.59
		<i>For Work In Restricted Working Space, Add</i>	274.56	
26 05 33 13-0017	CLF	1" Electrical Metallic Tubing (EMT) With 5 #12 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	1,044.91	486.62
		<i>For Work In Restricted Working Space, Add</i>	292.10	
26 05 33 13-0018	CLF	1" Electrical Metallic Tubing (EMT) With 6 #12 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	1,110.66	515.65
		<i>For Work In Restricted Working Space, Add</i>	309.11	
26 05 33 13-0019	CLF	1" Electrical Metallic Tubing (EMT) With 3 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	960.40	442.89
		<i>For Work In Restricted Working Space, Add</i>	265.75	
26 05 33 13-0020	CLF	1" Electrical Metallic Tubing (EMT) With 4 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	1,034.34	476.38
		<i>For Work In Restricted Working Space, Add</i>	285.80	
26 05 33 13-0021	CLF	1" Electrical Metallic Tubing (EMT) With 5 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	1,109.65	510.52
		<i>For Work In Restricted Working Space, Add</i>	306.26	
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) With 6 #10 THHN/THWN Assembly..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	1,185.40	543.82
		<i>For Work In Restricted Working Space, Add</i>	326.63	
26 05 33 13-0023		Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, terminations, straps, and wire as indicated. Per CLF.		
26 05 33 13-0024	CLF	1/2" Rigid Galvanized Steel (RGS) With 3 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	768.45	348.60
		<i>For Work In Restricted Working Space, Add</i>	209.16	
26 05 33 13-0025	CLF	1/2" Rigid Galvanized Steel (RGS) With 4 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	831.35	377.82
		<i>For Work In Restricted Working Space, Add</i>	226.68	
26 05 33 13-0026	CLF	1/2" Rigid Galvanized Steel (RGS) With 3 #10 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	804.88	362.92
		<i>For Work In Restricted Working Space, Add</i>	217.75	
26 05 33 13-0027	CLF	1/2" Rigid Galvanized Steel (RGS) With 4 #10 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	878.33	396.12
		<i>For Work In Restricted Working Space, Add</i>	237.65	
26 05 33 13-0028	CLF	3/4" Rigid Galvanized Steel (RGS) With 3 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	874.07	394.70
		<i>For Work In Restricted Working Space, Add</i>	236.81	
26 05 33 13-0029	CLF	3/4" Rigid Galvanized Steel (RGS) With 4 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	1,089.31	500.09
		<i>For Work In Restricted Working Space, Add</i>	300.02	
26 05 33 13-0030	CLF	3/4" Rigid Galvanized Steel (RGS) With 5 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	997.70	452.00
		<i>For Work In Restricted Working Space, Add</i>	271.19	
26 05 33 13-0031	CLF	3/4" Rigid Galvanized Steel (RGS) With 3 #10 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	909.60	408.84
		<i>For Work In Restricted Working Space, Add</i>	245.12	
26 05 33 13-0032	CLF	3/4" Rigid Galvanized Steel (RGS) With 4 #10 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	983.71	442.51
		<i>For Work In Restricted Working Space, Add</i>	265.22	
26 05 33 13-0033	CLF	3/4" Rigid Galvanized Steel (RGS) With 5 #10 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	1,059.42	476.09
		<i>For Work In Restricted Working Space, Add</i>	285.80	
26 05 33 13-0034	CLF	1" Rigid Galvanized Steel (RGS) With 4 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	1,108.85	494.20
		<i>For Work In Restricted Working Space, Add</i>	296.67	
26 05 33 13-0035	CLF	1" Rigid Galvanized Steel (RGS) With 5 #12 THHN/THWN Wire Assembly..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.	1,169.45	523.13
		<i>For Work In Restricted Working Space, Add</i>	313.50	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0036 CLF 1" Rigid Galvanized Steel (RGS) With 6 #12 THHN/THWN Wire Assembly.....	1,234.06	551.97
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	331.53	
26 05 33 13-0037 CLF 1" Rigid Galvanized Steel (RGS) With 4 #10 THHN/THWN Wire Assembly.....	1,155.97	513.17
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	307.68	
26 05 33 13-0038 CLF 1" Rigid Galvanized Steel (RGS) With 5 #10 THHN/THWN Wire Assembly.....	1,231.62	546.76
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	328.25	
26 05 33 13-0039 CLF 1" Rigid Galvanized Steel (RGS) With 6 #10 THHN/THWN Wire Assembly.....	1,304.78	580.43
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	348.06	
26 05 33 13-0040 Conduit (26 05 33 13)		
Note: Includes warning tape for underground conduits. Where 4-1/2" conduit is required, use tasks for 5" conduit.		
Add couplings as required at each fitting.		
26 05 33 13-0041 Conduit Installed Above Grade (26 05 33 13-0040)		
See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0042 Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0041)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0043 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling (26 05 33 13-0042)		
Note: Includes field bending for conduit up to 1".		
26 05 33 13-0044 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	6.40	2.08
For >250 To 500, Deduct	-0.06	
For >500 To 1,000, Deduct	-0.35	
For >1,000, Deduct	-0.51	
For Installation In Metal Stud Wall, Add	0.52	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
For Work In Restricted Working Space, Add	1.57	
For Installation Above 14', Add	0.78	
26 05 33 13-0045 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	7.14	2.27
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.57	
For Installation In Metal Stud Wall, Add	0.57	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.42	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.85	
For Work In Restricted Working Space, Add	1.71	
For Installation Above 14', Add	0.85	
26 05 33 13-0046 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	8.89	2.66
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.72	
For Installation In Metal Stud Wall, Add	0.66	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.66	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.00	
For Work In Restricted Working Space, Add	1.99	
For Installation Above 14', Add	1.00	
26 05 33 13-0047 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	10.58	3.04
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.60	
For >1,000, Deduct	-0.87	
For Installation In Metal Stud Wall, Add	0.76	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.90	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
For Work In Restricted Working Space, Add	2.28	
For Installation Above 14', Add	1.14	
26 05 33 13-0048 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	12.21	3.42
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.70	
For >1,000, Deduct	-1.01	
For Installation In Metal Stud Wall, Add	0.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.28	
For Work In Restricted Working Space, Add	2.56	
For Installation Above 14', Add	1.28	
26 05 33 13-0049 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	15.33	4.18
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.27	
For Installation In Metal Stud Wall, Add	1.04	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.61	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.56	
For Work In Restricted Working Space, Add	3.13	
For Installation Above 14', Add	1.56	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0050 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	22.36 -0.41 -1.32 -1.88 1.42 3.56 2.13 4.27 2.13	5.69
26 05 33 13-0051 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	29.31 -0.52 -1.72 -2.46 1.90 4.74 2.85 5.69 2.85	7.59
26 05 33 13-0052 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	36.34 -0.63 -2.13 -3.04 2.37 5.93 3.56 7.12 3.56	9.49
26 05 33 13-0053 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	43.14 -0.73 -2.52 -3.60 2.85 7.12 4.27 8.54 4.27	11.38
26 05 33 13-0054 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	65.80 -1.49 -4.03 -5.68 3.60 9.01 5.41 10.81 5.41	14.42
26 05 33 13-0055 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Installation Above 14', Add	87.35 -2.09 -5.41 -7.60 4.55 11.38 6.83 13.66 6.83	18.22
26 05 33 13-0056 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0057 EA 1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	27.45 7.07 3.53	9.39
26 05 33 13-0058 EA 3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	34.43 8.78 4.39	11.66
26 05 33 13-0059 EA 1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	43.63 10.71 5.36	14.32
26 05 33 13-0060 EA 1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	55.02 12.44 6.22	16.60
26 05 33 13-0061 EA 1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	63.75 14.28 7.14	19.07
26 05 33 13-0062 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	74.56 15.71 7.85	20.96
26 05 33 13-0063 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	105.02 19.63 9.82	26.18
26 05 33 13-0064 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	148.08 26.75 13.37	35.66
26 05 33 13-0065 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	192.69 30.17 15.08	40.22

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0066 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	237.05 39.26 19.63	52.36
26 05 33 13-0067 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	387.64 64.03 32.02	85.38
26 05 33 13-0068 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	582.72 96.18 48.09	128.24
26 05 33 13-0069 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0070 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	27.45 7.07 3.53	9.39
26 05 33 13-0071 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	34.43 8.78 4.39	11.66
26 05 33 13-0072 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	43.63 10.71 5.36	14.32
26 05 33 13-0073 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	55.02 12.44 6.22	16.60
26 05 33 13-0074 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	63.75 14.28 7.14	19.07
26 05 33 13-0075 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	74.56 15.71 7.85	20.96
26 05 33 13-0076 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	103.41 19.63 9.82	26.18
26 05 33 13-0077 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	141.82 26.75 13.37	35.66
26 05 33 13-0078 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	183.88 30.17 15.08	40.22
26 05 33 13-0079 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	225.34 39.26 19.63	52.36
26 05 33 13-0080 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	387.64 64.03 32.02	85.38
26 05 33 13-0081 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	582.72 96.18 48.09	128.24
26 05 33 13-0082 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0083 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	65.73 14.06 7.03	23.43
26 05 33 13-0084 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	75.79 16.28 8.14	27.13
26 05 33 13-0085 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	87.46 18.50 9.25	30.83
26 05 33 13-0086 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	98.21 20.35 10.17	33.91
26 05 33 13-0087 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0088 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	70.62 14.06 7.03	23.43
26 05 33 13-0089 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	82.08 16.28 8.14	27.13
26 05 33 13-0090 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	90.32 18.50 9.25	30.83
26 05 33 13-0091 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	101.42 20.35 10.17	33.91
26 05 33 13-0092 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	133.84 25.52 12.76	42.55



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0093 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	180.40 34.78 17.39	57.96
26 05 33 13-0094 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0095 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	70.85 14.06 7.03	23.43
26 05 33 13-0096 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	81.46 16.28 8.14	27.13
26 05 33 13-0097 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	93.42 18.50 9.25	30.83
26 05 33 13-0098 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	108.35 20.35 10.17	33.91
26 05 33 13-0099 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	140.29 25.52 12.76	42.55
26 05 33 13-0100 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	185.61 34.78 17.39	57.96
26 05 33 13-0101 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	229.23 39.22 19.61	65.35
26 05 33 13-0102 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	280.25 51.05 25.53	85.08
26 05 33 13-0103 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0104 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	78.65 14.06 7.03	23.43
26 05 33 13-0105 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	89.12 16.28 8.14	27.13
26 05 33 13-0106 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	99.15 18.50 9.25	30.83
26 05 33 13-0107 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	116.80 20.35 10.17	33.91
26 05 33 13-0108 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	151.82 25.52 12.76	42.55
26 05 33 13-0109 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	203.68 34.78 17.39	57.96
26 05 33 13-0110 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	246.80 39.22 19.61	65.35
26 05 33 13-0111 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	294.26 51.05 25.53	85.08
26 05 33 13-0112 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0042) See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0113 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	78.18 14.06 7.03	23.43
26 05 33 13-0114 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	94.81 16.28 8.14	27.13
26 05 33 13-0115 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	105.31 18.50 9.25	30.83
26 05 33 13-0116 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	124.85 20.35 10.17	33.91
26 05 33 13-0117 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	162.88 25.52 12.76	42.55
26 05 33 13-0118 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	217.95 34.78 17.39	57.96
26 05 33 13-0119 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	264.16 39.22 19.61	65.35

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0120	EA	4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	319.96 51.05 25.53	85.08
26 05 33 13-0121	EA	5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	469.84 83.24 41.62	138.72
26 05 33 13-0122 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0042)				
See CSI section 26 05 33 13-2183 for conduit field bending.				
26 05 33 13-0123	EA	1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	82.35 14.06 7.03	23.43
26 05 33 13-0124	EA	1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	97.61 16.28 8.14	27.13
26 05 33 13-0125	EA	1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	116.11 18.50 9.25	30.83
26 05 33 13-0126	EA	2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	131.14 20.35 10.17	33.91
26 05 33 13-0127	EA	2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	175.99 25.52 12.76	42.55
26 05 33 13-0128	EA	3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	230.15 34.78 17.39	57.96
26 05 33 13-0129	EA	3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	286.59 39.22 19.61	65.35
26 05 33 13-0130	EA	4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	332.05 51.05 25.53	85.08
26 05 33 13-0131	EA	5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	568.50 83.24 41.62	138.72
26 05 33 13-0132	EA	6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	736.56 125.04 62.52	208.40
26 05 33 13-0133 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0042)				
See CSI section 26 05 33 13-2183 for conduit field bending.				
26 05 33 13-0134	EA	1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	88.45 14.06 7.03	23.43
26 05 33 13-0135	EA	1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	105.06 16.28 8.14	27.13
26 05 33 13-0136	EA	1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	124.03 18.50 9.25	30.83
26 05 33 13-0137	EA	2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	139.42 20.35 10.17	33.91
26 05 33 13-0138	EA	2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	186.02 25.52 12.76	42.55
26 05 33 13-0139	EA	3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	248.03 34.78 17.39	57.96
26 05 33 13-0140	EA	3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	304.52 39.22 19.61	65.35
26 05 33 13-0141	EA	4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	383.65 51.05 25.53	85.08
26 05 33 13-0142	EA	5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	639.68 83.24 41.62	138.72
26 05 33 13-0143	EA	6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	798.19 125.04 62.52	208.40
26 05 33 13-0144 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0042)				
See CSI section 26 05 33 13-2183 for conduit field bending.				
26 05 33 13-0145	EA	1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	93.53 14.06 7.03	23.43
26 05 33 13-0146	EA	1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	110.81 16.28 8.14	27.13



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0147 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	129.04 18.50 9.25	30.83
26 05 33 13-0148 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	154.90 20.35 10.17	33.91
26 05 33 13-0149 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	204.52 25.52 12.76	42.55
26 05 33 13-0150 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	266.05 34.78 17.39	57.96
26 05 33 13-0151 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	327.06 39.22 19.61	65.35
26 05 33 13-0152 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	411.03 51.05 25.53	85.08
26 05 33 13-0153 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	661.96 83.24 41.62	138.72
26 05 33 13-0154 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow..... For Work In Restricted Working Space, Add For Installation Above 14', Add	810.66 125.04 62.52	208.40
26 05 33 13-0155 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0042)		
26 05 33 13-0156 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.36 3.63 1.81 3.63	6.04
26 05 33 13-0157 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.26 3.87 1.94 3.87	6.45
26 05 33 13-0158 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.06 4.35 2.18 4.35	7.25
26 05 33 13-0159 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.92 4.84 2.42 4.84	8.07
26 05 33 13-0160 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.25 6.05 3.02 6.05	10.08
26 05 33 13-0161 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.21 7.26 3.63 7.26	12.09
26 05 33 13-0162 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.69 8.47 4.23 8.47	14.11
26 05 33 13-0163 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.97 9.68 4.84 9.68	16.12
26 05 33 13-0164 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.83 10.88 5.44 10.88	15.18
26 05 33 13-0165 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.52 12.09 6.05 12.09	20.16
26 05 33 13-0166 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.64 13.30 6.65 13.30	22.18
26 05 33 13-0167 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.52 14.51 7.26 14.51	24.19
26 05 33 13-0168 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0042)		
26 05 33 13-0169 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.91 4.27 2.13 4.27	7.11

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0170	EA		3/4" Rigid Galvanized Steel (RGS) Steel Bushing	16.18	7.59
			For Work In Restricted Working Space, Add	4.55	
			For Installation Above 14', Add	2.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-0171	EA		1" Rigid Galvanized Steel (RGS) Steel Bushing	18.81	8.54
			For Work In Restricted Working Space, Add	5.12	
			For Installation Above 14', Add	2.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0172	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	21.11	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Installation Above 14', Add	2.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0173	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	26.89	11.85
			For Work In Restricted Working Space, Add	7.12	
			For Installation Above 14', Add	3.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0174	EA		2" Rigid Galvanized Steel (RGS) Steel Bushing	31.87	14.23
			For Work In Restricted Working Space, Add	8.54	
			For Installation Above 14', Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0175	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	43.90	16.60
			For Work In Restricted Working Space, Add	9.96	
			For Installation Above 14', Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-0176	EA		3" Rigid Galvanized Steel (RGS) Steel Bushing	51.99	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Installation Above 14', Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0177	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	75.49	21.34
			For Work In Restricted Working Space, Add	12.81	
			For Installation Above 14', Add	6.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	
26 05 33 13-0178	EA		4" Rigid Galvanized Steel (RGS) Steel Bushing	100.63	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Installation Above 14', Add	7.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0179	EA		5" Rigid Galvanized Steel (RGS) Steel Bushing	132.86	26.08
			For Work In Restricted Working Space, Add	15.65	
			For Installation Above 14', Add	7.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-0180	EA		6" Rigid Galvanized Steel (RGS) Steel Bushing	193.11	28.46
			For Work In Restricted Working Space, Add	17.08	
			For Installation Above 14', Add	8.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-0181 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0042)					
26 05 33 13-0182	EA		1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	15.72	7.11
			For Work In Restricted Working Space, Add	4.27	
			For Installation Above 14', Add	2.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0183	EA		3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	17.39	7.59
			For Work In Restricted Working Space, Add	4.55	
			For Installation Above 14', Add	2.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-0184	EA		1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	20.34	8.54
			For Work In Restricted Working Space, Add	5.12	
			For Installation Above 14', Add	2.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0185	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	23.70	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Installation Above 14', Add	2.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0186	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	29.58	11.85
			For Work In Restricted Working Space, Add	7.12	
			For Installation Above 14', Add	3.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0187	EA		2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	36.65	14.23
			For Work In Restricted Working Space, Add	8.54	
			For Installation Above 14', Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0188	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	50.38	16.60
			For Work In Restricted Working Space, Add	9.96	
			For Installation Above 14', Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-0189	EA		3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	59.58	18.97
			For Work In Restricted Working Space, Add	11.38	
			For Installation Above 14', Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0190	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	76.91	21.34
			For Work In Restricted Working Space, Add	12.81	
			For Installation Above 14', Add	6.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	



		Electrical	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0191 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	106.96	23.72
For Work In Restricted Working Space, Add	14.23	
For Installation Above 14', Add	7.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0192 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	139.76	26.08
For Work In Restricted Working Space, Add	15.65	
For Installation Above 14', Add	7.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-0193 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	195.54	28.46
For Work In Restricted Working Space, Add	17.08	
For Installation Above 14', Add	8.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-0194 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0042)		
26 05 33 13-0195 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	23.09	8.54
For Work In Restricted Working Space, Add	5.12	
For Installation Above 14', Add	2.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0196 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	25.83	9.49
For Work In Restricted Working Space, Add	5.69	
For Installation Above 14', Add	2.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0197 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	29.43	10.43
For Work In Restricted Working Space, Add	6.26	
For Installation Above 14', Add	3.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0198 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	34.79	11.85
For Work In Restricted Working Space, Add	7.12	
For Installation Above 14', Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0199 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	42.19	14.70
For Work In Restricted Working Space, Add	8.82	
For Installation Above 14', Add	4.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.82	
26 05 33 13-0200 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	52.86	17.55
For Work In Restricted Working Space, Add	10.53	
For Installation Above 14', Add	5.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.53	
26 05 33 13-0201 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	69.78	20.39
For Work In Restricted Working Space, Add	12.23	
For Installation Above 14', Add	6.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.23	
26 05 33 13-0202 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	77.35	23.72
For Work In Restricted Working Space, Add	14.23	
For Installation Above 14', Add	7.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0203 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	87.39	26.56
For Work In Restricted Working Space, Add	15.94	
For Installation Above 14', Add	7.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.94	
26 05 33 13-0204 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	111.26	29.41
For Work In Restricted Working Space, Add	17.64	
For Installation Above 14', Add	8.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.64	
26 05 33 13-0205 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	154.78	32.26
For Work In Restricted Working Space, Add	19.35	
For Installation Above 14', Add	9.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.35	
26 05 33 13-0206 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	210.32	35.57
For Work In Restricted Working Space, Add	21.35	
For Installation Above 14', Add	10.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.35	
26 05 33 13-0207 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0042)		
26 05 33 13-0208 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	12.71	4.36
For Work In Restricted Working Space, Add	3.25	
For Installation Above 14', Add	1.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-0209 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	15.15	5.03
For Work In Restricted Working Space, Add	3.76	
For Installation Above 14', Add	1.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.76	
26 05 33 13-0210 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	19.29	6.07
For Work In Restricted Working Space, Add	4.53	
For Installation Above 14', Add	2.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.53	
26 05 33 13-0211 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	26.99	7.50
For Work In Restricted Working Space, Add	5.64	
For Installation Above 14', Add	2.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.64	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0212 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	36.41	10.05
For Work In Restricted Working Space, Add	7.55	
For Installation Above 14', Add	3.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.55	
26 05 33 13-0213 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	59.76	15.08
For Work In Restricted Working Space, Add	11.31	
For Installation Above 14', Add	5.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 05 33 13-0214 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	96.35	16.69
For Work In Restricted Working Space, Add	12.52	
For Installation Above 14', Add	6.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.52	
26 05 33 13-0215 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	115.19	20.20
For Work In Restricted Working Space, Add	15.17	
For Installation Above 14', Add	7.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.17	
26 05 33 13-0216 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	153.55	25.32
For Work In Restricted Working Space, Add	18.98	
For Installation Above 14', Add	9.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0217 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	180.65	30.35
For Work In Restricted Working Space, Add	22.77	
For Installation Above 14', Add	11.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0218 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	296.07	33.77
For Work In Restricted Working Space, Add	25.30	
For Installation Above 14', Add	12.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.30	
26 05 33 13-0219 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	351.16	37.94
For Work In Restricted Working Space, Add	28.45	
For Installation Above 14', Add	14.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 33 13-0220 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0042)		
26 05 33 13-0221 EA 1/2" x 2" Long Rigid Galvanized Steel (RGS) Nipple	13.40	6.16
For Work In Restricted Working Space, Add	3.70	
For Installation Above 14', Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0222 EA 3/4" x 2" Long Rigid Galvanized Steel (RGS) Nipple	15.42	7.11
For Work In Restricted Working Space, Add	4.27	
For Installation Above 14', Add	2.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0223 EA 1" x 2" Long Rigid Galvanized Steel (RGS) Nipple	19.68	9.01
For Work In Restricted Working Space, Add	5.41	
For Installation Above 14', Add	2.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0224 EA 1-1/4" x 2" Long Rigid Galvanized Steel (RGS) Nipple	22.98	10.43
For Work In Restricted Working Space, Add	6.26	
For Installation Above 14', Add	3.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0225 EA 1-1/2" x 2" Long Rigid Galvanized Steel (RGS) Nipple	26.22	11.85
For Work In Restricted Working Space, Add	7.11	
For Installation Above 14', Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0226 EA 1/2" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple	13.48	6.16
For Work In Restricted Working Space, Add	3.70	
For Installation Above 14', Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0227 EA 3/4" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple	15.56	7.11
For Work In Restricted Working Space, Add	4.27	
For Installation Above 14', Add	2.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0228 EA 1" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple	19.83	9.01
For Work In Restricted Working Space, Add	5.41	
For Installation Above 14', Add	2.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0229 EA 1-1/4" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple	23.18	10.43
For Work In Restricted Working Space, Add	6.26	
For Installation Above 14', Add	3.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0230 EA 1-1/2" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple	26.54	11.85
For Work In Restricted Working Space, Add	7.11	
For Installation Above 14', Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0231 EA 2" x 2-1/2" Long Rigid Galvanized Steel (RGS) Nipple	29.98	13.28
For Work In Restricted Working Space, Add	7.97	
For Installation Above 14', Add	3.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-0232 EA 1/2" x 3" Long Rigid Galvanized Steel (RGS) Nipple	13.58	6.16
For Work In Restricted Working Space, Add	3.70	
For Installation Above 14', Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	



		Electrical	26
		Common Work Results For Electrical	26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0233	EA	3/4" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	15.67	7.11	
		For Work In Restricted Working Space, Add	4.27		
		For Installation Above 14', Add	2.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-0234	EA	1" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	20.04	9.01	
		For Work In Restricted Working Space, Add	5.41		
		For Installation Above 14', Add	2.70		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41		
26 05 33 13-0235	EA	1-1/4" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	23.36	10.43	
		For Work In Restricted Working Space, Add	6.26		
		For Installation Above 14', Add	3.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26		
26 05 33 13-0236	EA	1-1/2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	26.76	11.85	
		For Work In Restricted Working Space, Add	7.11		
		For Installation Above 14', Add	3.56		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11		
26 05 33 13-0237	EA	2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	30.50	13.28	
		For Work In Restricted Working Space, Add	7.97		
		For Installation Above 14', Add	3.98		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97		
26 05 33 13-0238	EA	2-1/2" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	40.41	16.12	
		For Work In Restricted Working Space, Add	9.68		
		For Installation Above 14', Add	4.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68		
26 05 33 13-0239	EA	3" x 3" Long Rigid Galvanized Steel (RGS) Nipple.....	54.61	22.30	
		For Work In Restricted Working Space, Add	13.37		
		For Installation Above 14', Add	6.69		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37		
26 05 33 13-0240	EA	1/2" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	13.69	6.16	
		For Work In Restricted Working Space, Add	3.70		
		For Installation Above 14', Add	1.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70		
26 05 33 13-0241	EA	3/4" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	15.74	7.11	
		For Work In Restricted Working Space, Add	4.27		
		For Installation Above 14', Add	2.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-0242	EA	1" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	20.31	9.01	
		For Work In Restricted Working Space, Add	5.41		
		For Installation Above 14', Add	2.70		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41		
26 05 33 13-0243	EA	1-1/4" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	23.70	10.43	
		For Work In Restricted Working Space, Add	6.26		
		For Installation Above 14', Add	3.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26		
26 05 33 13-0244	EA	1-1/2" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	27.21	11.85	
		For Work In Restricted Working Space, Add	7.11		
		For Installation Above 14', Add	3.56		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11		
26 05 33 13-0245	EA	2" x 3-1/2" Long Rigid Galvanized Steel (RGS), Nipple.....	31.05	13.28	
		For Work In Restricted Working Space, Add	7.97		
		For Installation Above 14', Add	3.98		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97		
26 05 33 13-0246	EA	2-1/2" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	41.90	16.12	
		For Work In Restricted Working Space, Add	9.68		
		For Installation Above 14', Add	4.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68		
26 05 33 13-0247	EA	3" x 3-1/2" Long Rigid Galvanized Steel (RGS) Nipple.....	55.90	22.30	
		For Work In Restricted Working Space, Add	13.37		
		For Installation Above 14', Add	6.69		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37		
26 05 33 13-0248	EA	1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	13.81	6.16	
		For Work In Restricted Working Space, Add	3.70		
		For Installation Above 14', Add	1.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70		
26 05 33 13-0249	EA	3/4" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	15.94	7.11	
		For Work In Restricted Working Space, Add	4.27		
		For Installation Above 14', Add	2.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-0250	EA	1" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	20.47	9.01	
		For Work In Restricted Working Space, Add	5.41		
		For Installation Above 14', Add	2.70		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41		
26 05 33 13-0251	EA	1-1/4" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	23.87	10.43	
		For Work In Restricted Working Space, Add	6.26		
		For Installation Above 14', Add	3.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26		
26 05 33 13-0252	EA	1-1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	27.52	11.85	
		For Work In Restricted Working Space, Add	7.11		
		For Installation Above 14', Add	3.56		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11		
26 05 33 13-0253	EA	2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	31.52	13.28	
		For Work In Restricted Working Space, Add	7.97		
		For Installation Above 14', Add	3.98		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97		

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0254	EA	2-1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	42.36	16.12
		For Work In Restricted Working Space, Add	9.68	
		For Installation Above 14', Add	4.84	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-0255	EA	3" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	56.85	22.30
		For Work In Restricted Working Space, Add	13.37	
		For Installation Above 14', Add	6.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0256	EA	3-1/2" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	65.21	25.14
		For Work In Restricted Working Space, Add	15.08	
		For Installation Above 14', Add	7.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0257	EA	4" x 4" Long Rigid Galvanized Steel (RGS) Nipple.....	82.21	32.73
		For Work In Restricted Working Space, Add	19.63	
		For Installation Above 14', Add	9.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-0258	EA	1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	13.98	6.16
		For Work In Restricted Working Space, Add	3.70	
		For Installation Above 14', Add	1.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0259	EA	3/4" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	16.20	7.11
		For Work In Restricted Working Space, Add	4.27	
		For Installation Above 14', Add	2.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0260	EA	1" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	20.80	9.01
		For Work In Restricted Working Space, Add	5.41	
		For Installation Above 14', Add	2.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0261	EA	1-1/4" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	24.34	10.43
		For Work In Restricted Working Space, Add	6.26	
		For Installation Above 14', Add	3.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0262	EA	1-1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	27.98	11.85
		For Work In Restricted Working Space, Add	7.11	
		For Installation Above 14', Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0263	EA	2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	32.35	13.28
		For Work In Restricted Working Space, Add	7.97	
		For Installation Above 14', Add	3.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-0264	EA	2-1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	44.19	16.12
		For Work In Restricted Working Space, Add	9.68	
		For Installation Above 14', Add	4.84	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-0265	EA	3" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	58.85	22.30
		For Work In Restricted Working Space, Add	13.37	
		For Installation Above 14', Add	6.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0266	EA	3-1/2" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	67.19	25.14
		For Work In Restricted Working Space, Add	15.08	
		For Installation Above 14', Add	7.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0267	EA	4" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	85.11	32.73
		For Work In Restricted Working Space, Add	19.63	
		For Installation Above 14', Add	9.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-0268	EA	5" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	128.28	45.05
		For Work In Restricted Working Space, Add	27.03	
		For Installation Above 14', Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	
26 05 33 13-0269	EA	6" x 5" Long Rigid Galvanized Steel (RGS) Nipple.....	163.19	57.77
		For Work In Restricted Working Space, Add	34.68	
		For Installation Above 14', Add	17.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68	
26 05 33 13-0270	EA	1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	14.30	6.16
		For Work In Restricted Working Space, Add	3.70	
		For Installation Above 14', Add	1.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0271	EA	3/4" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	16.52	7.11
		For Work In Restricted Working Space, Add	4.27	
		For Installation Above 14', Add	2.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0272	EA	1" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	21.06	9.01
		For Work In Restricted Working Space, Add	5.41	
		For Installation Above 14', Add	2.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0273	EA	1-1/4" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	24.78	10.43
		For Work In Restricted Working Space, Add	6.26	
		For Installation Above 14', Add	3.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0274	EA	1-1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	28.96	11.85
		For Work In Restricted Working Space, Add	7.11	
		For Installation Above 14', Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0275	EA	2" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	33.18	13.28	
		For Work In Restricted Working Space, Add	7.97		
		For Installation Above 14', Add	3.98		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97		
26 05 33 13-0276	EA	2-1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	45.81	16.12	
		For Work In Restricted Working Space, Add	9.68		
		For Installation Above 14', Add	4.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68		
26 05 33 13-0277	EA	3" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	60.87	22.30	
		For Work In Restricted Working Space, Add	13.37		
		For Installation Above 14', Add	6.69		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37		
26 05 33 13-0278	EA	3-1/2" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	69.61	25.14	
		For Work In Restricted Working Space, Add	15.08		
		For Installation Above 14', Add	7.54		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08		
26 05 33 13-0279	EA	4" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	87.40	32.73	
		For Work In Restricted Working Space, Add	19.63		
		For Installation Above 14', Add	9.82		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63		
26 05 33 13-0280	EA	5" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	131.64	45.05	
		For Work In Restricted Working Space, Add	27.03		
		For Installation Above 14', Add	13.52		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03		
26 05 33 13-0281	EA	6" x 6" Long Rigid Galvanized Steel (RGS) Nipple.....	168.11	57.77	
		For Work In Restricted Working Space, Add	34.68		
		For Installation Above 14', Add	17.34		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68		
26 05 33 13-0282	EA	1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	15.47	6.16	
		For Work In Restricted Working Space, Add	3.70		
		For Installation Above 14', Add	1.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70		
26 05 33 13-0283	EA	3/4" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	18.02	7.11	
		For Work In Restricted Working Space, Add	4.27		
		For Installation Above 14', Add	2.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-0284	EA	1" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	22.81	9.01	
		For Work In Restricted Working Space, Add	5.41		
		For Installation Above 14', Add	2.70		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41		
26 05 33 13-0285	EA	1-1/4" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	27.28	10.43	
		For Work In Restricted Working Space, Add	6.26		
		For Installation Above 14', Add	3.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26		
26 05 33 13-0286	EA	1-1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	31.75	11.85	
		For Work In Restricted Working Space, Add	7.11		
		For Installation Above 14', Add	3.56		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11		
26 05 33 13-0287	EA	2" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	36.12	13.28	
		For Work In Restricted Working Space, Add	7.97		
		For Installation Above 14', Add	3.98		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97		
26 05 33 13-0288	EA	2-1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	50.08	16.12	
		For Work In Restricted Working Space, Add	9.68		
		For Installation Above 14', Add	4.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68		
26 05 33 13-0289	EA	3" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	65.78	22.30	
		For Work In Restricted Working Space, Add	13.37		
		For Installation Above 14', Add	6.69		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37		
26 05 33 13-0290	EA	3-1/2" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	74.50	25.14	
		For Work In Restricted Working Space, Add	15.08		
		For Installation Above 14', Add	7.54		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08		
26 05 33 13-0291	EA	4" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	92.81	32.73	
		For Work In Restricted Working Space, Add	19.63		
		For Installation Above 14', Add	9.82		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63		
26 05 33 13-0292	EA	5" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	139.44	45.05	
		For Work In Restricted Working Space, Add	27.03		
		For Installation Above 14', Add	13.52		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03		
26 05 33 13-0293	EA	6" x 8" Long Rigid Galvanized Steel (RGS) Nipple.....	176.87	57.77	
		For Work In Restricted Working Space, Add	34.68		
		For Installation Above 14', Add	17.34		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68		
26 05 33 13-0294	EA	1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple.....	16.25	6.16	
		For Work In Restricted Working Space, Add	3.70		
		For Installation Above 14', Add	1.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70		
26 05 33 13-0295	EA	3/4" x 10" Long Rigid Galvanized Steel (RGS) Nipple.....	18.78	7.11	
		For Work In Restricted Working Space, Add	4.27		
		For Installation Above 14', Add	2.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0296	EA	1" x 10" Long Rigid Galvanized Steel (RGS) Nipple	24.21	9.01
		For Work In Restricted Working Space, Add	5.41	
		For Installation Above 14', Add	2.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0297	EA	1-1/4" x 10" Long Rigid Galvanized Steel (RGS) Nipple	28.94	10.43
		For Work In Restricted Working Space, Add	6.26	
		For Installation Above 14', Add	3.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0298	EA	1-1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	33.38	11.85
		For Work In Restricted Working Space, Add	7.11	
		For Installation Above 14', Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0299	EA	2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	38.01	13.28
		For Work In Restricted Working Space, Add	7.97	
		For Installation Above 14', Add	3.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-0300	EA	2-1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	52.95	16.12
		For Work In Restricted Working Space, Add	9.68	
		For Installation Above 14', Add	4.84	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-0301	EA	3" x 10" Long Rigid Galvanized Steel (RGS) Nipple	69.64	22.30
		For Work In Restricted Working Space, Add	13.37	
		For Installation Above 14', Add	6.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0302	EA	3-1/2" x 10" Long Rigid Galvanized Steel (RGS) Nipple	79.58	25.14
		For Work In Restricted Working Space, Add	15.08	
		For Installation Above 14', Add	7.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0303	EA	4" x 10" Long Rigid Galvanized Steel (RGS) Nipple	99.25	32.73
		For Work In Restricted Working Space, Add	19.63	
		For Installation Above 14', Add	9.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-0304	EA	5" x 10" Long Rigid Galvanized Steel (RGS) Nipple	147.94	45.05
		For Work In Restricted Working Space, Add	27.03	
		For Installation Above 14', Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	
26 05 33 13-0305	EA	6" x 10" Long Rigid Galvanized Steel (RGS) Nipple	192.17	57.77
		For Work In Restricted Working Space, Add	34.68	
		For Installation Above 14', Add	17.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68	
26 05 33 13-0306	EA	1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	16.85	6.16
		For Work In Restricted Working Space, Add	3.70	
		For Installation Above 14', Add	1.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0307	EA	3/4" x 12" Long Rigid Galvanized Steel (RGS) Nipple	19.34	7.11
		For Work In Restricted Working Space, Add	4.27	
		For Installation Above 14', Add	2.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0308	EA	1" x 12" Long Rigid Galvanized Steel (RGS) Nipple	25.04	9.01
		For Work In Restricted Working Space, Add	5.41	
		For Installation Above 14', Add	2.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0309	EA	1-1/4" x 12" Long Rigid Galvanized Steel (RGS) Nipple	30.26	10.43
		For Work In Restricted Working Space, Add	6.26	
		For Installation Above 14', Add	3.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-0310	EA	1-1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	34.20	11.85
		For Work In Restricted Working Space, Add	7.11	
		For Installation Above 14', Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0311	EA	2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	39.59	13.28
		For Work In Restricted Working Space, Add	7.97	
		For Installation Above 14', Add	3.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-0312	EA	2-1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	56.33	16.12
		For Work In Restricted Working Space, Add	9.68	
		For Installation Above 14', Add	4.84	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-0313	EA	3" x 12" Long Rigid Galvanized Steel (RGS) Nipple	75.00	22.30
		For Work In Restricted Working Space, Add	13.37	
		For Installation Above 14', Add	6.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-0314	EA	3-1/2" x 12" Long Rigid Galvanized Steel (RGS) Nipple	84.53	25.14
		For Work In Restricted Working Space, Add	15.08	
		For Installation Above 14', Add	7.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-0315	EA	4" x 12" Long Rigid Galvanized Steel (RGS) Nipple	105.69	32.73
		For Work In Restricted Working Space, Add	19.63	
		For Installation Above 14', Add	9.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-0316	EA	5" x 12" Long Rigid Galvanized Steel (RGS) Nipple	160.17	45.05
		For Work In Restricted Working Space, Add	27.03	
		For Installation Above 14', Add	13.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	



		Electrical	26
		Common Work Results For Electrical	26 05
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0317	EA 6" x 12" Long Rigid Galvanized Steel (RGS) Nipple.....	200.68		57.77
	For Work In Restricted Working Space, Add	34.68		
	For Installation Above 14', Add	17.34		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.68		
26 05 33 13-0318 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0042)				
26 05 33 13-0319	EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	13.44		4.93
	For Work In Restricted Working Space, Add	3.73		
	For Installation Above 14', Add	1.86		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.73		
26 05 33 13-0320	EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	15.69		5.69
	For Work In Restricted Working Space, Add	4.25		
	For Installation Above 14', Add	2.12		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.25		
26 05 33 13-0321	EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	19.86		7.20
	For Work In Restricted Working Space, Add	5.43		
	For Installation Above 14', Add	2.72		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.43		
26 05 33 13-0322	EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	24.52		8.63
	For Work In Restricted Working Space, Add	6.50		
	For Installation Above 14', Add	3.25		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50		
26 05 33 13-0323	EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	26.85		9.49
	For Work In Restricted Working Space, Add	7.12		
	For Installation Above 14', Add	3.56		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12		
26 05 33 13-0324	EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	34.18		11.66
	For Work In Restricted Working Space, Add	8.77		
	For Installation Above 14', Add	4.38		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.77		
26 05 33 13-0325	EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	55.68		18.97
	For Work In Restricted Working Space, Add	14.23		
	For Installation Above 14', Add	7.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23		
26 05 33 13-0326	EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	84.18		26.18
	For Work In Restricted Working Space, Add	19.64		
	For Installation Above 14', Add	9.82		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.64		
26 05 33 13-0327	EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	102.18		30.92
	For Work In Restricted Working Space, Add	23.06		
	For Installation Above 14', Add	11.53		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.06		
26 05 33 13-0328	EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	120.99		35.66
	For Work In Restricted Working Space, Add	26.75		
	For Installation Above 14', Add	13.38		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.75		
26 05 33 13-0329 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0042)				
	Note: Erickson fittings.			
26 05 33 13-0330	EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	39.87		15.18
	For Work In Restricted Working Space, Add	11.40		
	For Installation Above 14', Add	5.70		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.40		
26 05 33 13-0331	EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	44.81		16.97
	For Work In Restricted Working Space, Add	12.72		
	For Installation Above 14', Add	6.36		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.72		
26 05 33 13-0332	EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	51.67		18.88
	For Work In Restricted Working Space, Add	14.17		
	For Installation Above 14', Add	7.08		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.17		
26 05 33 13-0333	EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	61.16		20.68
	For Work In Restricted Working Space, Add	15.51		
	For Installation Above 14', Add	7.75		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.51		
26 05 33 13-0334	EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	67.89		22.58
	For Work In Restricted Working Space, Add	16.96		
	For Installation Above 14', Add	8.48		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.96		
26 05 33 13-0335	EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	83.97		24.47
	For Work In Restricted Working Space, Add	18.37		
	For Installation Above 14', Add	9.19		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.37		
26 05 33 13-0336	EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	128.54		30.35
	For Work In Restricted Working Space, Add	22.77		
	For Installation Above 14', Add	11.38		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77		
26 05 33 13-0337	EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	174.77		37.94
	For Work In Restricted Working Space, Add	28.46		
	For Installation Above 14', Add	14.23		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0338	EA	3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	246.98	45.53
		For Work In Restricted Working Space, Add	34.16	
		For Installation Above 14', Add	17.08	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16	
26 05 33 13-0339	EA	4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	279.84	49.32
		For Work In Restricted Working Space, Add	36.99	
		For Installation Above 14', Add	18.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 05 33 13-0340	EA	5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	473.03	60.70
		For Work In Restricted Working Space, Add	45.53	
		For Installation Above 14', Add	22.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.53	
26 05 33 13-0341	EA	6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	603.71	70.19
		For Work In Restricted Working Space, Add	52.64	
		For Installation Above 14', Add	26.32	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.64	
26 05 33 13-0342 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0042)				
26 05 33 13-0343	EA	1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	21.67	7.59
		For Work In Restricted Working Space, Add	5.69	
		For Installation Above 14', Add	2.85	
26 05 33 13-0344	EA	3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	24.07	8.35
		For Work In Restricted Working Space, Add	6.26	
		For Installation Above 14', Add	3.13	
26 05 33 13-0345	EA	1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	27.53	9.49
		For Work In Restricted Working Space, Add	7.12	
		For Installation Above 14', Add	3.56	
26 05 33 13-0346	EA	1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	30.63	10.24
		For Work In Restricted Working Space, Add	7.68	
		For Installation Above 14', Add	3.84	
26 05 33 13-0347	EA	1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	35.46	11.38
		For Work In Restricted Working Space, Add	8.54	
		For Installation Above 14', Add	4.27	
26 05 33 13-0348	EA	2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	41.65	12.53
		For Work In Restricted Working Space, Add	9.39	
		For Installation Above 14', Add	4.70	
26 05 33 13-0349	EA	2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	54.53	15.18
		For Work In Restricted Working Space, Add	11.38	
		For Installation Above 14', Add	5.69	
26 05 33 13-0350	EA	3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	67.67	18.97
		For Work In Restricted Working Space, Add	14.23	
		For Installation Above 14', Add	7.11	
26 05 33 13-0351	EA	3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	81.27	22.77
		For Work In Restricted Working Space, Add	17.08	
		For Installation Above 14', Add	8.54	
26 05 33 13-0352	EA	4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	90.58	24.66
		For Work In Restricted Working Space, Add	18.50	
		For Installation Above 14', Add	9.25	
26 05 33 13-0353 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0042)				
26 05 33 13-0354	EA	1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	20.39	8.54
		For Work In Restricted Working Space, Add	5.12	
		For Installation Above 14', Add	2.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0355	EA	3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	22.70	9.49
		For Work In Restricted Working Space, Add	5.69	
		For Installation Above 14', Add	2.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0356	EA	1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	28.10	11.85
		For Work In Restricted Working Space, Add	7.12	
		For Installation Above 14', Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0357	EA	1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	34.41	14.23
		For Work In Restricted Working Space, Add	8.54	
		For Installation Above 14', Add	4.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0358	EA	1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	44.48	18.97
		For Work In Restricted Working Space, Add	11.38	
		For Installation Above 14', Add	5.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0359	EA	2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	51.43	21.34
		For Work In Restricted Working Space, Add	12.81	
		For Installation Above 14', Add	6.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	
26 05 33 13-0360	EA	2-1/2" Water Tight Conduit Hubs	62.26	23.72
		For Work In Restricted Working Space, Add	14.23	
		For Installation Above 14', Add	7.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0361	EA	3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	83.01	29.88
		For Work In Restricted Working Space, Add	17.93	
		For Installation Above 14', Add	8.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.93	



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Common Work Results For Electrical		26 05
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0362 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.79 21.63 10.81 21.63	36.04
26 05 33 13-0363 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs..... For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.58 25.61 12.81 25.61	42.69
26 05 33 13-0364 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement _(26 05 33 13-0042)		
Note: Type AX		
26 05 33 13-0365 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	88.16 11.39 5.69	15.18
26 05 33 13-0366 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	100.01 12.81 6.40	17.08
26 05 33 13-0367 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	117.95 14.23 7.12	18.97
26 05 33 13-0368 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	143.51 15.65 7.83	20.87
26 05 33 13-0369 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	178.98 17.08 8.54	22.77
26 05 33 13-0370 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	244.74 18.50 9.25	24.66
26 05 33 13-0371 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	371.86 22.77 11.38	30.35
26 05 33 13-0372 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	476.05 28.46 14.23	37.94
26 05 33 13-0373 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	691.09 34.15 17.07	45.53
26 05 33 13-0374 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	737.01 36.99 18.50	49.32
26 05 33 13-0375 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	1,123.05 45.53 22.77	60.70
26 05 33 13-0376 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	1,376.77 50.54 25.27	67.35
26 05 33 13-0377 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement _(26 05 33 13-0042)		
Note: Type AX-8		
26 05 33 13-0378 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	96.55 11.39 5.69	15.18
26 05 33 13-0379 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... For Work In Restricted Working Space, Add For Installation Above 14', Add	107.44 12.81 6.40	17.08
26 05 33 13-0380 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	129.62 14.23 7.12	18.97
26 05 33 13-0381 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	161.89 15.65 7.83	20.87
26 05 33 13-0382 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	215.50 17.08 8.54	22.77
26 05 33 13-0383 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	262.19 18.50 9.25	24.66
26 05 33 13-0384 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	484.98 22.77 11.38	30.35
26 05 33 13-0385 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	553.29 28.46 14.23	37.94
26 05 33 13-0386 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	843.74 34.15 17.07	45.53
26 05 33 13-0387 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement For Work In Restricted Working Space, Add For Installation Above 14', Add	913.45 36.99 18.50	49.32

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0388	EA	5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	1,271.78 45.53 22.77	60.70
26 05 33 13-0389	EA	6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	1,568.12 50.54 25.27	67.35
26 05 33 13-0390 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0042)				
Note: Type EX				
26 05 33 13-0391	EA	1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	108.84 11.39 5.69	15.18
26 05 33 13-0392	EA	3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	136.41 12.81 6.40	17.08
26 05 33 13-0393	EA	1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	168.75 14.23 7.12	18.97
26 05 33 13-0394	EA	1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	204.26 15.65 7.83	20.87
26 05 33 13-0395	EA	1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	272.87 17.08 8.54	22.77
26 05 33 13-0396	EA	2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	373.05 18.50 9.25	24.66
26 05 33 13-0397	EA	2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	576.25 22.77 11.38	30.35
26 05 33 13-0398	EA	3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	775.52 28.46 14.23	37.94
26 05 33 13-0399	EA	3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	1,159.82 34.15 17.07	45.53
26 05 33 13-0400	EA	4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	1,201.34 36.99 18.50	49.32
26 05 33 13-0401	EA	5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	1,802.47 45.53 22.77	60.70
26 05 33 13-0402	EA	6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	2,231.32 50.54 25.27	67.35
26 05 33 13-0403 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings (26 05 33 13-0042)				
Note: Type DX				
26 05 33 13-0404	EA	1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	184.59 11.39 5.69	15.18
26 05 33 13-0405	EA	3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	219.48 12.81 6.40	17.08
26 05 33 13-0406	EA	1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	264.62 14.23 7.12	18.97
26 05 33 13-0407	EA	1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	310.49 15.65 7.83	20.87
26 05 33 13-0408	EA	1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	343.22 17.08 8.54	22.77
26 05 33 13-0409	EA	2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	422.73 18.50 9.25	24.66
26 05 33 13-0410	EA	2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	557.81 22.77 11.38	30.35
26 05 33 13-0411	EA	3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	707.17 28.46 14.23	37.94
26 05 33 13-0412	EA	3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	796.88 34.15 17.07	45.53
26 05 33 13-0413	EA	4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	963.87 36.99 18.50	49.32



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0414 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	1,638.72 45.53 22.77	60.70
26 05 33 13-0415 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting For Work In Restricted Working Space, Add For Installation Above 14', Add	2,593.47 50.54 25.27	67.35
26 05 33 13-0416 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0042)		
26 05 33 13-0417 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	49.21 5.69 2.85	7.59
26 05 33 13-0418 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	57.01 7.12 3.56	9.49
26 05 33 13-0419 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	70.15 8.54 4.27	11.38
26 05 33 13-0420 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	98.18 11.38 5.69	15.18
26 05 33 13-0421 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	148.67 17.08 8.54	22.77
26 05 33 13-0422 EA 5" To 6" Conduit, 14" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	250.20 22.77 11.38	30.35
26 05 33 13-0423 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	54.39 5.69 2.85	7.59
26 05 33 13-0424 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	63.55 7.12 3.56	9.49
26 05 33 13-0425 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	76.14 8.54 4.27	11.38
26 05 33 13-0426 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	106.14 11.38 5.69	15.18
26 05 33 13-0427 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	159.22 17.08 8.54	22.77
26 05 33 13-0428 EA 5" To 6" Conduit, 24" Bonding Jumper For Work In Restricted Working Space, Add For Installation Above 14', Add	284.24 22.77 11.38	30.35
26 05 33 13-0429 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0042)		
26 05 33 13-0430 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.17 14.23 7.11 14.23	23.72
26 05 33 13-0431 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.93 17.08 8.54 17.08	28.46
26 05 33 13-0432 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.69 19.92 9.96 19.92	33.20
26 05 33 13-0433 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.24 22.77 11.38 22.77	37.94
26 05 33 13-0434 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	137.10 25.61 12.81 25.61	42.69
26 05 33 13-0435 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.86 28.46 14.23 28.46	47.43
26 05 33 13-0436 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	217.94 34.15 17.07 34.15	56.92
26 05 33 13-0437 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	259.98 39.84 19.92 39.84	66.40
26 05 33 13-0438 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	518.57 45.53 22.77 45.53	75.89

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0439 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	595.25	85.38
For Work In Restricted Working Space, Add	51.22	
For Installation Above 14', Add	25.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.22	
26 05 33 13-0440 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0042)		
26 05 33 13-0441 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	12.36	5.69
For Work In Restricted Working Space, Add	3.41	
For Installation Above 14', Add	1.71	
26 05 33 13-0442 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	17.35	8.07
For Work In Restricted Working Space, Add	4.84	
For Installation Above 14', Add	2.42	
26 05 33 13-0443 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	22.75	10.43
For Work In Restricted Working Space, Add	6.26	
For Installation Above 14', Add	3.13	
26 05 33 13-0444 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	26.09	11.85
For Work In Restricted Working Space, Add	7.12	
For Installation Above 14', Add	3.56	
26 05 33 13-0445 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	31.43	14.23
For Work In Restricted Working Space, Add	8.54	
For Installation Above 14', Add	4.27	
26 05 33 13-0446 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	36.68	16.12
For Work In Restricted Working Space, Add	9.68	
For Installation Above 14', Add	4.84	
26 05 33 13-0447 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	45.97	18.03
For Work In Restricted Working Space, Add	10.81	
For Installation Above 14', Add	5.41	
26 05 33 13-0448 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	53.69	20.39
For Work In Restricted Working Space, Add	12.23	
For Installation Above 14', Add	6.12	
26 05 33 13-0449 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	62.02	22.30
For Work In Restricted Working Space, Add	13.37	
For Installation Above 14', Add	6.69	
26 05 33 13-0450 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	65.60	23.72
For Work In Restricted Working Space, Add	14.23	
For Installation Above 14', Add	7.11	
26 05 33 13-0451 Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0042)		
26 05 33 13-0452 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	2.76	0.95
26 05 33 13-0453 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.85	1.42
26 05 33 13-0454 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	6.39	2.37
26 05 33 13-0455 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	9.22	3.32
26 05 33 13-0456 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	11.00	3.80
26 05 33 13-0457 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	12.88	4.27
26 05 33 13-0458 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0042)		
26 05 33 13-0459 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	103.45	11.51
For Work In Restricted Working Space, Add	8.63	
For Installation Above 14', Add	4.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.63	
26 05 33 13-0460 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	106.22	12.62
For Work In Restricted Working Space, Add	9.47	
For Installation Above 14', Add	4.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.47	
26 05 33 13-0461 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	125.95	13.85
For Work In Restricted Working Space, Add	10.37	
For Installation Above 14', Add	5.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.37	
26 05 33 13-0462 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	138.28	15.18
For Work In Restricted Working Space, Add	11.39	
For Installation Above 14', Add	5.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.39	
26 05 33 13-0463 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	157.48	17.08
For Work In Restricted Working Space, Add	12.81	
For Installation Above 14', Add	6.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.81	
26 05 33 13-0464 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	225.77	18.97
For Work In Restricted Working Space, Add	14.24	
For Installation Above 14', Add	7.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.24	
26 05 33 13-0465 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	263.87	25.32
For Work In Restricted Working Space, Add	18.98	
For Installation Above 14', Add	9.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0466 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	292.42	27.80
For Work In Restricted Working Space, Add	20.86	
For Installation Above 14', Add	10.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.86	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0467	EA		3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	337.80	30.35
			For Work In Restricted Working Space, Add	22.77	
			For Installation Above 14', Add	11.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0468	EA		4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	380.71	34.15
			For Work In Restricted Working Space, Add	25.61	
			For Installation Above 14', Add	12.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.61	
26 05 33 13-0469	EA		5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	501.63	37.94
			For Work In Restricted Working Space, Add	28.46	
			For Installation Above 14', Add	14.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-0470	EA		6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	617.95	42.12
			For Work In Restricted Working Space, Add	31.59	
			For Installation Above 14', Add	15.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.59	
26 05 33 13-0471 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0042)					
26 05 33 13-0472	EA		3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	15.37	7.36
			For Work In Restricted Working Space, Add	4.41	
			For Installation Above 14', Add	2.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.41	
26 05 33 13-0473	EA		1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	16.88	7.83
			For Work In Restricted Working Space, Add	4.70	
			For Installation Above 14', Add	2.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.70	
26 05 33 13-0474	EA		1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	17.35	8.07
			For Work In Restricted Working Space, Add	4.84	
			For Installation Above 14', Add	2.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.84	
26 05 33 13-0475	EA		1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	19.80	8.30
			For Work In Restricted Working Space, Add	4.98	
			For Installation Above 14', Add	2.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0476	EA		1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	20.28	8.54
			For Work In Restricted Working Space, Add	5.12	
			For Installation Above 14', Add	2.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0477	EA		1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	21.23	9.01
			For Work In Restricted Working Space, Add	5.41	
			For Installation Above 14', Add	2.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0478	EA		1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.85	9.49
			For Work In Restricted Working Space, Add	5.69	
			For Installation Above 14', Add	2.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0479	EA		1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	23.33	9.72
			For Work In Restricted Working Space, Add	5.84	
			For Installation Above 14', Add	2.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-0480	EA		1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.27	10.20
			For Work In Restricted Working Space, Add	6.12	
			For Installation Above 14', Add	3.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.12	
26 05 33 13-0481	EA		1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	25.22	10.67
			For Work In Restricted Working Space, Add	6.40	
			For Installation Above 14', Add	3.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.40	
26 05 33 13-0482	EA		2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	29.85	10.67
			For Work In Restricted Working Space, Add	6.40	
			For Installation Above 14', Add	3.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.40	
26 05 33 13-0483	EA		2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	30.32	10.91
			For Work In Restricted Working Space, Add	6.54	
			For Installation Above 14', Add	3.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-0484	EA		2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	31.28	11.38
			For Work In Restricted Working Space, Add	6.83	
			For Installation Above 14', Add	3.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0485	EA		2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	32.23	11.85
			For Work In Restricted Working Space, Add	7.12	
			For Installation Above 14', Add	3.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0486	EA		2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	34.59	13.05
			For Work In Restricted Working Space, Add	7.82	
			For Installation Above 14', Add	3.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.82	
26 05 33 13-0487	EA		2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	43.44	15.41
			For Work In Restricted Working Space, Add	9.25	
			For Installation Above 14', Add	4.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0488 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0042)		
26 05 33 13-0489 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....	1.95	0.95
For Work In Restricted Working Space, Add	0.57	
For Installation Above 14', Add	0.28	
26 05 33 13-0490 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....	2.94	1.42
For Work In Restricted Working Space, Add	0.86	
For Installation Above 14', Add	0.43	
26 05 33 13-0491 EA 1" Rigid Galvanized Steel (RGS) Locknuts.....	4.89	2.37
For Work In Restricted Working Space, Add	1.42	
For Installation Above 14', Add	0.71	
26 05 33 13-0492 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	6.88	3.32
For Work In Restricted Working Space, Add	1.99	
For Installation Above 14', Add	1.00	
26 05 33 13-0493 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	7.90	3.80
For Work In Restricted Working Space, Add	2.28	
For Installation Above 14', Add	1.14	
26 05 33 13-0494 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	8.92	4.27
For Work In Restricted Working Space, Add	2.56	
For Installation Above 14', Add	1.28	
26 05 33 13-0495 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	12.39	5.69
For Work In Restricted Working Space, Add	3.41	
For Installation Above 14', Add	1.71	
26 05 33 13-0496 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	15.34	7.11
For Work In Restricted Working Space, Add	4.27	
For Installation Above 14', Add	2.13	
26 05 33 13-0497 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	17.97	8.07
For Work In Restricted Working Space, Add	4.84	
For Installation Above 14', Add	2.42	
26 05 33 13-0498 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	20.16	9.01
For Work In Restricted Working Space, Add	5.41	
For Installation Above 14', Add	2.70	
26 05 33 13-0499 Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0042)		
26 05 33 13-0500 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	2.81	0.95
For Work In Restricted Working Space, Add	0.57	
For Installation Above 14', Add	0.28	
26 05 33 13-0501 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	3.96	1.42
For Work In Restricted Working Space, Add	0.86	
For Installation Above 14', Add	0.43	
26 05 33 13-0502 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	6.32	2.37
For Work In Restricted Working Space, Add	1.42	
For Installation Above 14', Add	0.71	
26 05 33 13-0503 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	8.84	3.32
For Work In Restricted Working Space, Add	1.99	
For Installation Above 14', Add	1.00	
26 05 33 13-0504 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	10.00	3.80
For Work In Restricted Working Space, Add	2.28	
For Installation Above 14', Add	1.14	
26 05 33 13-0505 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	11.69	4.27
For Work In Restricted Working Space, Add	2.56	
For Installation Above 14', Add	1.28	
26 05 33 13-0506 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	17.23	5.69
For Work In Restricted Working Space, Add	3.41	
For Installation Above 14', Add	1.71	
26 05 33 13-0507 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	21.66	7.11
For Work In Restricted Working Space, Add	4.27	
For Installation Above 14', Add	2.13	
26 05 33 13-0508 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	28.18	8.07
For Work In Restricted Working Space, Add	4.84	
For Installation Above 14', Add	2.42	
26 05 33 13-0509 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	33.58	9.01
For Work In Restricted Working Space, Add	5.41	
For Installation Above 14', Add	2.70	
26 05 33 13-0510 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0042)		
26 05 33 13-0511 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	8.00	2.85
For Work In Restricted Working Space, Add	1.71	
For Installation Above 14', Add	0.85	
26 05 33 13-0512 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	10.09	3.80
For Work In Restricted Working Space, Add	2.28	
For Installation Above 14', Add	1.14	
26 05 33 13-0513 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	12.86	4.74
For Work In Restricted Working Space, Add	2.85	
For Installation Above 14', Add	1.42	
26 05 33 13-0514 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	18.95	7.59
For Work In Restricted Working Space, Add	4.55	
For Installation Above 14', Add	2.28	
26 05 33 13-0515 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	21.34	8.54
For Work In Restricted Working Space, Add	5.12	
For Installation Above 14', Add	2.56	



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Common Work Results For Electrical		26 05
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0516 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add	24.19 5.69 2.85	9.49
26 05 33 13-0517 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add	32.87 6.83 3.42	11.38
26 05 33 13-0518 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add	40.02 8.54 4.27	14.23
26 05 33 13-0519 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add	49.89 11.38 5.69	18.97
26 05 33 13-0520 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing..... For Work In Restricted Working Space, Add For Installation Above 14', Add	60.93 14.23 7.11	23.72
26 05 33 13-0521 Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0042)		
26 05 33 13-0522 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	18.70 5.12 2.56	8.54
26 05 33 13-0523 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	21.58 5.69 2.85	9.49
26 05 33 13-0524 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	27.79 7.12 3.56	11.85
26 05 33 13-0525 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	36.12 8.54 4.27	14.23
26 05 33 13-0526 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	48.55 11.38 5.69	18.97
26 05 33 13-0527 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	67.79 14.23 7.11	23.72
26 05 33 13-0528 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	103.88 17.08 8.54	28.46
26 05 33 13-0529 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	128.65 19.92 9.96	33.20
26 05 33 13-0530 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	161.98 24.19 12.09	40.31
26 05 33 13-0531 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors..... For Work In Restricted Working Space, Add For Installation Above 14', Add	194.44 28.46 14.23	47.43
26 05 33 13-0532 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0042)		
26 05 33 13-0533 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	26.33 7.12 3.56	11.85
26 05 33 13-0534 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	32.65 8.54 4.27	14.23
26 05 33 13-0535 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	45.24 11.38 5.69	18.97
26 05 33 13-0536 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	58.24 14.23 7.11	23.72
26 05 33 13-0537 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	71.00 17.08 8.54	28.46
26 05 33 13-0538 EA 2" Rigid Galvanized Steel (RGS) Compression Connector..... For Work In Restricted Working Space, Add For Installation Above 14', Add	97.18 19.92 9.96	33.20
26 05 33 13-0539 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	140.73 22.77 11.38	37.94
26 05 33 13-0540 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	151.36 19.64 9.82	32.73
26 05 33 13-0541 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	212.69 29.88 14.94	49.80
26 05 33 13-0542 EA 4" Rigid Galvanized Steel (RGS) Compression Coupling..... For Work In Restricted Working Space, Add For Installation Above 14', Add	258.54 34.15 17.07	56.92
26 05 33 13-0543 Rigid Galvanized Steel (RGS) Knock Out Seal (26 05 33 13-0042)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0544 EA 1/2" Snap-in Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	4.94 1.42 0.71	2.37
26 05 33 13-0545 EA 3/4" Snap-in Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	5.95 1.71 0.85	2.85
26 05 33 13-0546 EA 1" Snap-in Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	7.05 1.99 1.00	3.32
26 05 33 13-0547 EA 1-1/4" Snap-in Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	9.07 2.56 1.28	4.27
26 05 33 13-0548 EA 1-1/2" Snap-in Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	10.23 2.85 1.42	4.74
26 05 33 13-0549 EA 2" Snap-in Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	12.43 3.41 1.71	5.69
26 05 33 13-0550 EA 2-1/2" 3-Piece Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	16.68 4.27 2.13	7.11
26 05 33 13-0551 EA 3" 3-Piece Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	19.23 4.84 2.42	8.07
26 05 33 13-0552 EA 3-1/2" 3-Piece Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	21.64 5.41 2.70	9.01
26 05 33 13-0553 EA 4" 3-Piece Knock Out Seal For Work In Restricted Working Space, Add For Installation Above 14', Add	24.69 5.98 2.99	9.96
26 05 33 13-0554 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0042)		
26 05 33 13-0555 EA 1/2" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68 3.41 1.71 3.41	5.69
26 05 33 13-0556 EA 3/4" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.78 3.98 1.99 3.98	6.64
26 05 33 13-0557 EA 1" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.21 4.84 2.42 4.84	8.07
26 05 33 13-0558 EA 1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.87 5.69 2.85 5.69	9.49
26 05 33 13-0559 EA 1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.16 7.12 3.56 7.12	11.85
26 05 33 13-0560 EA 2" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.42 8.54 4.27 8.54	14.23
26 05 33 13-0561 EA 2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.73 9.96 4.98 9.96	16.60
26 05 33 13-0562 EA 3" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.67 11.38 5.69 11.38	18.97
26 05 33 13-0563 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.35 12.81 6.40 12.81	21.34
26 05 33 13-0564 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.06 14.23 7.11 14.23	23.72
26 05 33 13-0565 Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0042)		
26 05 33 13-0566 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	22.27 5.12 2.56	8.54
26 05 33 13-0567 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	25.88 5.98 2.99	9.96
26 05 33 13-0568 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Installation Above 14', Add	32.67 6.83 3.42	11.38



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Common Work Results For Electrical		26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0569	EA		1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	41.79	14.23
			For Work In Restricted Working Space, Add	8.54	
			For Installation Above 14', Add	4.27	
26 05 33 13-0570	EA		1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	55.31	17.08
			For Work In Restricted Working Space, Add	10.25	
			For Installation Above 14', Add	5.12	
26 05 33 13-0571	EA		2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	73.33	19.92
			For Work In Restricted Working Space, Add	11.95	
			For Installation Above 14', Add	5.98	
26 05 33 13-0572	EA		2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	100.82	22.77
			For Work In Restricted Working Space, Add	13.66	
			For Installation Above 14', Add	6.83	
26 05 33 13-0573	EA		3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	174.05	28.46
			For Work In Restricted Working Space, Add	17.08	
			For Installation Above 14', Add	8.54	
26 05 33 13-0574			Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0041)		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0575			Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0574)		
			Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0576	LF		1/2" Electrical Metallic Tubing (EMT) Conduit.....	4.64	1.70
			For >250 To 500, Deduct	-0.02	
			For >500 To 1,000, Deduct	-0.24	
			For >1,000, Deduct	-0.36	
			For Installation In Metal Stud Wall, Add	0.43	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.07	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.64	
			For Work In Restricted Working Space, Add	1.28	
			For Installation Above 14', Add	0.64	
			For Factory Applied Color Coating, Add	0.11	
26 05 33 13-0577	LF		3/4" Electrical Metallic Tubing (EMT) Conduit.....	5.32	1.89
			For >250 To 500, Deduct	-0.03	
			For >500 To 1,000, Deduct	-0.28	
			For >1,000, Deduct	-0.41	
			For Installation In Metal Stud Wall, Add	0.47	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.19	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.71	
			For Work In Restricted Working Space, Add	1.42	
			For Installation Above 14', Add	0.71	
			For Factory Applied Color Coating, Add	0.17	
26 05 33 13-0578	LF		1" Electrical Metallic Tubing (EMT) Conduit.....	6.18	2.08
			For >250 To 500, Deduct	-0.05	
			For >500 To 1,000, Deduct	-0.33	
			For >1,000, Deduct	-0.49	
			For Installation In Metal Stud Wall, Add	0.52	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.31	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
			For Work In Restricted Working Space, Add	1.57	
			For Installation Above 14', Add	0.78	
			For Factory Applied Color Coating, Add	0.29	
26 05 33 13-0579	LF		1-1/4" Electrical Metallic Tubing (EMT) Conduit	7.39	2.35
			For >250 To 500, Deduct	-0.08	
			For >500 To 1,000, Deduct	-0.41	
			For >1,000, Deduct	-0.59	
			For Installation In Metal Stud Wall, Add	0.59	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.47	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.88	
			For Work In Restricted Working Space, Add	1.76	
			For Installation Above 14', Add	0.88	
			For Factory Applied Color Coating, Add	0.45	
26 05 33 13-0580	LF		1-1/2" Electrical Metallic Tubing (EMT) Conduit	8.52	2.66
			For >250 To 500, Deduct	-0.09	
			For >500 To 1,000, Deduct	-0.47	
			For >1,000, Deduct	-0.69	
			For Installation In Metal Stud Wall, Add	0.66	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.66	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.00	
			For Work In Restricted Working Space, Add	1.99	
			For Installation Above 14', Add	1.00	
			For Factory Applied Color Coating, Add	0.56	
26 05 33 13-0581	LF		2" Electrical Metallic Tubing (EMT) Conduit.....	9.82	3.04
			For >250 To 500, Deduct	-0.11	
			For >500 To 1,000, Deduct	-0.55	
			For >1,000, Deduct	-0.79	
			For Installation In Metal Stud Wall, Add	0.76	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.90	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
			For Work In Restricted Working Space, Add	2.28	
			For Installation Above 14', Add	1.14	
			For Factory Applied Color Coating, Add	0.67	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0582	LF		2-1/2" Electrical Metallic Tubing (EMT) Conduit.....	12.32	3.61
			For >250 To 500, Deduct	-0.17	
			For >500 To 1,000, Deduct	-0.70	
			For >1,000, Deduct	-1.01	
			For Installation In Metal Stud Wall, Add	0.90	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.25	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.35	
			For Work In Restricted Working Space, Add	2.70	
			For Installation Above 14', Add	1.35	
			For Factory Applied Color Coating, Add	0.99	
26 05 33 13-0583	LF		3" Electrical Metallic Tubing (EMT) Conduit.....	14.57	4.18
			For >250 To 500, Deduct	-0.21	
			For >500 To 1,000, Deduct	-0.83	
			For >1,000, Deduct	-1.20	
			For Installation In Metal Stud Wall, Add	1.04	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.61	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.56	
			For Work In Restricted Working Space, Add	3.13	
			For Installation Above 14', Add	1.56	
			For Factory Applied Color Coating, Add	1.24	
26 05 33 13-0584	LF		3-1/2" Electrical Metallic Tubing (EMT) Conduit.....	17.87	4.93
			For >250 To 500, Deduct	-0.28	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.48	
			For Installation In Metal Stud Wall, Add	1.23	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.09	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.85	
			For Work In Restricted Working Space, Add	3.70	
			For Installation Above 14', Add	1.85	
			For Factory Applied Color Coating, Add	1.66	
26 05 33 13-0585	LF		4" Electrical Metallic Tubing (EMT) Conduit.....	23.43	7.11
			For >250 To 500, Deduct	-0.28	
			For >500 To 1,000, Deduct	-1.31	
			For >1,000, Deduct	-1.90	
			For Installation In Metal Stud Wall, Add	1.78	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.44	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.66	
			For Work In Restricted Working Space, Add	5.33	
			For Installation Above 14', Add	2.66	
			For Factory Applied Color Coating, Add	1.70	
26 05 33 13-0586			Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0574)		
			See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0587			Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0574)		
26 05 33 13-0588	EA		1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	4.91	2.27
			For Work In Restricted Working Space, Add	1.42	
			For Installation Above 14', Add	0.71	
26 05 33 13-0589	EA		3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	5.98	2.27
			For Work In Restricted Working Space, Add	1.71	
			For Installation Above 14', Add	0.85	
26 05 33 13-0590	EA		1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.13	2.66
			For Work In Restricted Working Space, Add	1.99	
			For Installation Above 14', Add	0.99	
26 05 33 13-0591	EA		1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.42	3.42
			For Work In Restricted Working Space, Add	2.56	
			For Installation Above 14', Add	1.28	
26 05 33 13-0592	EA		1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	11.71	4.18
			For Work In Restricted Working Space, Add	3.13	
			For Installation Above 14', Add	1.57	
26 05 33 13-0593	EA		2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	15.90	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Installation Above 14', Add	2.13	
26 05 33 13-0594	EA		2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	22.59	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Installation Above 14', Add	2.85	
26 05 33 13-0595	EA		3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	28.13	8.73
			For Work In Restricted Working Space, Add	7.12	
			For Installation Above 14', Add	3.56	
26 05 33 13-0596	EA		3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	33.82	9.49
			For Work In Restricted Working Space, Add	8.54	
			For Installation Above 14', Add	4.27	
26 05 33 13-0597	EA		4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	89.66	25.76
			For Work In Restricted Working Space, Add	25.01	
			For Installation Above 14', Add	12.51	
26 05 33 13-0598			Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0574)		
26 05 33 13-0599	EA		1/2 Electrical Metallic Tubing (EMT) Compression Coupling	6.50	2.49
			For Work In Restricted Working Space, Add	1.87	
			For Installation Above 14', Add	0.93	
26 05 33 13-0600	EA		3/4" Electrical Metallic Tubing (EMT) Compression Coupling	7.05	2.66
			For Work In Restricted Working Space, Add	1.99	
			For Installation Above 14', Add	1.00	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0601	EA	1" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	10.18 2.85 1.42	3.80
26 05 33 13-0602	EA	1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	12.61 3.41 1.71	4.55
26 05 33 13-0603	EA	1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	15.03 3.98 1.99	5.31
26 05 33 13-0604	EA	2" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	18.63 4.84 2.42	6.45
26 05 33 13-0605	EA	2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	30.83 7.16 3.58	9.55
26 05 33 13-0606	EA	3" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	35.14 7.97 3.98	10.62
26 05 33 13-0607	EA	3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	44.42 9.96 4.98	13.28
26 05 33 13-0608	EA	4" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i>	54.91 12.81 6.40	17.08
26 05 33 13-0609 Electrical Metallic Tubing (EMT) Box Connectors With Set Screw (26 05 33 13-0574)				
26 05 33 13-0610	EA	1/2" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.93 1.42 0.71 1.42	1.89
26 05 33 13-0611	EA	3/4" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.02 1.71 0.85 1.71	2.27
26 05 33 13-0612	EA	1" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.12 1.99 1.00 1.99	2.66
26 05 33 13-0613	EA	1-1/4" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.29 2.85 1.42 2.85	3.80
26 05 33 13-0614	EA	1-1/2" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.76 3.41 1.71 3.41	4.55
26 05 33 13-0615	EA	2" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.02 4.27 2.13 4.27	5.69
26 05 33 13-0616	EA	2-1/2" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.31 5.69 2.85 5.69	7.59
26 05 33 13-0617	EA	3" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.88 7.12 3.56 7.12	9.49
26 05 33 13-0618	EA	3-1/2" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.59 8.54 4.27 8.54	11.38
26 05 33 13-0619	EA	4" Electrical Metallic Tubing (EMT) Box Connector With Set Screw..... <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.29 9.96 4.98 9.96	13.28
26 05 33 13-0620 Electrical Metallic Tubing (EMT) Insulated Box Connectors With Set Screw (26 05 33 13-0574)				
26 05 33 13-0621	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.98 1.91 0.95 1.91	2.57
26 05 33 13-0622	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.92 2.08 1.04 2.08	2.76
26 05 33 13-0623	EA	1" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Installation Above 14', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.12 2.54 1.27 2.54	3.42

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0624	EA		1-1/4" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	13.74	4.36
			For Work In Restricted Working Space, Add	3.24	
			For Installation Above 14', Add	1.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.24	
26 05 33 13-0625	EA		1-1/2" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	16.93	5.03
			For Work In Restricted Working Space, Add	3.79	
			For Installation Above 14', Add	1.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-0626	EA		2" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	21.42	6.07
			For Work In Restricted Working Space, Add	4.55	
			For Installation Above 14', Add	2.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-0627	EA		2-1/2" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	48.69	8.44
			For Work In Restricted Working Space, Add	6.32	
			For Installation Above 14', Add	3.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0628	EA		3" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	60.74	11.19
			For Work In Restricted Working Space, Add	8.42	
			For Installation Above 14', Add	4.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.42	
26 05 33 13-0629	EA		3-1/2" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	80.52	14.42
			For Work In Restricted Working Space, Add	10.84	
			For Installation Above 14', Add	5.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.84	
26 05 33 13-0630	EA		4" Electrical Metallic Tubing (EMT) Insulated Box Connector With Set Screw	96.00	18.97
			For Work In Restricted Working Space, Add	14.23	
			For Installation Above 14', Add	7.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0631 Electrical Metallic Tubing (EMT) Box Compression Connectors (26 05 33 13-0574)					
26 05 33 13-0632	EA		1/2" Electrical Metallic Tubing (EMT) Box Compression Connector	6.82	2.27
			For Work In Restricted Working Space, Add	1.71	
			For Installation Above 14', Add	0.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.71	
26 05 33 13-0633	EA		3/4" Electrical Metallic Tubing (EMT) Box Compression Connector	8.19	2.66
			For Work In Restricted Working Space, Add	1.99	
			For Installation Above 14', Add	1.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.99	
26 05 33 13-0634	EA		1" Electrical Metallic Tubing (EMT) Box Compression Connector	10.31	3.04
			For Work In Restricted Working Space, Add	2.28	
			For Installation Above 14', Add	1.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28	
26 05 33 13-0635	EA		1-1/4" Electrical Metallic Tubing (EMT) Box Compression Connector	16.66	4.55
			For Work In Restricted Working Space, Add	3.41	
			For Installation Above 14', Add	1.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.41	
26 05 33 13-0636	EA		1-1/2" Electrical Metallic Tubing (EMT) Box Compression Connector	21.03	5.31
			For Work In Restricted Working Space, Add	3.98	
			For Installation Above 14', Add	1.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.98	
26 05 33 13-0637	EA		2" Electrical Metallic Tubing (EMT) Box Compression Connector	28.59	6.83
			For Work In Restricted Working Space, Add	5.12	
			For Installation Above 14', Add	2.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-0638	EA		2-1/2" Electrical Metallic Tubing (EMT) Box Compression Connector	62.13	9.11
			For Work In Restricted Working Space, Add	6.83	
			For Installation Above 14', Add	3.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.83	
26 05 33 13-0639	EA		3" Electrical Metallic Tubing (EMT) Box Compression Connector	81.21	11.38
			For Work In Restricted Working Space, Add	8.54	
			For Installation Above 14', Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0640	EA		3-1/2" Electrical Metallic Tubing (EMT) Box Compression Connector	109.40	13.28
			For Work In Restricted Working Space, Add	9.96	
			For Installation Above 14', Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-0641	EA		4" Electrical Metallic Tubing (EMT) Box Compression Connector	116.65	15.18
			For Work In Restricted Working Space, Add	11.38	
			For Installation Above 14', Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0642 Electrical Metallic Tubing (EMT) Insulated Box Compression Connectors (26 05 33 13-0574)					
26 05 33 13-0643	EA		1/2" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector	7.61	2.57
			For Work In Restricted Working Space, Add	1.91	
			For Installation Above 14', Add	0.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.91	
26 05 33 13-0644	EA		3/4" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector	8.68	2.76
			For Work In Restricted Working Space, Add	2.08	
			For Installation Above 14', Add	1.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	



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		Common Work Results For Electrical	26 05
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0645	EA	1" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	11.46	3.42
		For Work In Restricted Working Space, Add	2.54	
		For Installation Above 14', Add	1.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.54	
26 05 33 13-0646	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	16.84	4.36
		For Work In Restricted Working Space, Add	3.24	
		For Installation Above 14', Add	1.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.24	
26 05 33 13-0647	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	21.37	5.03
		For Work In Restricted Working Space, Add	3.79	
		For Installation Above 14', Add	1.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.79	
26 05 33 13-0648	EA	2" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	27.91	6.07
		For Work In Restricted Working Space, Add	4.55	
		For Installation Above 14', Add	2.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-0649	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	70.46	8.44
		For Work In Restricted Working Space, Add	6.32	
		For Installation Above 14', Add	3.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0650	EA	3" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	91.72	11.19
		For Work In Restricted Working Space, Add	8.42	
		For Installation Above 14', Add	4.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.42	
26 05 33 13-0651	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	124.06	14.42
		For Work In Restricted Working Space, Add	10.84	
		For Installation Above 14', Add	5.42	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.84	
26 05 33 13-0652	EA	4" Electrical Metallic Tubing (EMT) Insulated Box Compression Connector.....	142.05	18.97
		For Work In Restricted Working Space, Add	14.23	
		For Installation Above 14', Add	7.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0653 Electrical Metallic Tubing (EMT) Expansion Fittings (26 05 33 13-0574)				
Note: Excludes jumper.				
26 05 33 13-0654	EA	1/2" Electrical Metallic Tubing (EMT) Expansion Fitting.....	56.69	12.62
		For Work In Restricted Working Space, Add	9.47	
		For Installation Above 14', Add	4.74	
26 05 33 13-0655	EA	3/4" Electrical Metallic Tubing (EMT) Expansion Fitting.....	68.24	15.27
		For Work In Restricted Working Space, Add	11.48	
		For Installation Above 14', Add	5.74	
26 05 33 13-0656	EA	1" Electrical Metallic Tubing (EMT) Expansion Fitting.....	85.74	19.16
		For Work In Restricted Working Space, Add	14.35	
		For Installation Above 14', Add	7.18	
26 05 33 13-0657	EA	1-1/4" Electrical Metallic Tubing (EMT) Expansion Fitting	105.56	23.53
		For Work In Restricted Working Space, Add	17.65	
		For Installation Above 14', Add	8.83	
26 05 33 13-0658	EA	1-1/2" Electrical Metallic Tubing (EMT) Expansion Fitting	132.47	27.61
		For Work In Restricted Working Space, Add	20.70	
		For Installation Above 14', Add	10.35	
26 05 33 13-0659	EA	2" Electrical Metallic Tubing (EMT) Expansion Fitting.....	178.34	33.58
		For Work In Restricted Working Space, Add	25.21	
		For Installation Above 14', Add	12.60	
26 05 33 13-0660	EA	2-1/2" Electrical Metallic Tubing (EMT) Expansion Fitting	256.89	43.16
		For Work In Restricted Working Space, Add	32.38	
		For Installation Above 14', Add	16.19	
26 05 33 13-0661	EA	3" Electrical Metallic Tubing (EMT) Expansion Fitting.....	308.66	50.46
		For Work In Restricted Working Space, Add	37.86	
		For Installation Above 14', Add	18.93	
26 05 33 13-0662	EA	3-1/2" Electrical Metallic Tubing (EMT) Expansion Fitting	388.79	55.01
		For Work In Restricted Working Space, Add	41.27	
		For Installation Above 14', Add	20.64	
26 05 33 13-0663	EA	4" Electrical Metallic Tubing (EMT) Expansion Fitting.....	469.14	60.70
		For Work In Restricted Working Space, Add	45.55	
		For Installation Above 14', Add	22.77	
26 05 33 13-0664 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters				
(26 05 33 13-0574)				
26 05 33 13-0665	EA	1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	9.93	3.42
		For Work In Restricted Working Space, Add	2.53	
		For Installation Above 14', Add	1.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.53	
26 05 33 13-0666	EA	1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	11.16	3.42
		For Work In Restricted Working Space, Add	2.53	
		For Installation Above 14', Add	1.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.53	
26 05 33 13-0667	EA	3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	12.89	3.70
		For Work In Restricted Working Space, Add	2.81	
		For Installation Above 14', Add	1.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.81	
26 05 33 13-0668	EA	1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	19.91	4.27
		For Work In Restricted Working Space, Add	3.20	
		For Installation Above 14', Add	1.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.20	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0669 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	24.12	5.12
For Work In Restricted Working Space, Add	3.86	
For Installation Above 14', Add	1.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.86	
26 05 33 13-0670 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	27.46	5.88
For Work In Restricted Working Space, Add	4.42	
For Installation Above 14', Add	2.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.42	
26 05 33 13-0671 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	36.91	7.40
For Work In Restricted Working Space, Add	5.52	
For Installation Above 14', Add	2.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
 26 05 33 13-0672 Intermediate Metal Conduit (IMC) (26 05 33 13-0041)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
 26 05 33 13-0673 Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0672)		
Note: Includes field bending conduit up to 1".		
26 05 33 13-0674 LF 1/2" Intermediate Metal Conduit (IMC) Conduit	5.55	1.89
For >250 To 500, Deduct	-0.04	
For >500 To 1,000, Deduct	-0.06	
For >1,000, Deduct	-0.08	
For Installation In Metal Stud Wall, Add	0.47	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.19	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.71	
For Work In Restricted Working Space, Add	1.42	
For Installation Above 14', Add	0.71	
26 05 33 13-0675 LF 3/4" Intermediate Metal Conduit (IMC) Conduit	6.19	2.08
For >250 To 500, Deduct	-0.05	
For >500 To 1,000, Deduct	-0.07	
For >1,000, Deduct	-0.10	
For Installation In Metal Stud Wall, Add	0.52	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
For Work In Restricted Working Space, Add	1.57	
For Installation Above 14', Add	0.78	
26 05 33 13-0676 LF 1" Intermediate Metal Conduit (IMC) Conduit	7.18	2.27
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.11	
For >1,000, Deduct	-0.15	
For Installation In Metal Stud Wall, Add	0.57	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.42	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.85	
For Work In Restricted Working Space, Add	1.71	
For Installation Above 14', Add	0.85	
26 05 33 13-0677 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	8.53	4.55
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.14	
For >1,000, Deduct	-0.19	
For Installation In Metal Stud Wall, Add	0.66	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.66	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.00	
For Work In Restricted Working Space, Add	1.99	
For Installation Above 14', Add	1.00	
26 05 33 13-0678 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	9.82	3.04
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.17	
For >1,000, Deduct	-0.22	
For Installation In Metal Stud Wall, Add	0.76	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.90	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
For Work In Restricted Working Space, Add	2.28	
For Installation Above 14', Add	1.14	
26 05 33 13-0679 LF 2" Intermediate Metal Conduit (IMC) Conduit	11.57	3.42
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.23	
For >1,000, Deduct	-0.30	
For Installation In Metal Stud Wall, Add	0.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.28	
For Work In Restricted Working Space, Add	2.56	
For Installation Above 14', Add	1.28	
26 05 33 13-0680 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	18.09	4.55
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.50	
For >1,000, Deduct	-0.67	
For Installation In Metal Stud Wall, Add	1.14	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.85	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.71	
For Work In Restricted Working Space, Add	3.41	
For Installation Above 14', Add	1.71	



		Electrical	26
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0681	LF		3" Intermediate Metal Conduit (IMC) Conduit	22.48	5.69
			For >250 To 500, Deduct	-0.41	
			For >500 To 1,000, Deduct	-0.62	
			For >1,000, Deduct	-0.83	
			For Installation In Metal Stud Wall, Add	1.42	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.56	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.13	
			For Work In Restricted Working Space, Add	4.27	
			For Installation Above 14', Add	2.13	
26 05 33 13-0682	LF		3-1/2" Intermediate Metal Conduit (IMC) Conduit	26.64	6.83
			For >250 To 500, Deduct	-0.48	
			For >500 To 1,000, Deduct	-0.72	
			For >1,000, Deduct	-0.96	
			For Installation In Metal Stud Wall, Add	1.71	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.27	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.56	
			For Work In Restricted Working Space, Add	5.12	
			For Installation Above 14', Add	2.56	
26 05 33 13-0683	LF		4" Intermediate Metal Conduit (IMC) Conduit	31.17	7.97
			For >250 To 500, Deduct	-0.56	
			For >500 To 1,000, Deduct	-0.84	
			For >1,000, Deduct	-1.13	
			For Installation In Metal Stud Wall, Add	1.99	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.98	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.99	
			For Work In Restricted Working Space, Add	5.98	
			For Installation Above 14', Add	2.99	
26 05 33 13-0684			Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0672)		
			See CSI section 26 05 33 13-2183 for conduit field bending.		
26 05 33 13-0685	EA		1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	42.58	14.32
			For Work In Restricted Working Space, Add	10.71	
			For Installation Above 14', Add	5.36	
26 05 33 13-0686	EA		1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	51.10	16.60
			For Work In Restricted Working Space, Add	12.44	
			For Installation Above 14', Add	6.22	
26 05 33 13-0687	EA		1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	59.77	19.07
			For Work In Restricted Working Space, Add	14.28	
			For Installation Above 14', Add	7.14	
26 05 33 13-0688	EA		2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	69.88	20.96
			For Work In Restricted Working Space, Add	15.71	
			For Installation Above 14', Add	7.85	
26 05 33 13-0689	EA		2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	95.20	26.18
			For Work In Restricted Working Space, Add	19.63	
			For Installation Above 14', Add	9.82	
26 05 33 13-0690	EA		3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	134.71	35.66
			For Work In Restricted Working Space, Add	26.75	
			For Installation Above 14', Add	13.37	
26 05 33 13-0691	EA		3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	180.99	40.22
			For Work In Restricted Working Space, Add	30.17	
			For Installation Above 14', Add	15.08	
26 05 33 13-0692	EA		4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	224.18	52.36
			For Work In Restricted Working Space, Add	39.26	
			For Installation Above 14', Add	19.63	
26 05 33 13-0693			Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0672)		
26 05 33 13-0694	EA		1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	12.64	4.93
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0695	EA		3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	14.74	0.57
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0696	EA		1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	18.88	7.20
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0697	EA		1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	22.94	8.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	
26 05 33 13-0698	EA		1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	25.32	9.49
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-0699	EA		2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	32.06	11.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.82	
26 05 33 13-0700	EA		2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	55.73	18.97
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0701	EA		3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	71.88	25.80
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.35	
26 05 33 13-0702	EA		3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	90.18	30.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.05	
26 05 33 13-0703	EA		4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	105.65	35.66
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.75	
26 05 33 13-0704			Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0672)		
			Note: 3-Piece coupling.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0705 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	40.30	15.18
For Work In Restricted Working Space, Add	11.40	
For Installation Above 14', Add	5.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.40	
26 05 33 13-0706 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	45.37	16.97
For Work In Restricted Working Space, Add	12.72	
For Installation Above 14', Add	6.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.72	
26 05 33 13-0707 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	52.96	18.88
For Work In Restricted Working Space, Add	14.17	
For Installation Above 14', Add	7.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.17	
26 05 33 13-0708 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	62.24	20.68
For Work In Restricted Working Space, Add	15.51	
For Installation Above 14', Add	7.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.51	
26 05 33 13-0709 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	69.78	22.58
For Work In Restricted Working Space, Add	16.96	
For Installation Above 14', Add	8.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.96	
26 05 33 13-0710 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	87.71	24.47
For Work In Restricted Working Space, Add	18.37	
For Installation Above 14', Add	9.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.37	
26 05 33 13-0711 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	132.52	30.35
For Work In Restricted Working Space, Add	22.77	
For Installation Above 14', Add	11.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-0712 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	181.21	37.94
For Work In Restricted Working Space, Add	28.46	
For Installation Above 14', Add	14.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-0713 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	252.60	45.53
For Work In Restricted Working Space, Add	34.16	
For Installation Above 14', Add	17.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16	
26 05 33 13-0714 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	287.53	49.32
For Work In Restricted Working Space, Add	36.99	
For Installation Above 14', Add	18.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 05 33 13-0715 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0672)		
26 05 33 13-0716 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	21.48	7.59
For Work In Restricted Working Space, Add	5.69	
For Installation Above 14', Add	2.85	
26 05 33 13-0717 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	23.84	8.35
For Work In Restricted Working Space, Add	6.26	
For Installation Above 14', Add	3.13	
26 05 33 13-0718 EA 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	27.26	9.49
For Work In Restricted Working Space, Add	7.12	
For Installation Above 14', Add	3.56	
26 05 33 13-0719 EA 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	30.28	10.24
For Work In Restricted Working Space, Add	7.68	
For Installation Above 14', Add	3.84	
26 05 33 13-0720 EA 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	34.97	11.38
For Work In Restricted Working Space, Add	8.54	
For Installation Above 14', Add	4.27	
26 05 33 13-0721 EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	40.93	12.53
For Work In Restricted Working Space, Add	9.39	
For Installation Above 14', Add	4.70	
26 05 33 13-0722 EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	53.37	15.18
For Work In Restricted Working Space, Add	11.38	
For Installation Above 14', Add	5.69	
26 05 33 13-0723 EA 3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	66.26	18.97
For Work In Restricted Working Space, Add	14.23	
For Installation Above 14', Add	7.11	
26 05 33 13-0724 EA 3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	79.57	22.77
For Work In Restricted Working Space, Add	17.08	
For Installation Above 14', Add	8.54	
26 05 33 13-0725 EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	88.56	24.66
For Work In Restricted Working Space, Add	18.50	
For Installation Above 14', Add	9.25	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0726	Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0672)			
26 05 33 13-0727	EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	20.03		7.59
	For Work In Restricted Working Space, Add	5.69		
	For Installation Above 14', Add	2.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69		
26 05 33 13-0728	EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	25.28		9.49
	For Work In Restricted Working Space, Add	7.11		
	For Installation Above 14', Add	3.56		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11		
26 05 33 13-0729	EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	30.78		11.38
	For Work In Restricted Working Space, Add	8.54		
	For Installation Above 14', Add	4.27		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54		
26 05 33 13-0730	EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	36.49		13.28
	For Work In Restricted Working Space, Add	9.96		
	For Installation Above 14', Add	4.98		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96		
26 05 33 13-0731	EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	42.17		15.18
	For Work In Restricted Working Space, Add	11.38		
	For Installation Above 14', Add	5.69		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38		
26 05 33 13-0732	EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	48.80		17.08
	For Work In Restricted Working Space, Add	12.80		
	For Installation Above 14', Add	6.40		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.80		
26 05 33 13-0733	EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	57.68		18.97
	For Work In Restricted Working Space, Add	14.23		
	For Installation Above 14', Add	7.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23		
26 05 33 13-0734	EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	65.97		20.87
	For Work In Restricted Working Space, Add	15.65		
	For Installation Above 14', Add	7.83		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65		
26 05 33 13-0735	EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	79.56		24.66
	For Work In Restricted Working Space, Add	18.50		
	For Installation Above 14', Add	9.25		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50		
26 05 33 13-0736	EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	88.98		26.56
	For Work In Restricted Working Space, Add	19.92		
	For Installation Above 14', Add	9.96		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.92		
26 05 33 13-0737	Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0672)			
26 05 33 13-0738	EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	83.25		15.18
	For Work In Restricted Working Space, Add	11.39		
	For Installation Above 14', Add	5.69		
26 05 33 13-0739	EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	92.52		17.08
	For Work In Restricted Working Space, Add	12.81		
	For Installation Above 14', Add	6.40		
26 05 33 13-0740	EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting	102.82		18.97
	For Work In Restricted Working Space, Add	14.23		
	For Installation Above 14', Add	7.12		
26 05 33 13-0741	EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	121.27		20.87
	For Work In Restricted Working Space, Add	15.65		
	For Installation Above 14', Add	7.83		
26 05 33 13-0742	EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	144.56		22.77
	For Work In Restricted Working Space, Add	17.08		
	For Installation Above 14', Add	8.54		
26 05 33 13-0743	EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting	182.50		24.66
	For Work In Restricted Working Space, Add	18.50		
	For Installation Above 14', Add	9.25		
26 05 33 13-0744	EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	265.71		30.35
	For Work In Restricted Working Space, Add	22.77		
	For Installation Above 14', Add	11.38		
26 05 33 13-0745	EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting	321.51		37.94
	For Work In Restricted Working Space, Add	28.46		
	For Installation Above 14', Add	14.23		
26 05 33 13-0746	EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	437.64		45.53
	For Work In Restricted Working Space, Add	34.15		
	For Installation Above 14', Add	17.07		
26 05 33 13-0747	EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting	501.36		49.32
	For Work In Restricted Working Space, Add	36.99		
	For Installation Above 14', Add	18.50		
26 05 33 13-0748	Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0672)			
26 05 33 13-0749	EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	64.86		23.72
	For Work In Restricted Working Space, Add	14.23		
	For Installation Above 14', Add	7.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0750 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.39 17.08 8.54 17.08	28.46
26 05 33 13-0751 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.71 19.92 9.96 19.92	33.20
26 05 33 13-0752 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.84 22.77 11.38 22.77	37.94
26 05 33 13-0753 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.49 25.61 12.81 25.61	42.69
26 05 33 13-0754 EA 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	157.18 28.46 14.23 28.46	47.43
26 05 33 13-0755 EA 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.67 34.15 17.07 34.15	56.92
26 05 33 13-0756 EA 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.10 39.84 19.92 39.84	66.40
26 05 33 13-0757 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	492.94 45.53 22.77 45.53	75.89
26 05 33 13-0758 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	565.60 51.22 25.61 51.22	85.38
26 05 33 13-0759 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0672)		
26 05 33 13-0760 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	11.96 3.41 1.71	4.55
26 05 33 13-0761 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	16.85 4.84 2.42	6.45
26 05 33 13-0762 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	21.93 6.26 3.13	8.35
26 05 33 13-0763 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	25.06 7.12 3.56	9.49
26 05 33 13-0764 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	30.14 8.53 4.27	11.38
26 05 33 13-0765 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	34.51 9.68 4.84	12.90
26 05 33 13-0766 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	40.99 10.81 5.40	14.42
26 05 33 13-0767 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	47.56 12.24 6.12	16.31
26 05 33 13-0768 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	53.64 13.38 6.69	17.84
26 05 33 13-0769 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling For Work In Restricted Working Space, Add For Installation Above 14', Add	56.54 14.23 7.11	18.97
26 05 33 13-0770 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0672)		
26 05 33 13-0771 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add	5.41 1.42 0.71	1.89
26 05 33 13-0772 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing For Work In Restricted Working Space, Add For Installation Above 14', Add	5.79 1.42 0.71	1.89

26 05 33 13-0773 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0041)

Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.



Electrical		26
Common Work Results For Electrical		26 05
Raceway And Boxes For Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0774			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0773) Note: Includes field bending for conduit up to 1".		
26 05 33 13-0775	LF		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	10.92	2.66
			For >250 To 500, Deduct	-0.38	
			For >500 To 1,000, Deduct	-0.65	
			For >1,000, Deduct	-0.93	
			For Installation Above 14', Add	1.00	
			For Work In Restricted Working Space, Add	1.99	
26 05 33 13-0776	LF		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	12.55	3.04
			For >250 To 500, Deduct	-0.44	
			For >500 To 1,000, Deduct	-0.75	
			For >1,000, Deduct	-1.07	
			For Installation Above 14', Add	1.14	
			For Work In Restricted Working Space, Add	2.28	
26 05 33 13-0777	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	15.91	3.80
			For >250 To 500, Deduct	-0.56	
			For >500 To 1,000, Deduct	-0.96	
			For >1,000, Deduct	-1.35	
			For Installation Above 14', Add	1.42	
			For Work In Restricted Working Space, Add	2.85	
26 05 33 13-0778	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	19.52	4.55
			For >250 To 500, Deduct	-0.69	
			For >500 To 1,000, Deduct	-1.18	
			For >1,000, Deduct	-1.67	
			For Installation Above 14', Add	1.71	
			For Work In Restricted Working Space, Add	3.41	
26 05 33 13-0779	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	24.13	5.69
			For >250 To 500, Deduct	-0.85	
			For >500 To 1,000, Deduct	-1.45	
			For >1,000, Deduct	-2.06	
			For Installation Above 14', Add	2.13	
			For Work In Restricted Working Space, Add	4.27	
26 05 33 13-0780	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	29.98	6.83
			For >250 To 500, Deduct	-1.07	
			For >500 To 1,000, Deduct	-1.82	
			For >1,000, Deduct	-2.57	
			For Installation Above 14', Add	2.56	
			For Work In Restricted Working Space, Add	5.12	
26 05 33 13-0781	LF		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	39.48	7.97
			For >250 To 500, Deduct	-1.48	
			For >500 To 1,000, Deduct	-2.46	
			For >1,000, Deduct	-3.45	
			For Installation Above 14', Add	2.99	
			For Work In Restricted Working Space, Add	5.98	
26 05 33 13-0782	LF		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	49.32	9.86
			For >250 To 500, Deduct	-1.85	
			For >500 To 1,000, Deduct	-3.08	
			For >1,000, Deduct	-4.32	
			For Installation Above 14', Add	3.70	
			For Work In Restricted Working Space, Add	7.40	
26 05 33 13-0783	LF		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	60.52	12.14
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.78	
			For >1,000, Deduct	-5.29	
			For Installation Above 14', Add	4.55	
			For Work In Restricted Working Space, Add	9.11	
26 05 33 13-0784	LF		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	71.60	14.42
			For >250 To 500, Deduct	-2.68	
			For >500 To 1,000, Deduct	-4.47	
			For >1,000, Deduct	-6.26	
			For Installation Above 14', Add	5.41	
			For Work In Restricted Working Space, Add	10.81	
26 05 33 13-0785	LF		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	105.71	17.08
			For >250 To 500, Deduct	-4.22	
			For >500 To 1,000, Deduct	-6.86	
			For >1,000, Deduct	-9.50	
			For Installation Above 14', Add	6.40	
			For Work In Restricted Working Space, Add	12.81	
26 05 33 13-0786	LF		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	143.29	22.77
			For >250 To 500, Deduct	-5.74	
			For >500 To 1,000, Deduct	-9.32	
			For >1,000, Deduct	-12.91	
			For Installation Above 14', Add	8.54	
			For Work In Restricted Working Space, Add	17.08	
26 05 33 13-0787			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings (26 05 33 13-0773)		
26 05 33 13-0788	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	11.92	3.70
			For Installation Above 14', Add	1.11	
			For Work In Restricted Working Space, Add	2.22	
26 05 33 13-0789	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	14.60	4.93
			For Installation Above 14', Add	1.48	
			For Work In Restricted Working Space, Add	2.96	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0790	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	18.49 1.85 3.70	6.16
26 05 33 13-0791	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	20.74 2.04 4.07	6.78
26 05 33 13-0792	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	24.56 2.40 4.81	8.02
26 05 33 13-0793	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	30.98 2.78 5.55	9.25
26 05 33 13-0794	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	53.08 3.33 6.66	11.10
26 05 33 13-0795	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	68.33 4.62 9.25	15.41
26 05 33 13-0796	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	83.87 5.36 10.73	17.88
26 05 33 13-0797	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	105.58 7.40 14.80	24.66
26 05 33 13-0798	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	251.14 10.17 20.35	33.91
26 05 33 13-0799	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling <i>For Installation Above 14', Add</i>	243.00 5.73 11.47	19.11
26 05 33 13-0800			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows (26 05 33 13-0773) Note: 90, 45, or 30 degree.		
26 05 33 13-0801	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	46.67 4.62 9.25	15.41
26 05 33 13-0802	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	54.68 5.73 11.47	19.11
26 05 33 13-0803	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	65.72 7.03 14.06	23.43
26 05 33 13-0804	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	77.44 8.14 16.28	27.13
26 05 33 13-0805	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	90.14 9.25 18.50	30.83
26 05 33 13-0806	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	107.57 10.17 20.35	33.91
26 05 33 13-0807	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	159.98 12.76 25.52	42.55
26 05 33 13-0808	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	235.60 17.39 34.78	57.96
26 05 33 13-0809	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	287.76 19.61 39.22	65.35
26 05 33 13-0810	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	336.18 25.53 51.05	85.08
26 05 33 13-0811	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	677.50 41.62 83.24	138.72
26 05 33 13-0812	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow <i>For Installation Above 14', Add</i>	1,059.83 62.52 125.04	208.40
26 05 33 13-0813			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows (26 05 33 13-0773)		
26 05 33 13-0814	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i>	103.06 7.03 14.06	23.43
26 05 33 13-0815	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i>	116.42 8.14 16.28	27.13
26 05 33 13-0816	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i>	132.82 9.25 18.50	30.83



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0817	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	156.82	10.17 20.35	33.91
26 05 33 13-0818	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	215.72	12.76 25.52	42.55
26 05 33 13-0819 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0820	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	113.16	7.03 14.06	23.43
26 05 33 13-0821	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	133.11	8.14 16.28	27.13
26 05 33 13-0822	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	144.79	9.25 18.50	30.83
26 05 33 13-0823	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	182.91	10.17 20.35	33.91
26 05 33 13-0824	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	240.87	12.76 25.52	42.55
26 05 33 13-0825	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	310.20	17.39 34.78	57.96
26 05 33 13-0826 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0827	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	125.23	7.03 14.06	23.43
26 05 33 13-0828	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	141.80	8.14 16.28	27.13
26 05 33 13-0829	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	160.14	9.25 18.50	30.83
26 05 33 13-0830	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	191.56	10.17 20.35	33.91
26 05 33 13-0831	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	269.78	12.76 25.52	42.55
26 05 33 13-0832	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	344.14	17.39 34.78	57.96
26 05 33 13-0833	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	429.88	19.61 39.22	65.35
26 05 33 13-0834	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	491.02	25.53 51.05	85.08
26 05 33 13-0835 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0836	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	146.09	7.03 14.06	23.43
26 05 33 13-0837	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	162.20	8.14 16.28	27.13
26 05 33 13-0838	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	183.30	9.25 18.50	30.83
26 05 33 13-0839	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	224.91	10.17 20.35	33.91
26 05 33 13-0840	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	321.51	12.76 25.52	42.55
26 05 33 13-0841	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	401.64	17.39 34.78	57.96
26 05 33 13-0842	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	464.99	19.61 39.22	65.35
26 05 33 13-0843	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	555.47	25.53 51.05	85.08

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0844 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0845	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	162.31	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-0846	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	181.18	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-0847	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	206.09	30.83
		For Installation Above 14', Add	9.25	
		For Work In Restricted Working Space, Add	18.50	
26 05 33 13-0848	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	253.94	33.91
		For Installation Above 14', Add	10.17	
		For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0849	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	349.74	42.55
		For Installation Above 14', Add	12.76	
		For Work In Restricted Working Space, Add	25.52	
26 05 33 13-0850	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	447.63	57.96
		For Installation Above 14', Add	17.39	
		For Work In Restricted Working Space, Add	34.78	
26 05 33 13-0851	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	550.35	65.35
		For Installation Above 14', Add	19.61	
		For Work In Restricted Working Space, Add	39.22	
26 05 33 13-0852	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	614.64	85.08
		For Installation Above 14', Add	25.53	
		For Work In Restricted Working Space, Add	51.05	
26 05 33 13-0853	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	1,022.89	138.72
		For Installation Above 14', Add	41.62	
		For Work In Restricted Working Space, Add	83.24	
26 05 33 13-0854 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0855	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	183.54	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-0856	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	204.13	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-0857	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	231.08	30.83
		For Installation Above 14', Add	9.25	
		For Work In Restricted Working Space, Add	18.50	
26 05 33 13-0858	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	286.14	33.91
		For Installation Above 14', Add	10.17	
		For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0859	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	396.78	42.55
		For Installation Above 14', Add	12.76	
		For Work In Restricted Working Space, Add	25.52	
26 05 33 13-0860	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	506.22	57.96
		For Installation Above 14', Add	17.39	
		For Work In Restricted Working Space, Add	34.78	
26 05 33 13-0861	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	593.12	65.35
		For Installation Above 14', Add	19.61	
		For Work In Restricted Working Space, Add	39.22	
26 05 33 13-0862	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	691.01	85.08
		For Installation Above 14', Add	25.53	
		For Work In Restricted Working Space, Add	51.05	
26 05 33 13-0863	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,076.42	138.72
		For Installation Above 14', Add	41.62	
		For Work In Restricted Working Space, Add	83.24	
26 05 33 13-0864	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,482.79	208.40
		For Installation Above 14', Add	62.52	
		For Work In Restricted Working Space, Add	125.04	
26 05 33 13-0865 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0866	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	213.08	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-0867	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	224.58	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-0868	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	264.52	30.83
		For Installation Above 14', Add	9.25	
		For Work In Restricted Working Space, Add	18.50	
26 05 33 13-0869	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	330.96	33.91
		For Installation Above 14', Add	10.17	
		For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0870	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	460.20	42.55
		For Installation Above 14', Add	12.76	
		For Work In Restricted Working Space, Add	25.52	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0871	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	585.22	17.39 34.78	57.96
26 05 33 13-0872	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	712.03	19.61 39.22	65.35
26 05 33 13-0873	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	839.60	25.53 51.05	85.08
26 05 33 13-0874	EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	1,251.02	41.62 83.24	138.72
26 05 33 13-0875	EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	1,562.94	62.52 125.04	208.40
26 05 33 13-0876 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0773)				
26 05 33 13-0877	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	220.20	7.03 14.06	23.43
26 05 33 13-0878	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	259.17	8.14 16.28	27.13
26 05 33 13-0879	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	293.45	9.25 18.50	30.83
26 05 33 13-0880	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	344.45	10.17 20.35	33.91
26 05 33 13-0881	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	476.04	12.76 25.52	42.55
26 05 33 13-0882	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	609.51	17.39 34.78	57.96
26 05 33 13-0883	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	776.79	19.61 39.22	65.35
26 05 33 13-0884	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	873.30	25.53 51.05	85.08
26 05 33 13-0885	EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	1,297.92	41.62 83.24	138.72
26 05 33 13-0886	EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Installation Above 14', Add For Work In Restricted Working Space, Add	1,603.66	62.52 125.04	208.40
26 05 33 13-0887 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fittings (26 05 33 13-0773)				
26 05 33 13-0888	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.10	4.62 9.25 9.25	15.41
26 05 33 13-0889	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.51	6.10 12.21 12.21	20.35
26 05 33 13-0890	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	136.57	7.03 14.06 14.06	23.43
26 05 33 13-0891	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	219.91	8.14 16.28 16.28	27.13
26 05 33 13-0892	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	243.16	9.25 18.50 18.50	30.83
26 05 33 13-0893	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	305.28	10.17 20.35 20.35	33.91
26 05 33 13-0894	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	812.47	12.76 25.52 25.52	42.55

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0895	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	972.52	57.96
			For Installation Above 14', Add	17.39	
			For Work In Restricted Working Space, Add	34.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.78	
26 05 33 13-0896	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,295.29	85.08
			For Installation Above 14', Add	25.53	
			For Work In Restricted Working Space, Add	51.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.05	
26 05 33 13-0897 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings (26 05 33 13-0773)					
26 05 33 13-0898	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	80.86	15.41
			For Installation Above 14', Add	4.62	
			For Work In Restricted Working Space, Add	9.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	
26 05 33 13-0899	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	99.85	20.35
			For Installation Above 14', Add	6.10	
			For Work In Restricted Working Space, Add	12.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 05 33 13-0900	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	136.57	23.43
			For Installation Above 14', Add	7.03	
			For Work In Restricted Working Space, Add	14.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.06	
26 05 33 13-0901	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	218.03	27.13
			For Installation Above 14', Add	8.14	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0902	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	235.56	30.83
			For Installation Above 14', Add	9.25	
			For Work In Restricted Working Space, Add	18.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 05 33 13-0903	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	305.37	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0904	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	780.07	42.55
			For Installation Above 14', Add	12.76	
			For Work In Restricted Working Space, Add	25.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	
26 05 33 13-0905	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	948.88	57.96
			For Installation Above 14', Add	17.39	
			For Work In Restricted Working Space, Add	34.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.78	
26 05 33 13-0906	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,295.24	85.08
			For Installation Above 14', Add	25.53	
			For Work In Restricted Working Space, Add	51.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.05	
26 05 33 13-0907 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings (26 05 33 13-0773)					
26 05 33 13-0908	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	73.69	15.41
			For Installation Above 14', Add	4.62	
			For Work In Restricted Working Space, Add	9.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	
26 05 33 13-0909	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	88.97	20.35
			For Installation Above 14', Add	6.10	
			For Work In Restricted Working Space, Add	12.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 05 33 13-0910	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	104.76	23.43
			For Installation Above 14', Add	7.03	
			For Work In Restricted Working Space, Add	14.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.06	
26 05 33 13-0911	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	146.44	27.13
			For Installation Above 14', Add	8.14	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0912	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	170.73	30.83
			For Installation Above 14', Add	9.25	
			For Work In Restricted Working Space, Add	18.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 05 33 13-0913	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	258.52	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0914	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting.....	689.85	42.55
			For Installation Above 14', Add	12.76	
			For Work In Restricted Working Space, Add	25.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	



			Electrical	26
			Common Work Results For Electrical	26 05
			Raceway And Boxes For Electrical Systems	26 05 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0915	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	780.35 17.39 34.78 34.78	57.96
26 05 33 13-0916	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,000.78 25.53 51.05 51.05	85.08
26 05 33 13-0917 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0773)				
26 05 33 13-0918	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.66 4.62 9.25 9.25	15.41
26 05 33 13-0919	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.25 6.10 12.21 12.21	20.35
26 05 33 13-0920	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	228.30 7.03 14.06 14.06	23.43
26 05 33 13-0921	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	263.56 8.14 16.28 16.28	27.13
26 05 33 13-0922	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	299.34 9.25 18.50 18.50	30.83
26 05 33 13-0923	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	391.37 10.17 20.35 20.35	33.91
26 05 33 13-0924	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,206.86 12.76 25.52 25.52	42.55
26 05 33 13-0925	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,412.36 17.39 34.78 34.78	57.96
26 05 33 13-0926	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,741.84 25.53 51.05 51.05	85.08
26 05 33 13-0927 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0773)				
26 05 33 13-0928	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.39 4.62 9.25 9.25	15.41
26 05 33 13-0929	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	194.27 6.10 12.21 12.21	20.35
26 05 33 13-0930	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	230.59 7.03 14.06 14.06	23.43
26 05 33 13-0931	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	267.33 8.14 16.28 16.28	27.13

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0932	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	309.67	30.83
			For Installation Above 14', Add	9.25	
			For Work In Restricted Working Space, Add	18.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 05 33 13-0933	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	482.22	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0934	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,343.93	42.55
			For Installation Above 14', Add	12.76	
			For Work In Restricted Working Space, Add	25.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	
26 05 33 13-0935	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,890.93	57.96
			For Installation Above 14', Add	17.39	
			For Work In Restricted Working Space, Add	34.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.78	
26 05 33 13-0936	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,984.10	85.08
			For Installation Above 14', Add	25.53	
			For Work In Restricted Working Space, Add	51.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.05	
26 05 33 13-0937 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0773)					
26 05 33 13-0938	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	107.63	15.41
			For Installation Above 14', Add	4.62	
			For Work In Restricted Working Space, Add	9.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	
26 05 33 13-0939	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	136.15	20.35
			For Installation Above 14', Add	6.10	
			For Work In Restricted Working Space, Add	12.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.21	
26 05 33 13-0940	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	162.75	23.43
			For Installation Above 14', Add	7.03	
			For Work In Restricted Working Space, Add	14.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.06	
26 05 33 13-0941	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	180.80	27.13
			For Installation Above 14', Add	8.14	
			For Work In Restricted Working Space, Add	16.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.28	
26 05 33 13-0942	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	241.25	30.83
			For Installation Above 14', Add	9.25	
			For Work In Restricted Working Space, Add	18.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 05 33 13-0943	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	337.22	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0944	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,093.32	42.55
			For Installation Above 14', Add	12.76	
			For Work In Restricted Working Space, Add	25.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	
26 05 33 13-0945	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,234.83	57.96
			For Installation Above 14', Add	17.39	
			For Work In Restricted Working Space, Add	34.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.78	
26 05 33 13-0946	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,473.79	85.08
			For Installation Above 14', Add	25.53	
			For Work In Restricted Working Space, Add	51.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.05	
26 05 33 13-0947 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0773)					
Note: Suitable for use in hazardous locations. Class I, Div 2.					
26 05 33 13-0948	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	103.55	29.59
			For Installation Above 14', Add	8.88	
			For Work In Restricted Working Space, Add	17.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.76	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0949	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	117.01	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0950	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	143.51	38.84
			For Installation Above 14', Add	11.65	
			For Work In Restricted Working Space, Add	23.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.31	
26 05 33 13-0951	EA		1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	185.56	45.01
			For Installation Above 14', Add	13.50	
			For Work In Restricted Working Space, Add	27.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.00	
26 05 33 13-0952	EA		1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	215.33	49.32
			For Installation Above 14', Add	14.80	
			For Work In Restricted Working Space, Add	29.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.60	
26 05 33 13-0953	EA		2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	290.40	59.19
			For Installation Above 14', Add	17.76	
			For Work In Restricted Working Space, Add	35.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.51	
26 05 33 13-0954	EA		2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	482.16	83.24
			For Installation Above 14', Add	24.97	
			For Work In Restricted Working Space, Add	49.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.94	
26 05 33 13-0955	EA		3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	619.09	110.99
			For Installation Above 14', Add	33.30	
			For Work In Restricted Working Space, Add	66.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.59	
26 05 33 13-0956	EA		3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	854.42	138.72
			For Installation Above 14', Add	41.62	
			For Work In Restricted Working Space, Add	83.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.24	
26 05 33 13-0957	EA		4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	984.61	168.94
			For Installation Above 14', Add	50.68	
			For Work In Restricted Working Space, Add	101.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.36	
26 05 33 13-0958			Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0773) Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0959	EA		1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	135.36	38.84
			For Installation Above 14', Add	11.65	
			For Work In Restricted Working Space, Add	23.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.30	
26 05 33 13-0960	EA		3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	153.86	43.16
			For Installation Above 14', Add	12.95	
			For Work In Restricted Working Space, Add	25.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.90	
26 05 33 13-0961	EA		1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	185.92	47.48
			For Installation Above 14', Add	14.24	
			For Work In Restricted Working Space, Add	28.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.48	
26 05 33 13-0962	EA		1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	246.36	54.26
			For Installation Above 14', Add	16.28	
			For Work In Restricted Working Space, Add	32.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.55	
26 05 33 13-0963	EA		1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	289.25	59.19
			For Installation Above 14', Add	17.76	
			For Work In Restricted Working Space, Add	35.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.51	
26 05 33 13-0964	EA		2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	390.94	72.76
			For Installation Above 14', Add	21.83	
			For Work In Restricted Working Space, Add	43.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.65	
26 05 33 13-0965			Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0773) Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0966	EA		1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	119.04	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0967	EA	3/4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.11 11.84 23.68 23.68	39.46
26 05 33 13-0968	EA	1"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.94 12.95 25.90 25.90	43.16
26 05 33 13-0969	EA	1-1/4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	206.51 14.80 29.60 29.60	49.32
26 05 33 13-0970	EA	1-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	243.22 16.28 32.56 32.56	54.26
26 05 33 13-0971	EA	2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	322.61 19.05 38.10 38.10	63.51
26 05 33 13-0972	EA	2-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	515.39 27.75 55.49 55.49	92.49
26 05 33 13-0973	EA	3"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	681.36 36.07 72.14 72.14	120.23
26 05 33 13-0974	EA	3-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	929.68 44.39 88.79 88.79	147.97
26 05 33 13-0975	EA	4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,043.90 53.46 106.92 106.92	178.19
26 05 33 13-0976 Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0773)					
26 05 33 13-0977	EA	1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	16.93 1.11 2.22	3.70
26 05 33 13-0978	EA	3/4"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	19.16 1.29 2.59	4.32
26 05 33 13-0979	EA	1"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	24.91 1.67 3.33	5.55
26 05 33 13-0980	EA	1-1/4"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	31.69 2.04 4.07	6.78
26 05 33 13-0981	EA	1-1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	35.90 2.40 4.81	8.02
26 05 33 13-0982	EA	2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	43.76 2.78 5.55	9.25
26 05 33 13-0983	EA	2-1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	55.11 3.14 6.29	10.48
26 05 33 13-0984	EA	3"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	63.74 4.44 8.88	14.80
26 05 33 13-0985	EA	3-1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	76.12 5.00 9.99	16.64
26 05 33 13-0986	EA	4"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	84.75 6.29 12.58	20.96
26 05 33 13-0987 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0773)					
26 05 33 13-0988	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.48 8.88 17.76 17.76	29.59



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		Common Work Results For Electrical	26 05
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0989	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.36 10.17 20.35 20.35	33.91
26 05 33 13-0990	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.60 11.65 23.31 23.31	38.84
26 05 33 13-0991	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.12 13.50 27.01 27.01	45.01
26 05 33 13-0992	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	217.71 14.80 29.60 29.60	49.32
26 05 33 13-0993	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	263.60 17.76 35.51 35.51	59.19
26 05 33 13-0994	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	380.72 24.97 49.94 49.94	83.24
26 05 33 13-0995	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	489.92 33.30 66.59 66.59	110.99
26 05 33 13-0996	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	945.89 41.62 83.24 83.24	138.72
26 05 33 13-0997	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body..... <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,371.13 50.68 101.36 101.36	168.94
26 05 33 13-0998			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0773)		
26 05 33 13-0999	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.75 8.88 17.76 17.76	29.59
26 05 33 13-1000	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	204.11 10.17 20.35 20.35	33.91
26 05 33 13-1001	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	233.13 11.65 23.31 23.31	38.84
26 05 33 13-1002	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	261.60 13.50 27.01 27.01	45.01
26 05 33 13-1003	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	314.96 14.80 29.60 29.60	49.32
26 05 33 13-1004	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	356.11 17.76 35.51 35.51	59.19
26 05 33 13-1005	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	501.01 24.97 49.94 49.94	83.24
26 05 33 13-1006	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	695.92 33.30 66.59 66.59	110.99
26 05 33 13-1007	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,005.71 41.62 83.24 83.24	138.72

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1008 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	1,449.41	168.94
For Installation Above 14', Add	50.68	
For Work In Restricted Working Space, Add	101.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.36	
26 05 33 13-1009 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0773)		
26 05 33 13-1010 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	153.48	29.59
For Installation Above 14', Add	8.88	
For Work In Restricted Working Space, Add	17.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.76	
26 05 33 13-1011 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	164.61	33.91
For Installation Above 14', Add	10.17	
For Work In Restricted Working Space, Add	20.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-1012 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	189.08	38.84
For Installation Above 14', Add	11.65	
For Work In Restricted Working Space, Add	23.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.31	
26 05 33 13-1013 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	211.64	45.01
For Installation Above 14', Add	13.50	
For Work In Restricted Working Space, Add	27.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.01	
26 05 33 13-1014 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	285.87	49.32
For Installation Above 14', Add	14.80	
For Work In Restricted Working Space, Add	29.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.60	
26 05 33 13-1015 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	357.87	59.19
For Installation Above 14', Add	17.76	
For Work In Restricted Working Space, Add	35.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.51	
26 05 33 13-1016 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	552.16	83.24
For Installation Above 14', Add	24.97	
For Work In Restricted Working Space, Add	49.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.94	
26 05 33 13-1017 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	799.99	110.99
For Installation Above 14', Add	33.30	
For Work In Restricted Working Space, Add	66.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.59	
26 05 33 13-1018 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,005.71	138.72
For Installation Above 14', Add	41.62	
For Work In Restricted Working Space, Add	83.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.24	
26 05 33 13-1019 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies (26 05 33 13-0773)		
26 05 33 13-1020 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	199.10	29.59
For Installation Above 14', Add	8.88	
For Work In Restricted Working Space, Add	17.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.76	
26 05 33 13-1021 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	221.38	33.91
For Installation Above 14', Add	10.17	
For Work In Restricted Working Space, Add	20.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-1022 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	273.09	38.84
For Installation Above 14', Add	11.65	
For Work In Restricted Working Space, Add	23.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.31	
26 05 33 13-1023 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	335.49	45.01
For Installation Above 14', Add	13.50	
For Work In Restricted Working Space, Add	27.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.01	
26 05 33 13-1024 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	460.85	49.32
For Installation Above 14', Add	14.80	
For Work In Restricted Working Space, Add	29.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.60	
26 05 33 13-1025 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	552.35	59.19
For Installation Above 14', Add	17.76	
For Work In Restricted Working Space, Add	35.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.51	
26 05 33 13-1026 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0773)		



Electrical		26
Common Work Results For Electrical		26 05
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1027 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	40.86	11.85
For Installation Above 14', Add	3.56	
For Work In Restricted Working Space, Add	7.12	
26 05 33 13-1028 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	53.58	14.23
For Installation Above 14', Add	4.27	
For Work In Restricted Working Space, Add	8.54	
26 05 33 13-1029 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	68.44	18.97
For Installation Above 14', Add	5.69	
For Work In Restricted Working Space, Add	11.38	
26 05 33 13-1030 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	93.20	23.72
For Installation Above 14', Add	7.11	
For Work In Restricted Working Space, Add	14.23	
26 05 33 13-1031 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	121.22	28.46
For Installation Above 14', Add	8.54	
For Work In Restricted Working Space, Add	17.08	
26 05 33 13-1032 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	202.36	33.20
For Installation Above 14', Add	9.96	
For Work In Restricted Working Space, Add	19.92	
26 05 33 13-1033 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	289.95	37.94
For Installation Above 14', Add	11.38	
For Work In Restricted Working Space, Add	22.77	
26 05 33 13-1034 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	359.88	42.69
For Installation Above 14', Add	12.81	
For Work In Restricted Working Space, Add	25.61	
26 05 33 13-1035 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	497.08	49.80
For Installation Above 14', Add	14.94	
For Work In Restricted Working Space, Add	29.88	
26 05 33 13-1036 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	602.12	56.92
For Installation Above 14', Add	17.07	
For Work In Restricted Working Space, Add	34.15	
26 05 33 13-1037 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	963.31	90.11
For Installation Above 14', Add	27.03	
For Work In Restricted Working Space, Add	54.07	
26 05 33 13-1038 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,322.56	137.54
For Installation Above 14', Add	41.26	
For Work In Restricted Working Space, Add	82.52	
26 05 33 13-1039 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0773)		
26 05 33 13-1040 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	145.43	29.59
For Installation Above 14', Add	8.88	
For Work In Restricted Working Space, Add	17.76	
26 05 33 13-1041 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	171.00	32.68
For Installation Above 14', Add	9.80	
For Work In Restricted Working Space, Add	19.61	
26 05 33 13-1042 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	189.81	38.84
For Installation Above 14', Add	11.65	
For Work In Restricted Working Space, Add	23.31	
26 05 33 13-1043 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	268.44	45.01
For Installation Above 14', Add	13.50	
For Work In Restricted Working Space, Add	27.01	
26 05 33 13-1044 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	350.07	49.32
For Installation Above 14', Add	14.80	
For Work In Restricted Working Space, Add	29.60	
26 05 33 13-1045 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	380.24	59.19
For Installation Above 14', Add	17.76	
For Work In Restricted Working Space, Add	35.51	
26 05 33 13-1046 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	874.96	82.01
For Installation Above 14', Add	24.60	
For Work In Restricted Working Space, Add	49.20	
26 05 33 13-1047 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	933.09	110.99
For Installation Above 14', Add	33.30	
For Work In Restricted Working Space, Add	66.59	
26 05 33 13-1048 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,509.23	138.72
For Installation Above 14', Add	41.62	
For Work In Restricted Working Space, Add	83.24	
26 05 33 13-1049 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,581.61	168.94
For Installation Above 14', Add	50.69	
For Work In Restricted Working Space, Add	101.37	
26 05 33 13-1050 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0773)		
26 05 33 13-1051 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	206.81	29.59
For Installation Above 14', Add	8.88	
For Work In Restricted Working Space, Add	17.76	
26 05 33 13-1052 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	235.67	33.91
For Installation Above 14', Add	10.17	
For Work In Restricted Working Space, Add	20.35	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1053	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	453.85	38.84
		For Installation Above 14', Add	11.65	
		For Work In Restricted Working Space, Add	23.31	
26 05 33 13-1054	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	477.80	45.01
		For Installation Above 14', Add	13.50	
		For Work In Restricted Working Space, Add	27.01	
26 05 33 13-1055	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	648.30	49.32
		For Installation Above 14', Add	14.80	
		For Work In Restricted Working Space, Add	29.60	
26 05 33 13-1056	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	694.10	59.19
		For Installation Above 14', Add	17.76	
		For Work In Restricted Working Space, Add	35.51	
26 05 33 13-1057	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,322.50	83.24
		For Installation Above 14', Add	24.97	
		For Work In Restricted Working Space, Add	49.94	
26 05 33 13-1058	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,400.84	110.99
		For Installation Above 14', Add	33.30	
		For Work In Restricted Working Space, Add	66.59	
26 05 33 13-1059	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,042.79	138.72
		For Installation Above 14', Add	41.62	
		For Work In Restricted Working Space, Add	83.24	
26 05 33 13-1060	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,317.80	168.94
		For Installation Above 14', Add	50.68	
		For Work In Restricted Working Space, Add	101.36	
26 05 33 13-1061 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0773)				
26 05 33 13-1062	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	80.94	15.41
		For Installation Above 14', Add	4.62	
		For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1063	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	94.65	19.11
		For Installation Above 14', Add	5.73	
		For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1064	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	113.01	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1065	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	133.20	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1066 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0773)				
26 05 33 13-1067	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	64.95	15.41
		For Installation Above 14', Add	4.62	
		For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1068	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	75.46	19.11
		For Installation Above 14', Add	5.73	
		For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1069	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	103.66	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1070	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	133.27	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1071	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	161.58	30.83
		For Installation Above 14', Add	9.25	
		For Work In Restricted Working Space, Add	18.50	
26 05 33 13-1072	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	228.48	33.91
		For Installation Above 14', Add	10.17	
		For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1073	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	310.83	42.55
		For Installation Above 14', Add	12.76	
		For Work In Restricted Working Space, Add	25.52	



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Common Work Results For Electrical		26 05
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1074		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0773)		
26 05 33 13-1075	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	80.97	15.41
		For Installation Above 14', Add	4.62	
		For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1076	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	96.86	19.11
		For Installation Above 14', Add	5.73	
		For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1077	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	113.03	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1078	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow	133.24	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1079		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0773)		
26 05 33 13-1080	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	65.00	15.41
		For Installation Above 14', Add	4.62	
		For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1081	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	75.46	19.11
		For Installation Above 14', Add	5.73	
		For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1082	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	97.04	23.43
		For Installation Above 14', Add	7.03	
		For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1083	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	120.41	27.13
		For Installation Above 14', Add	8.14	
		For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1084	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	140.64	30.83
		For Installation Above 14', Add	9.25	
		For Work In Restricted Working Space, Add	18.50	
26 05 33 13-1085	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	161.39	33.91
		For Installation Above 14', Add	10.17	
		For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1086	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	293.72	42.55
		For Installation Above 14', Add	12.76	
		For Work In Restricted Working Space, Add	25.52	
26 05 33 13-1087	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	340.06	57.96
		For Installation Above 14', Add	17.39	
		For Work In Restricted Working Space, Add	34.78	
26 05 33 13-1088	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	367.94	65.35
		For Installation Above 14', Add	19.61	
		For Work In Restricted Working Space, Add	39.22	
26 05 33 13-1089	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow	455.59	85.08
		For Installation Above 14', Add	25.53	
		For Work In Restricted Working Space, Add	51.05	
26 05 33 13-1090		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0773)		
26 05 33 13-1091	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	135.07	29.59
		For Installation Above 14', Add	8.88	
		For Work In Restricted Working Space, Add	17.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.76	
26 05 33 13-1092	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	146.69	33.91
		For Installation Above 14', Add	10.17	
		For Work In Restricted Working Space, Add	20.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-1093	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	161.22	38.84
		For Installation Above 14', Add	11.65	
		For Work In Restricted Working Space, Add	23.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.31	
26 05 33 13-1094	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	213.87	45.01
		For Installation Above 14', Add	13.50	
		For Work In Restricted Working Space, Add	27.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.01	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1095	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.17 14.80 29.60 29.60	49.32
26 05 33 13-1096 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover (26 05 33 13-0773)					
26 05 33 13-1097	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	160.41 8.88 17.76	29.59
26 05 33 13-1098	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	173.58 10.17 20.35	33.91
26 05 33 13-1099	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	202.60 11.65 23.31	38.84
26 05 33 13-1100	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	285.69 13.50 27.01	45.01
26 05 33 13-1101	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	455.28 14.80 29.60	49.32
26 05 33 13-1102	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	494.12 17.76 35.51	59.19
26 05 33 13-1103 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0773)					
26 05 33 13-1104	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	174.79 8.88 17.76	29.59
26 05 33 13-1105	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	197.56 10.17 20.35	33.91
26 05 33 13-1106	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	216.29 11.65 23.31	38.84
26 05 33 13-1107	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	299.60 13.50 27.01	45.01
26 05 33 13-1108	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	488.44 14.80 29.60	49.32
26 05 33 13-1109	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	524.56 17.76 35.51	59.19
26 05 33 13-1110 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0773)					
26 05 33 13-1111	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	174.90 8.88 17.76	29.59
26 05 33 13-1112	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	193.32 10.17 20.35	33.91
26 05 33 13-1113	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	229.49 11.65 23.31	38.84
26 05 33 13-1114	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	310.19 13.50 27.01	45.01



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1115	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	504.25 14.80 29.60	49.32
26 05 33 13-1116	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	544.05 17.76 35.51	59.19
26 05 33 13-1117 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0773)					
26 05 33 13-1118	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	214.71 8.88 17.76	29.59
26 05 33 13-1119	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	237.57 10.17 20.35	33.91
26 05 33 13-1120	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	258.27 11.65 23.31	38.84
26 05 33 13-1121	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	631.91 13.50 27.01	45.01
26 05 33 13-1122 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0773)					
Note: Excludes cover.					
26 05 33 13-1123	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	108.57 8.88 17.76	29.59
26 05 33 13-1124	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	119.87 10.17 20.35	33.91
26 05 33 13-1125	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	134.20 11.65 23.31	38.84
26 05 33 13-1126	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	119.36 8.88 17.76	29.59
26 05 33 13-1127	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	129.31 10.17 20.35	33.91
26 05 33 13-1128	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	147.32 11.65 23.31	38.84
26 05 33 13-1129 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0773)					
Note: Excludes cover.					
26 05 33 13-1130	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	113.67 8.88 17.76	29.59
26 05 33 13-1131	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	125.61 10.17 20.35	33.91
26 05 33 13-1132	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	138.17 11.65 23.31	38.84
26 05 33 13-1133	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	126.66 8.88 17.76	29.59
26 05 33 13-1134	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	138.73 10.17 20.35	33.91
26 05 33 13-1135	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	157.01 11.65 23.31	38.84
26 05 33 13-1136 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0773)					
26 05 33 13-1137	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover <i>For Installation Above 14', Add</i> <i>For Work In Restricted Working Space, Add</i>	37.95 1.11 2.22	3.70

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1138	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	51.37	4.32
			<i>For Installation Above 14', Add</i>	1.29	
			<i>For Work In Restricted Working Space, Add</i>	2.59	
26 05 33 13-1139	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	48.57	4.32
			<i>For Installation Above 14', Add</i>	1.29	
			<i>For Work In Restricted Working Space, Add</i>	2.59	
26 05 33 13-1140	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	43.33	4.32
			<i>For Installation Above 14', Add</i>	1.29	
			<i>For Work In Restricted Working Space, Add</i>	2.59	
26 05 33 13-1141	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	206.26	6.16
			<i>For Installation Above 14', Add</i>	1.85	
			<i>For Work In Restricted Working Space, Add</i>	3.70	
26 05 33 13-1142	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	183.57	6.16
			<i>For Installation Above 14', Add</i>	1.85	
			<i>For Work In Restricted Working Space, Add</i>	3.70	
26 05 33 13-1143 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel					
(RGS) Mogul Conduit Bodies (26 05 33 13-0773)					
Note: Includes covers.					
26 05 33 13-1144	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	226.57	38.84
			<i>For Installation Above 14', Add</i>	11.65	
			<i>For Work In Restricted Working Space, Add</i>	23.31	
26 05 33 13-1145	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	254.96	45.01
			<i>For Installation Above 14', Add</i>	13.50	
			<i>For Work In Restricted Working Space, Add</i>	27.01	
26 05 33 13-1146	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	347.65	49.32
			<i>For Installation Above 14', Add</i>	14.80	
			<i>For Work In Restricted Working Space, Add</i>	29.60	
26 05 33 13-1147	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	414.40	59.19
			<i>For Installation Above 14', Add</i>	17.76	
			<i>For Work In Restricted Working Space, Add</i>	35.51	
26 05 33 13-1148	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	597.89	83.24
			<i>For Installation Above 14', Add</i>	24.97	
			<i>For Work In Restricted Working Space, Add</i>	49.94	
26 05 33 13-1149	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	756.45	110.99
			<i>For Installation Above 14', Add</i>	33.30	
			<i>For Work In Restricted Working Space, Add</i>	66.59	
26 05 33 13-1150	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,100.62	138.72
			<i>For Installation Above 14', Add</i>	41.62	
			<i>For Work In Restricted Working Space, Add</i>	83.24	
26 05 33 13-1151	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,364.56	168.94
			<i>For Installation Above 14', Add</i>	50.68	
			<i>For Work In Restricted Working Space, Add</i>	101.36	
26 05 33 13-1152	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	226.57	38.84
			<i>For Installation Above 14', Add</i>	11.65	
			<i>For Work In Restricted Working Space, Add</i>	23.31	
26 05 33 13-1153	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	254.96	45.01
			<i>For Installation Above 14', Add</i>	13.50	
			<i>For Work In Restricted Working Space, Add</i>	27.01	
26 05 33 13-1154	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	346.74	49.32
			<i>For Installation Above 14', Add</i>	14.80	
			<i>For Work In Restricted Working Space, Add</i>	29.60	
26 05 33 13-1155	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	405.16	59.19
			<i>For Installation Above 14', Add</i>	17.76	
			<i>For Work In Restricted Working Space, Add</i>	35.51	
26 05 33 13-1156	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	606.40	83.24
			<i>For Installation Above 14', Add</i>	24.97	
			<i>For Work In Restricted Working Space, Add</i>	49.94	
26 05 33 13-1157	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	794.61	110.99
			<i>For Installation Above 14', Add</i>	33.30	
			<i>For Work In Restricted Working Space, Add</i>	66.59	
26 05 33 13-1158	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,146.69	138.72
			<i>For Installation Above 14', Add</i>	41.62	
			<i>For Work In Restricted Working Space, Add</i>	83.24	
26 05 33 13-1159	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,393.25	168.94
			<i>For Installation Above 14', Add</i>	50.68	
			<i>For Work In Restricted Working Space, Add</i>	101.36	
26 05 33 13-1160	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	226.57	38.84
			<i>For Installation Above 14', Add</i>	11.65	
			<i>For Work In Restricted Working Space, Add</i>	23.31	
26 05 33 13-1161	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	254.96	45.01
			<i>For Installation Above 14', Add</i>	13.50	
			<i>For Work In Restricted Working Space, Add</i>	27.01	
26 05 33 13-1162	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	346.74	49.32
			<i>For Installation Above 14', Add</i>	14.80	
			<i>For Work In Restricted Working Space, Add</i>	29.60	
26 05 33 13-1163	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	405.16	59.19
			<i>For Installation Above 14', Add</i>	17.76	
			<i>For Work In Restricted Working Space, Add</i>	35.51	
26 05 33 13-1164	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	606.40	83.24
			<i>For Installation Above 14', Add</i>	24.97	
			<i>For Work In Restricted Working Space, Add</i>	49.94	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1165	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	794.61 33.30 66.59	110.99
26 05 33 13-1166	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	1,146.69 41.62 83.24	138.72
26 05 33 13-1167	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	1,393.25 50.68 101.36	168.94
26 05 33 13-1168	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	226.57 11.65 23.31	38.84
26 05 33 13-1169	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	254.96 13.50 27.01	45.01
26 05 33 13-1170	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	347.65 14.80 29.60	49.32
26 05 33 13-1171	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	410.13 17.76 35.51	59.19
26 05 33 13-1172	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	597.89 24.97 49.94	83.24
26 05 33 13-1173	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	756.45 33.30 66.59	110.99
26 05 33 13-1174	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	1,100.62 41.62 83.24	138.72
26 05 33 13-1175	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body For Installation Above 14', Add For Work In Restricted Working Space, Add	1,376.51 50.68 101.36	168.94
26 05 33 13-1176 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0773)					
26 05 33 13-1177	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	108.10 1.67 3.33	5.55
26 05 33 13-1178	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	109.34 1.85 3.70	6.16
26 05 33 13-1179	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	154.53 2.59 5.18	8.63
26 05 33 13-1180	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	156.99 2.96 5.92	9.86
26 05 33 13-1181	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	272.50 3.51 7.03	11.71
26 05 33 13-1182	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	278.66 4.44 8.88	14.80
26 05 33 13-1183	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	417.86 5.00 9.99	16.64
26 05 33 13-1184	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover For Installation Above 14', Add For Work In Restricted Working Space, Add	427.72 6.47 12.95	21.58
26 05 33 13-1185 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0773)					
26 05 33 13-1186	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add	188.09 4.62 9.25	15.41
26 05 33 13-1187	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add	222.52 5.73 11.47	19.11
26 05 33 13-1188	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add	263.66 7.03 14.06	23.43
26 05 33 13-1189	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add	324.24 8.14 16.28	27.13
26 05 33 13-1190	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting For Installation Above 14', Add For Work In Restricted Working Space, Add	431.66 9.25 18.50	30.83

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1191 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	594.75	33.91
For Installation Above 14', Add	10.17	
For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1192 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	847.45	42.55
For Installation Above 14', Add	12.76	
For Work In Restricted Working Space, Add	25.52	
26 05 33 13-1193 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,055.43	57.96
For Installation Above 14', Add	17.39	
For Work In Restricted Working Space, Add	34.78	
26 05 33 13-1194 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,475.56	65.35
For Installation Above 14', Add	19.61	
For Work In Restricted Working Space, Add	39.22	
26 05 33 13-1195 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,703.85	85.08
For Installation Above 14', Add	25.53	
For Work In Restricted Working Space, Add	51.05	
26 05 33 13-1196 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0773)		
26 05 33 13-1197 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	295.82	15.41
For Installation Above 14', Add	4.62	
For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1198 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	308.21	19.11
For Installation Above 14', Add	5.73	
For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1199 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	346.81	23.43
For Installation Above 14', Add	7.03	
For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1200 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	419.26	27.13
For Installation Above 14', Add	8.14	
For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1201 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	507.52	30.83
For Installation Above 14', Add	9.25	
For Work In Restricted Working Space, Add	18.50	
26 05 33 13-1202 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	646.97	33.91
For Installation Above 14', Add	10.17	
For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1203 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	952.66	42.55
For Installation Above 14', Add	12.76	
For Work In Restricted Working Space, Add	25.52	
26 05 33 13-1204 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,196.02	57.96
For Installation Above 14', Add	17.39	
For Work In Restricted Working Space, Add	34.78	
26 05 33 13-1205 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,520.94	65.35
For Installation Above 14', Add	19.61	
For Work In Restricted Working Space, Add	39.22	
26 05 33 13-1206 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,904.86	85.08
For Installation Above 14', Add	25.53	
For Work In Restricted Working Space, Add	51.05	
26 05 33 13-1207 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0773)		
26 05 33 13-1208 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	62.91	7.40
For Installation Above 14', Add	2.22	
For Work In Restricted Working Space, Add	4.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 05 33 13-1209 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	68.64	9.25
For Installation Above 14', Add	2.78	
For Work In Restricted Working Space, Add	5.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1210 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	75.84	11.10
For Installation Above 14', Add	3.33	
For Work In Restricted Working Space, Add	6.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.66	
26 05 33 13-1211 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	86.15	13.57
For Installation Above 14', Add	4.07	
For Work In Restricted Working Space, Add	8.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14	
26 05 33 13-1212 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	114.89	15.41
For Installation Above 14', Add	4.62	
For Work In Restricted Working Space, Add	9.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	



Electrical		26
Common Work Results For Electrical		26 05
Raceway And Boxes For Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1213 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.85 5.18 10.36 10.36	17.27
26 05 33 13-1214 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.10 6.47 12.95 12.95	21.58
26 05 33 13-1215 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	260.20 8.69 17.39 17.39	28.98
26 05 33 13-1216 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	330.72 9.80 19.61 19.61	32.68
26 05 33 13-1217 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	416.46 12.76 25.52 25.52	42.55
26 05 33 13-1218 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	523.49 20.72 41.43 41.43	69.05
26 05 33 13-1219 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	789.53 31.26 62.52 62.52	104.20
26 05 33 13-1220 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0773)		
26 05 33 13-1221 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.52 2.22 4.44 4.44	7.40
26 05 33 13-1222 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.47 2.78 5.55 5.55	9.25
26 05 33 13-1223 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.34 3.33 6.66 6.66	11.10
26 05 33 13-1224 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.88 4.07 8.14 8.14	13.57
26 05 33 13-1225 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.23 4.62 9.25 9.25	15.41
26 05 33 13-1226 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	149.51 5.18 10.36 10.36	17.27
26 05 33 13-1227 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.21 6.47 12.95 12.95	21.58
26 05 33 13-1228 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	271.89 8.69 17.39 17.39	28.98
26 05 33 13-1229 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	333.25 9.80 19.61 19.61	32.68
26 05 33 13-1230 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	432.76 12.76 25.52 25.52	42.55
26 05 33 13-1231 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	674.24 20.72 41.43 41.43	69.05
26 05 33 13-1232 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,100.18 31.26 62.52 62.52	104.20

26 05 33 13-1233 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0773)

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1234	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	100.32	7.40
			For Installation Above 14', Add	2.22	
			For Work In Restricted Working Space, Add	4.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.44	
26 05 33 13-1235	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	105.93	9.25
			For Installation Above 14', Add	2.78	
			For Work In Restricted Working Space, Add	5.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1236	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	114.09	11.10
			For Installation Above 14', Add	3.33	
			For Work In Restricted Working Space, Add	6.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.66	
26 05 33 13-1237	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	143.37	13.57
			For Installation Above 14', Add	4.07	
			For Work In Restricted Working Space, Add	8.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14	
26 05 33 13-1238	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	156.97	15.41
			For Installation Above 14', Add	4.62	
			For Work In Restricted Working Space, Add	9.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	
26 05 33 13-1239	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	166.58	17.27
			For Installation Above 14', Add	5.18	
			For Work In Restricted Working Space, Add	10.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36	
26 05 33 13-1240 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0773)					
26 05 33 13-1241	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	78.05	15.41
			For Installation Above 14', Add	4.62	
			For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1242	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	86.31	19.11
			For Installation Above 14', Add	5.73	
			For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1243	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	111.31	23.43
			For Installation Above 14', Add	7.03	
			For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1244	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	157.99	27.13
			For Installation Above 14', Add	8.14	
			For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1245	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	186.77	30.83
			For Installation Above 14', Add	9.25	
			For Work In Restricted Working Space, Add	18.50	
26 05 33 13-1246	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	234.55	33.91
			For Installation Above 14', Add	10.17	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1247	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	310.81	42.55
			For Installation Above 14', Add	12.76	
			For Work In Restricted Working Space, Add	25.52	
26 05 33 13-1248	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	396.28	42.55
			For Installation Above 14', Add	12.76	
			For Work In Restricted Working Space, Add	25.52	
26 05 33 13-1249	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	516.74	65.35
			For Installation Above 14', Add	19.61	
			For Work In Restricted Working Space, Add	39.22	
26 05 33 13-1250	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	665.84	85.08
			For Installation Above 14', Add	25.53	
			For Work In Restricted Working Space, Add	51.05	
26 05 33 13-1251	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,203.91	138.72
			For Installation Above 14', Add	41.62	
			For Work In Restricted Working Space, Add	83.24	
26 05 33 13-1252	EA	6"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,520.20	208.40
			For Installation Above 14', Add	62.52	
			For Work In Restricted Working Space, Add	125.04	
26 05 33 13-1253 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0773)					
26 05 33 13-1254	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	79.64	15.41
			For Installation Above 14', Add	4.62	
			For Work In Restricted Working Space, Add	9.25	
26 05 33 13-1255	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	92.38	19.11
			For Installation Above 14', Add	5.73	
			For Work In Restricted Working Space, Add	11.47	
26 05 33 13-1256	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	114.55	23.43
			For Installation Above 14', Add	7.03	
			For Work In Restricted Working Space, Add	14.06	
26 05 33 13-1257	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	163.93	27.13
			For Installation Above 14', Add	8.14	
			For Work In Restricted Working Space, Add	16.28	
26 05 33 13-1258	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	195.02	30.83
			For Installation Above 14', Add	9.25	
			For Work In Restricted Working Space, Add	18.50	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1259 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	252.37 10.17 20.35	33.91
26 05 33 13-1260 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	348.94 12.76 25.52	42.55
26 05 33 13-1261 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	435.05 12.76 25.52	42.55
26 05 33 13-1262 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	586.83 19.61 39.22	65.35
26 05 33 13-1263 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	735.67 25.53 51.05	85.08
26 05 33 13-1264 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	1,331.91 41.62 83.24	138.72
26 05 33 13-1265 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union..... For Installation Above 14', Add For Work In Restricted Working Space, Add	1,726.89 62.52 125.04	208.40
26 05 33 13-1266 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings (26 05 33 13-0773)		
26 05 33 13-1267 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	41.80 1.48 2.96	4.93
26 05 33 13-1268 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	46.20 1.85 3.70	6.16
26 05 33 13-1269 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	52.17 1.85 3.70	6.16
26 05 33 13-1270 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	64.10 2.04 4.07	6.78
26 05 33 13-1271 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	67.54 2.04 4.07	6.78
26 05 33 13-1272 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	58.97 2.40 4.81	8.02
26 05 33 13-1273 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	66.65 2.40 4.81	8.02
26 05 33 13-1274 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	101.21 2.40 4.81	8.02
26 05 33 13-1275 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	112.66 2.78 5.55	9.25
26 05 33 13-1276 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	109.68 2.78 5.55	9.25
26 05 33 13-1277 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	115.22 2.78 5.55	9.25
26 05 33 13-1278 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	129.16 2.78 5.55	9.25
26 05 33 13-1279 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	129.11 3.33 6.66	11.10
26 05 33 13-1280 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	165.18 4.62 9.25	15.41
26 05 33 13-1281 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	241.11 5.36 10.73	17.88
26 05 33 13-1282 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	322.92 7.40 14.80	24.66
26 05 33 13-1283 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling..... For Installation Above 14', Add For Work In Restricted Working Space, Add	405.15 10.17 20.35	33.91

26 05 33 13-1284 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0773)

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1285 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.19 2.22 4.44 4.44	7.40
26 05 33 13-1286 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.15 2.78 5.55 5.55	9.25
26 05 33 13-1287 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.83 3.51 7.03 7.03	11.71
26 05 33 13-1288 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.84 4.07 8.14 8.14	13.57
26 05 33 13-1289 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.12 4.62 9.25 9.25	15.41
26 05 33 13-1290 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.14 2.40 4.81 4.81	8.02
26 05 33 13-1291 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.98 2.78 5.55 5.55	9.25
26 05 33 13-1292 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.68 3.51 7.03 7.03	11.71
26 05 33 13-1293 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.80 4.07 8.14 8.14	13.57
26 05 33 13-1294 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23 4.62 9.25 9.25	15.41
26 05 33 13-1295 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.84 5.18 10.36 10.36	17.27
26 05 33 13-1296 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.27 2.40 4.81 4.81	8.02
26 05 33 13-1297 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.10 2.78 5.55 5.55	9.25
26 05 33 13-1298 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.91 3.51 7.03 7.03	11.71
26 05 33 13-1299 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05 4.07 8.14 8.14	13.57
26 05 33 13-1300 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.47 4.62 9.25 9.25	15.41
26 05 33 13-1301 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.49 5.18 10.36 10.36	17.27
26 05 33 13-1302 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01 2.40 4.81 4.81	8.02
26 05 33 13-1303 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.84 2.78 5.55 5.55	9.25
26 05 33 13-1304 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.78 3.51 7.03 7.03	11.71
26 05 33 13-1305 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Installation Above 14', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.11 4.07 8.14 8.14	13.57



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		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1306	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.64	15.41	
		For Installation Above 14', Add	4.62		
		For Work In Restricted Working Space, Add	9.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25		
26 05 33 13-1307	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	58.54	17.27	
		For Installation Above 14', Add	5.18		
		For Work In Restricted Working Space, Add	10.36		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36		
26 05 33 13-1308	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	80.05	20.96	
		For Installation Above 14', Add	6.29		
		For Work In Restricted Working Space, Add	12.58		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58		
26 05 33 13-1309	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	104.60	28.98	
		For Installation Above 14', Add	8.69		
		For Work In Restricted Working Space, Add	17.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39		
26 05 33 13-1310	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	33.13	8.02	
		For Installation Above 14', Add	2.40		
		For Work In Restricted Working Space, Add	4.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81		
26 05 33 13-1311	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.08	9.25	
		For Installation Above 14', Add	2.78		
		For Work In Restricted Working Space, Add	5.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55		
26 05 33 13-1312	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.04	11.71	
		For Installation Above 14', Add	3.51		
		For Work In Restricted Working Space, Add	7.03		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03		
26 05 33 13-1313	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.17	13.57	
		For Installation Above 14', Add	4.07		
		For Work In Restricted Working Space, Add	8.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14		
26 05 33 13-1314	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.82	15.41	
		For Installation Above 14', Add	4.62		
		For Work In Restricted Working Space, Add	9.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25		
26 05 33 13-1315	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.59	17.27	
		For Installation Above 14', Add	5.18		
		For Work In Restricted Working Space, Add	10.36		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36		
26 05 33 13-1316	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	81.87	20.96	
		For Installation Above 14', Add	6.29		
		For Work In Restricted Working Space, Add	12.58		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58		
26 05 33 13-1317	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	108.50	28.98	
		For Installation Above 14', Add	8.69		
		For Work In Restricted Working Space, Add	17.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39		
26 05 33 13-1318	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	128.39	32.68	
		For Installation Above 14', Add	9.80		
		For Work In Restricted Working Space, Add	19.61		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.61		
26 05 33 13-1319	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	152.53	42.55	
		For Installation Above 14', Add	12.76		
		For Work In Restricted Working Space, Add	25.52		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52		
26 05 33 13-1320	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	33.37	8.02	
		For Installation Above 14', Add	2.40		
		For Work In Restricted Working Space, Add	4.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81		
26 05 33 13-1321	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.34	9.25	
		For Installation Above 14', Add	2.78		
		For Work In Restricted Working Space, Add	5.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55		
26 05 33 13-1322	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.31	11.71	
		For Installation Above 14', Add	3.51		
		For Work In Restricted Working Space, Add	7.03		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03		
26 05 33 13-1323	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.67	13.57	
		For Installation Above 14', Add	4.07		
		For Work In Restricted Working Space, Add	8.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14		
26 05 33 13-1324	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.33	15.41	
		For Installation Above 14', Add	4.62		
		For Work In Restricted Working Space, Add	9.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25		
26 05 33 13-1325	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.71	17.27	
		For Installation Above 14', Add	5.18		
		For Work In Restricted Working Space, Add	10.36		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36		
26 05 33 13-1326	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	89.07	20.96	
		For Installation Above 14', Add	6.29		
		For Work In Restricted Working Space, Add	12.58		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1327 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....114.33		28.98
For Installation Above 14', Add	8.69	
For Work In Restricted Working Space, Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 05 33 13-1328 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....129.64		32.68
For Installation Above 14', Add	9.80	
For Work In Restricted Working Space, Add	19.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.61	
26 05 33 13-1329 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....155.86		42.55
For Installation Above 14', Add	12.76	
For Work In Restricted Working Space, Add	25.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	
26 05 33 13-1330 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....227.23		58.57
For Installation Above 14', Add	17.57	
For Work In Restricted Working Space, Add	35.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.14	
26 05 33 13-1331 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....33.83		8.02
For Installation Above 14', Add	2.40	
For Work In Restricted Working Space, Add	4.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81	
26 05 33 13-1332 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....36.79		9.25
For Installation Above 14', Add	2.78	
For Work In Restricted Working Space, Add	5.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1333 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....42.80		11.71
For Installation Above 14', Add	3.51	
For Work In Restricted Working Space, Add	7.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03	
26 05 33 13-1334 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....50.58		13.57
For Installation Above 14', Add	4.07	
For Work In Restricted Working Space, Add	8.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14	
26 05 33 13-1335 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....55.43		15.41
For Installation Above 14', Add	4.62	
For Work In Restricted Working Space, Add	9.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	
26 05 33 13-1336 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....62.82		17.27
For Installation Above 14', Add	5.18	
For Work In Restricted Working Space, Add	10.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36	
26 05 33 13-1337 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....96.39		20.96
For Installation Above 14', Add	6.29	
For Work In Restricted Working Space, Add	12.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58	
26 05 33 13-1338 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....122.09		28.98
For Installation Above 14', Add	8.69	
For Work In Restricted Working Space, Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 05 33 13-1339 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....136.62		32.68
For Installation Above 14', Add	9.80	
For Work In Restricted Working Space, Add	19.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.61	
26 05 33 13-1340 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....167.64		42.55
For Installation Above 14', Add	12.76	
For Work In Restricted Working Space, Add	25.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	
26 05 33 13-1341 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....244.85		58.57
For Installation Above 14', Add	17.57	
For Work In Restricted Working Space, Add	35.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.14	
26 05 33 13-1342 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....34.54		8.02
For Installation Above 14', Add	2.40	
For Work In Restricted Working Space, Add	4.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81	
26 05 33 13-1343 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....37.49		9.25
For Installation Above 14', Add	2.78	
For Work In Restricted Working Space, Add	5.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1344 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....43.90		11.71
For Installation Above 14', Add	3.51	
For Work In Restricted Working Space, Add	7.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03	
26 05 33 13-1345 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....50.82		13.57
For Installation Above 14', Add	4.07	
For Work In Restricted Working Space, Add	8.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14	
26 05 33 13-1346 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....57.66		15.41
For Installation Above 14', Add	4.62	
For Work In Restricted Working Space, Add	9.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25	
26 05 33 13-1347 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....68.27		17.27
For Installation Above 14', Add	5.18	
For Work In Restricted Working Space, Add	10.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1348	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	105.39	20.96	
		For Installation Above 14', Add	6.29		
		For Work In Restricted Working Space, Add	12.58		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58		
26 05 33 13-1349	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	132.70	28.98	
		For Installation Above 14', Add	8.69		
		For Work In Restricted Working Space, Add	17.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39		
26 05 33 13-1350	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	154.11	32.68	
		For Installation Above 14', Add	9.80		
		For Work In Restricted Working Space, Add	19.61		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.61		
26 05 33 13-1351	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	185.33	42.55	
		For Installation Above 14', Add	12.76		
		For Work In Restricted Working Space, Add	25.52		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52		
26 05 33 13-1352	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	256.93	58.57	
		For Installation Above 14', Add	17.57		
		For Work In Restricted Working Space, Add	35.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.14		
26 05 33 13-1353	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	35.29	8.02	
		For Installation Above 14', Add	2.40		
		For Work In Restricted Working Space, Add	4.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81		
26 05 33 13-1354	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	38.22	9.25	
		For Installation Above 14', Add	2.78		
		For Work In Restricted Working Space, Add	5.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55		
26 05 33 13-1355	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.98	11.71	
		For Installation Above 14', Add	3.51		
		For Work In Restricted Working Space, Add	7.03		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03		
26 05 33 13-1356	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.11	13.57	
		For Installation Above 14', Add	4.07		
		For Work In Restricted Working Space, Add	8.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14		
26 05 33 13-1357	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	62.96	15.41	
		For Installation Above 14', Add	4.62		
		For Work In Restricted Working Space, Add	9.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25		
26 05 33 13-1358	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	76.29	17.27	
		For Installation Above 14', Add	5.18		
		For Work In Restricted Working Space, Add	10.36		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36		
26 05 33 13-1359	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	114.91	20.96	
		For Installation Above 14', Add	6.29		
		For Work In Restricted Working Space, Add	12.58		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58		
26 05 33 13-1360	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	146.29	28.98	
		For Installation Above 14', Add	8.69		
		For Work In Restricted Working Space, Add	17.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39		
26 05 33 13-1361	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	172.48	32.68	
		For Installation Above 14', Add	9.80		
		For Work In Restricted Working Space, Add	19.61		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.61		
26 05 33 13-1362	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	216.29	42.55	
		For Installation Above 14', Add	12.76		
		For Work In Restricted Working Space, Add	25.52		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52		
26 05 33 13-1363	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	281.02	58.57	
		For Installation Above 14', Add	17.57		
		For Work In Restricted Working Space, Add	35.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.14		
26 05 33 13-1364	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	36.06	8.02	
		For Installation Above 14', Add	2.40		
		For Work In Restricted Working Space, Add	4.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81		
26 05 33 13-1365	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	39.08	9.25	
		For Installation Above 14', Add	2.78		
		For Work In Restricted Working Space, Add	5.55		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55		
26 05 33 13-1366	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.72	11.71	
		For Installation Above 14', Add	3.51		
		For Work In Restricted Working Space, Add	7.03		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.03		
26 05 33 13-1367	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.53	13.57	
		For Installation Above 14', Add	4.07		
		For Work In Restricted Working Space, Add	8.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14		
26 05 33 13-1368	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.38	15.41	
		For Installation Above 14', Add	4.62		
		For Work In Restricted Working Space, Add	9.25		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.25		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1369	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	82.72	17.27
		For Installation Above 14', Add	5.18	
		For Work In Restricted Working Space, Add	10.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36	
26 05 33 13-1370	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	127.60	20.96
		For Installation Above 14', Add	6.29	
		For Work In Restricted Working Space, Add	12.58	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.58	
26 05 33 13-1371	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	166.67	28.98
		For Installation Above 14', Add	8.69	
		For Work In Restricted Working Space, Add	17.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.39	
26 05 33 13-1372	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	183.75	32.68
		For Installation Above 14', Add	9.80	
		For Work In Restricted Working Space, Add	19.61	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.61	
26 05 33 13-1373	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	225.78	42.55
		For Installation Above 14', Add	12.76	
		For Work In Restricted Working Space, Add	25.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.52	
26 05 33 13-1374	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	284.46	58.57
		For Installation Above 14', Add	17.57	
		For Work In Restricted Working Space, Add	35.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.14	
26 05 33 13-1375		Aluminum Conduit (26 05 33 13-0041)		
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1376		Aluminum Conduit With Threaded Coupling (26 05 33 13-1375)		
		Note: Includes field bend conduit up to 1".		
26 05 33 13-1377	LF	1/2" Aluminum Conduit With Threaded Coupling	5.77	1.89
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.71	
		For Work In Restricted Working Space, Add	1.42	
26 05 33 13-1378	LF	3/4" Aluminum Conduit With Threaded Coupling	6.60	2.08
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
		For Work In Restricted Working Space, Add	1.57	
26 05 33 13-1379	LF	1" Aluminum Conduit With Threaded Coupling	7.65	2.27
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.85	
		For Work In Restricted Working Space, Add	1.71	
26 05 33 13-1380	LF	1-1/4" Aluminum Conduit With Threaded Coupling	8.73	2.47
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.92	
		For Work In Restricted Working Space, Add	1.85	
26 05 33 13-1381	LF	1-1/2" Aluminum Conduit With Threaded Coupling	9.83	2.66
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.00	
		For Work In Restricted Working Space, Add	1.99	
26 05 33 13-1382	LF	2" Aluminum Conduit With Threaded Coupling	11.86	3.04
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.14	
		For Work In Restricted Working Space, Add	2.28	
26 05 33 13-1383	LF	2-1/2" Aluminum Conduit With Threaded Coupling	16.23	3.80
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.42	
		For Work In Restricted Working Space, Add	2.85	
26 05 33 13-1384	LF	3" Aluminum Conduit With Threaded Coupling	20.24	4.55
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.71	
		For Work In Restricted Working Space, Add	3.41	
26 05 33 13-1385	LF	3-1/2" Aluminum Conduit With Threaded Coupling	24.86	5.69
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.13	
		For Work In Restricted Working Space, Add	4.27	
26 05 33 13-1386	LF	4" Aluminum Conduit With Threaded Coupling	30.62	7.20
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.70	
		For Work In Restricted Working Space, Add	5.41	
26 05 33 13-1387	LF	5" Aluminum Conduit With Threaded Coupling	40.79	9.11
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.42	
		For Work In Restricted Working Space, Add	6.83	
26 05 33 13-1388	LF	6" Aluminum Conduit With Threaded Coupling	52.18	11.38
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.27	
		For Work In Restricted Working Space, Add	8.54	
26 05 33 13-1389		Aluminum 90 Degree Elbows (26 05 33 13-1375)		
26 05 33 13-1390	EA	1" Aluminum 90 Degree Elbow	35.64	9.86
		For Work In Restricted Working Space, Add	7.40	
26 05 33 13-1391	EA	1-1/4" Aluminum 90 Degree Elbow	45.43	11.19
		For Work In Restricted Working Space, Add	8.40	
26 05 33 13-1392	EA	1-1/2" Aluminum 90 Degree Elbow	55.47	12.90
		For Work In Restricted Working Space, Add	9.68	
26 05 33 13-1393	EA	2" Aluminum 90 Degree Elbow	71.17	14.80
		For Work In Restricted Working Space, Add	11.10	
26 05 33 13-1394	EA	2-1/2" Aluminum 90 Degree Elbow	102.63	18.03
		For Work In Restricted Working Space, Add	13.52	
26 05 33 13-1395	EA	3" Aluminum 90 Degree Elbow	147.28	23.34
		For Work In Restricted Working Space, Add	17.50	
26 05 33 13-1396	EA	3-1/2" Aluminum 90 Degree Elbow	204.17	26.18
		For Work In Restricted Working Space, Add	19.64	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1397	EA	4" Aluminum 90 Degree Elbow	246.53	32.82
		For Work In Restricted Working Space, Add	24.62	
26 05 33 13-1398	EA	5" Aluminum 90 Degree Elbow	620.07	53.50
		For Work In Restricted Working Space, Add	40.12	
26 05 33 13-1399	EA	6" Aluminum 90 Degree Elbow	873.97	80.44
		For Work In Restricted Working Space, Add	60.33	
26 05 33 13-1400 Aluminum Bushing Set With Locknut (26 05 33 13-1375)				
26 05 33 13-1401	EA	1/2" Aluminum Bushing Set With Locknut.....	10.32	3.80
		For Work In Restricted Working Space, Add	2.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 33 13-1402	EA	3/4" Aluminum Bushing Set With Locknut.....	15.70	4.93
		For Work In Restricted Working Space, Add	3.70	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-1403	EA	1" Aluminum Bushing Set With Locknut.....	15.72	6.07
		For Work In Restricted Working Space, Add	4.55	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-1404	EA	1-1/4" Aluminum Bushing Set With Locknut	17.68	6.83
		For Work In Restricted Working Space, Add	5.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-1405	EA	1-1/2" Aluminum Bushing Set With Locknut	21.64	8.35
		For Work In Restricted Working Space, Add	6.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-1406	EA	2" Aluminum Bushing Set With Locknut.....	26.42	10.05
		For Work In Restricted Working Space, Add	7.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.54	
26 05 33 13-1407	EA	2-1/2" Aluminum Bushing Set With Locknut	32.48	11.95
		For Work In Restricted Working Space, Add	8.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.96	
26 05 33 13-1408	EA	3" Aluminum Bushing Set With Locknut.....	38.00	13.66
		For Work In Restricted Working Space, Add	10.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.25	
26 05 33 13-1409	EA	3-1/2" Aluminum Bushing Set With Locknut	41.10	14.80
		For Work In Restricted Working Space, Add	11.10	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.10	
26 05 33 13-1410	EA	4" Aluminum Bushing Set With Locknut.....	44.76	15.93
		For Work In Restricted Working Space, Add	11.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.95	
26 05 33 13-1411	EA	5" Aluminum Bushing Set With Locknut.....	59.28	21.24
		For Work In Restricted Working Space, Add	15.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.94	
26 05 33 13-1412	EA	6" Aluminum Bushing Set With Locknut.....	88.14	31.88
		For Work In Restricted Working Space, Add	23.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.90	
26 05 33 13-1413 Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0041)				
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.				
26 05 33 13-1414 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1413)				
Note: Includes field bend conduit up to 1".				
26 05 33 13-1415	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	3.75	1.43
		For Schedule 60, Add	0.22	
		For Schedule 80, Add	0.42	
26 05 33 13-1416	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	4.16	1.57
		For Schedule 60, Add	0.25	
		For Schedule 80, Add	0.47	
26 05 33 13-1417	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	4.92	1.84
		For Schedule 60, Add	0.31	
		For Schedule 80, Add	0.57	
26 05 33 13-1418	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	5.68	2.10
		For Schedule 60, Add	0.37	
		For Schedule 80, Add	0.68	
26 05 33 13-1419	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	6.65	2.45
		For Schedule 60, Add	0.44	
		For Schedule 80, Add	0.80	
26 05 33 13-1420	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	7.68	2.80
		For Schedule 60, Add	0.52	
		For Schedule 80, Add	0.94	
26 05 33 13-1421	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	9.40	3.32
		For Schedule 60, Add	0.69	
		For Schedule 80, Add	1.21	
26 05 33 13-1422	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	10.93	3.86
		For Schedule 60, Add	0.81	
		For Schedule 80, Add	1.42	
26 05 33 13-1423	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings	13.04	4.56
		For Schedule 60, Add	0.98	
		For Schedule 80, Add	1.72	
26 05 33 13-1424	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	15.83	5.60
		For Schedule 60, Add	1.16	
		For Schedule 80, Add	2.04	
26 05 33 13-1425	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings.....	22.34	7.88
		For Schedule 60, Add	1.65	
		For Schedule 80, Add	2.89	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1426 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings..... For Schedule 60, Add For Schedule 80, Add	29.75 2.19 3.85	10.50
26 05 33 13-1427 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1413) See CSI section 26 05 33 13-2193 for conduit field bending.		
26 05 33 13-1428 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	18.12 1.03 1.97	7.00
26 05 33 13-1429 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	19.96 1.14 2.17	7.70
26 05 33 13-1430 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	23.01 1.38 2.58	8.75
26 05 33 13-1431 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	29.65 1.81 3.38	11.21
26 05 33 13-1432 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	37.23 2.31 4.28	14.01
26 05 33 13-1433 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	46.73 2.93 5.41	17.50
26 05 33 13-1434 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	58.07 4.01 7.19	21.01
26 05 33 13-1435 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	70.61 5.40 9.39	24.51
26 05 33 13-1436 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	87.53 7.00 12.03	29.76
26 05 33 13-1437 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	104.44 8.60 14.67	35.01
26 05 33 13-1438 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	138.65 12.78 21.17	43.77
26 05 33 13-1439 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	168.61 15.89 26.19	52.52
26 05 33 13-1440 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1413) See CSI section 26 05 33 13-2193 for conduit field bending.		
26 05 33 13-1441 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	17.99 1.00 1.92	7.00
26 05 33 13-1442 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	19.92 1.13 2.16	7.70
26 05 33 13-1443 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	22.94 1.36 2.56	8.75
26 05 33 13-1444 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	29.45 1.76 3.31	11.21
26 05 33 13-1445 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	36.79 2.20 4.12	14.01
26 05 33 13-1446 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	46.49 2.87 5.33	17.50



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		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1447 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	57.62 3.90 7.04	21.01
26 05 33 13-1448 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	70.05 5.26 9.20	24.51
26 05 33 13-1449 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	85.96 6.61 11.48	29.76
26 05 33 13-1450 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	103.08 8.26 14.20	35.01
26 05 33 13-1451 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	136.89 12.34 20.55	43.77
26 05 33 13-1452 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2193 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	163.39 14.59 24.36	52.52
26 05 33 13-1453 Polyvinyl Chloride (PVC) Conduit Adapters (26 05 33 13-1413)		
26 05 33 13-1454 EA 1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.54 3.68	4.91
26 05 33 13-1455 EA 3/4" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.38 4.20	5.60
26 05 33 13-1456 EA 1" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.26 4.73	6.30
26 05 33 13-1457 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.20 5.25	7.00
26 05 33 13-1458 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.62 6.56	8.75
26 05 33 13-1459 EA 2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.26 7.88	10.50
26 05 33 13-1460 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.04 10.50	14.01
26 05 33 13-1461 EA 3" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.59 13.13	17.50
26 05 33 13-1462 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.51 17.07	22.76
26 05 33 13-1463 EA 4" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.73 21.01	28.01
26 05 33 13-1464 EA 5" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.82 26.26	35.01
26 05 33 13-1465 EA 6" Polyvinyl Chloride (PVC) Conduit Adapter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.18 32.83	43.77
26 05 33 13-1466 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1413)		
26 05 33 13-1467 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99 3.15	4.21
26 05 33 13-1468 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.88 3.68	4.91
26 05 33 13-1469 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.79 4.20	5.60
26 05 33 13-1470 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57 4.73	6.30
26 05 33 13-1471 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74 5.25	7.00
26 05 33 13-1472 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.58 6.04	8.05
26 05 33 13-1473 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.72 6.83	9.10
26 05 33 13-1474 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.71 7.88	10.50
26 05 33 13-1475 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.56 9.19	12.26
26 05 33 13-1476 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.94 10.50	14.01
26 05 33 13-1477 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23 11.82	15.75
26 05 33 13-1478 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.11 13.13	17.50
26 05 33 13-1479 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1413)		
26 05 33 13-1480 EA 1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70 4.04	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1481 EA 3/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapter.....	16.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.84	
26 05 33 13-1482 EA 1" Polyvinyl Chloride (PVC) Conduit Terminal Adapter.....	18.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.38	
26 05 33 13-1483 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapter.....	20.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.99	
26 05 33 13-1484 Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover (26 05 33 13-1413)		
26 05 33 13-1485 EA 1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	37.86	14.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-1486 EA 3/4" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	43.42	15.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.82	
26 05 33 13-1487 EA 1" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	48.19	17.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-1488 EA 1-1/4" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	58.84	21.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.76	
26 05 33 13-1489 EA 1-1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	73.01	26.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.70	
26 05 33 13-1490 EA 2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	91.83	31.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	
26 05 33 13-1491 EA 2-1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	137.76	35.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.26	
26 05 33 13-1492 EA 3" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	148.21	38.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.89	
26 05 33 13-1493 EA 3-1/2" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	163.00	43.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.83	
26 05 33 13-1494 EA 4" Type LB, LR Or LL, Two Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	183.87	50.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.08	
26 05 33 13-1495 Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover (26 05 33 13-1413)		
26 05 33 13-1496 EA 1/2" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	51.22	18.97
For Schedule 60, Add	3.32	
For Schedule 80, Add	6.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-1497 EA 3/4" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	56.87	20.87
For Schedule 60, Add	3.78	
For Schedule 80, Add	6.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-1498 EA 1" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	61.68	22.77
For Schedule 60, Add	4.04	
For Schedule 80, Add	7.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-1499 EA 1-1/4" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	75.08	26.56
For Schedule 60, Add	5.49	
For Schedule 80, Add	9.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.92	
26 05 33 13-1500 EA 1-1/2" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	90.83	32.26
For Schedule 60, Add	6.58	
For Schedule 80, Add	11.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.19	
26 05 33 13-1501 EA 2" Type T, Three Hub Polyvinyl Chloride (PVC) Conduit Body With Cover	109.63	37.94
For Schedule 60, Add	8.44	
For Schedule 80, Add	14.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-1502 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1413)		
26 05 33 13-1503 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	68.62	17.50
26 05 33 13-1504 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	77.95	21.01
26 05 33 13-1505 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	87.68	24.51
26 05 33 13-1506 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	97.01	28.01
26 05 33 13-1507 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	106.17	31.51
26 05 33 13-1508 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	116.38	35.01
26 05 33 13-1509 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	139.77	40.27
26 05 33 13-1510 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	164.64	45.51
26 05 33 13-1511 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	191.93	52.52
26 05 33 13-1512 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	227.02	61.28
26 05 33 13-1513 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	291.38	73.53
26 05 33 13-1514 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	381.04	94.54
26 05 33 13-1515 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1413)		
26 05 33 13-1516 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap	10.03	3.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.63	
26 05 33 13-1517 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap	11.90	4.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.15	
26 05 33 13-1518 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap	13.76	4.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.68	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1519 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.17 4.20	5.60
26 05 33 13-1520 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.59 4.73	6.30
26 05 33 13-1521 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.42 5.25	7.00
26 05 33 13-1522 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.68 6.04	8.05
26 05 33 13-1523 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.69 6.83	9.10
26 05 33 13-1524 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.03 7.62	10.15
26 05 33 13-1525 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.74 8.14	10.86
26 05 33 13-1526 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.23 9.19	12.26
26 05 33 13-1527 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.56 10.50	14.01
26 05 33 13-1528 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1413)		
26 05 33 13-1529 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.12 23.63	31.51
26 05 33 13-1530 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.46 15.76	21.01
26 05 33 13-1531 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	203.87 26.26	35.01
26 05 33 13-1532 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	380.22 38.08	50.77
26 05 33 13-1533 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0041)		
Note: Exposed installation. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1534 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1533)		
26 05 33 13-1535 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	5.21	1.43
26 05 33 13-1536 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	5.77	1.57
26 05 33 13-1537 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	6.53	1.82
26 05 33 13-1538 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	7.29	2.10
26 05 33 13-1539 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	8.33	2.45
26 05 33 13-1540 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	9.26	2.80
26 05 33 13-1541 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.02	3.32
26 05 33 13-1542 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.88	3.86
26 05 33 13-1543 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	15.04	4.56
26 05 33 13-1544 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	18.07	5.60
26 05 33 13-1545 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	24.78	7.88
26 05 33 13-1546 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	32.61	10.50
26 05 33 13-1547 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1533)		
26 05 33 13-1548 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	47.50	7.00
For 24" Radius, Add	3.13	
For 36" Radius, Add	4.75	
For 48" Radius, Add	6.38	
26 05 33 13-1549 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	52.85	7.70
For 24" Radius, Add	3.48	
For 36" Radius, Add	5.29	
For 48" Radius, Add	7.09	
26 05 33 13-1550 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	55.81	8.75
For 24" Radius, Add	3.64	
For 36" Radius, Add	5.58	
For 48" Radius, Add	7.52	
26 05 33 13-1551 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	62.27	11.21
For 24" Radius, Add	3.97	
For 36" Radius, Add	6.23	
For 48" Radius, Add	8.48	
26 05 33 13-1552 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	69.61	14.01
For 24" Radius, Add	4.35	
For 36" Radius, Add	6.96	
For 48" Radius, Add	9.58	
26 05 33 13-1553 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	83.14	17.50
For 24" Radius, Add	5.14	
For 36" Radius, Add	8.31	
For 48" Radius, Add	11.49	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1554	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	99.64	21.01
			For 24" Radius, Add	6.16	
			For 36" Radius, Add	9.96	
			For 48" Radius, Add	13.77	
26 05 33 13-1555	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	117.83	24.51
			For 24" Radius, Add	7.31	
			For 36" Radius, Add	11.78	
			For 48" Radius, Add	16.26	
26 05 33 13-1556	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	138.03	29.76
			For 24" Radius, Add	8.49	
			For 36" Radius, Add	13.80	
			For 48" Radius, Add	19.11	
26 05 33 13-1557	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	158.21	35.01
			For 24" Radius, Add	9.68	
			For 36" Radius, Add	15.82	
			For 48" Radius, Add	21.96	
26 05 33 13-1558	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	197.79	43.77
			For 24" Radius, Add	12.10	
			For 36" Radius, Add	19.78	
			For 48" Radius, Add	27.46	
26 05 33 13-1559	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	241.75	52.52
			For 24" Radius, Add	14.85	
			For 36" Radius, Add	24.18	
			For 48" Radius, Add	33.50	
26 05 33 13-1560 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1533)					
26 05 33 13-1561	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	42.10	7.00
			For 24" Radius, Add	2.72	
			For 36" Radius, Add	4.21	
			For 48" Radius, Add	5.70	
26 05 33 13-1562	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	46.80	7.70
			For 24" Radius, Add	3.03	
			For 36" Radius, Add	4.68	
			For 48" Radius, Add	6.33	
26 05 33 13-1563	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	49.70	8.75
			For 24" Radius, Add	3.18	
			For 36" Radius, Add	4.97	
			For 48" Radius, Add	6.76	
26 05 33 13-1564	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	56.10	11.21
			For 24" Radius, Add	3.51	
			For 36" Radius, Add	5.61	
			For 48" Radius, Add	7.71	
26 05 33 13-1565	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	63.38	14.01
			For 24" Radius, Add	3.88	
			For 36" Radius, Add	6.34	
			For 48" Radius, Add	8.80	
26 05 33 13-1566	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	76.05	17.50
			For 24" Radius, Add	4.61	
			For 36" Radius, Add	7.61	
			For 48" Radius, Add	10.60	
26 05 33 13-1567	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	91.16	21.01
			For 24" Radius, Add	5.52	
			For 36" Radius, Add	9.12	
			For 48" Radius, Add	12.71	
26 05 33 13-1568	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	107.65	24.51
			For 24" Radius, Add	6.54	
			For 36" Radius, Add	10.77	
			For 48" Radius, Add	14.99	
26 05 33 13-1569	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	126.58	29.76
			For 24" Radius, Add	7.63	
			For 36" Radius, Add	12.66	
			For 48" Radius, Add	17.68	
26 05 33 13-1570	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	145.49	35.01
			For 24" Radius, Add	8.72	
			For 36" Radius, Add	14.55	
			For 48" Radius, Add	20.37	
26 05 33 13-1571	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	181.88	43.77
			For 24" Radius, Add	10.91	
			For 36" Radius, Add	18.19	
			For 48" Radius, Add	25.47	
26 05 33 13-1572	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	221.87	52.52
			For 24" Radius, Add	13.36	
			For 36" Radius, Add	22.19	
			For 48" Radius, Add	31.02	



Electrical		26
Common Work Results For Electrical		26 05
Raceway And Boxes For Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1573			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1533)		
26 05 33 13-1574	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	38.85	6.30
			For 24" Radius, Add	2.52	
			For 36" Radius, Add	3.89	
			For 48" Radius, Add	5.25	
26 05 33 13-1575	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	43.19	6.93
			For 24" Radius, Add	2.81	
			For 36" Radius, Add	4.32	
			For 48" Radius, Add	5.83	
26 05 33 13-1576	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	45.83	7.88
			For 24" Radius, Add	2.94	
			For 36" Radius, Add	4.58	
			For 48" Radius, Add	6.22	
26 05 33 13-1577	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	51.59	10.08
			For 24" Radius, Add	3.24	
			For 36" Radius, Add	5.16	
			For 48" Radius, Add	7.08	
26 05 33 13-1578	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	58.15	12.61
			For 24" Radius, Add	3.57	
			For 36" Radius, Add	5.82	
			For 48" Radius, Add	8.06	
26 05 33 13-1579	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	69.72	15.75
			For 24" Radius, Add	4.24	
			For 36" Radius, Add	6.97	
			For 48" Radius, Add	9.70	
26 05 33 13-1580	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	83.55	18.91
			For 24" Radius, Add	5.08	
			For 36" Radius, Add	8.36	
			For 48" Radius, Add	11.63	
26 05 33 13-1581	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	98.69	22.06
			For 24" Radius, Add	6.02	
			For 36" Radius, Add	9.87	
			For 48" Radius, Add	13.72	
26 05 33 13-1582	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	115.94	26.79
			For 24" Radius, Add	7.02	
			For 36" Radius, Add	11.59	
			For 48" Radius, Add	16.17	
26 05 33 13-1583	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	133.21	31.51
			For 24" Radius, Add	8.02	
			For 36" Radius, Add	13.32	
			For 48" Radius, Add	18.62	
26 05 33 13-1584	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	166.51	39.40
			For 24" Radius, Add	10.03	
			For 36" Radius, Add	16.65	
			For 48" Radius, Add	23.28	
26 05 33 13-1585	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	203.22	47.27
			For 24" Radius, Add	12.29	
			For 36" Radius, Add	20.32	
			For 48" Radius, Add	28.36	
26 05 33 13-1586			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1533)		
26 05 33 13-1587	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	37.35	6.30
			For 24" Radius, Add	2.41	
			For 36" Radius, Add	3.74	
			For 48" Radius, Add	5.06	
26 05 33 13-1588	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	41.51	6.93
			For 24" Radius, Add	2.68	
			For 36" Radius, Add	4.15	
			For 48" Radius, Add	5.62	
26 05 33 13-1589	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	44.13	7.88
			For 24" Radius, Add	2.82	
			For 36" Radius, Add	4.41	
			For 48" Radius, Add	6.01	
26 05 33 13-1590	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	49.88	10.08
			For 24" Radius, Add	3.11	
			For 36" Radius, Add	4.99	
			For 48" Radius, Add	6.87	
26 05 33 13-1591	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	56.42	12.61
			For 24" Radius, Add	3.44	
			For 36" Radius, Add	5.64	
			For 48" Radius, Add	7.84	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1592	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	67.75	15.75
			For 24" Radius, Add	4.10	
			For 36" Radius, Add	6.78	
			For 48" Radius, Add	9.45	
26 05 33 13-1593	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	81.20	18.91
			For 24" Radius, Add	4.91	
			For 36" Radius, Add	8.12	
			For 48" Radius, Add	11.33	
26 05 33 13-1594	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	95.86	22.06
			For 24" Radius, Add	5.81	
			For 36" Radius, Add	9.59	
			For 48" Radius, Add	13.36	
26 05 33 13-1595	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	112.76	26.79
			For 24" Radius, Add	6.78	
			For 36" Radius, Add	11.28	
			For 48" Radius, Add	15.77	
26 05 33 13-1596	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	129.67	31.51
			For 24" Radius, Add	7.76	
			For 36" Radius, Add	12.97	
			For 48" Radius, Add	18.18	
26 05 33 13-1597	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	162.10	39.40
			For 24" Radius, Add	9.70	
			For 36" Radius, Add	16.21	
			For 48" Radius, Add	22.72	
26 05 33 13-1598	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	197.70	47.27
			For 24" Radius, Add	11.87	
			For 36" Radius, Add	19.77	
			For 48" Radius, Add	27.67	
26 05 33 13-1599			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1533)		
26 05 33 13-1600	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	24.68	4.91
26 05 33 13-1601	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	27.85	5.60
26 05 33 13-1602	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	29.73	6.30
26 05 33 13-1603	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	31.60	7.00
26 05 33 13-1604	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	36.26	8.75
26 05 33 13-1605	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	43.39	10.50
26 05 33 13-1606	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	55.63	14.01
26 05 33 13-1607	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	68.51	17.50
26 05 33 13-1608	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	84.73	22.76
26 05 33 13-1609	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	100.96	28.01
26 05 33 13-1610	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	126.18	35.01
26 05 33 13-1611	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	157.73	43.77
26 05 33 13-1612			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1533)		
26 05 33 13-1613	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	19.27	4.91
26 05 33 13-1614	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	21.80	5.60
26 05 33 13-1615	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	23.62	6.30
26 05 33 13-1616	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	25.45	7.00
26 05 33 13-1617	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	29.91	8.75
26 05 33 13-1618	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	34.34	10.50
26 05 33 13-1619	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	44.71	14.01
26 05 33 13-1620	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	55.41	17.50
26 05 33 13-1621	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	69.99	22.76
26 05 33 13-1622	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	84.58	28.01
26 05 33 13-1623	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	105.73	35.01
26 05 33 13-1624	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	132.17	43.77
26 05 33 13-1625			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1533)		
26 05 33 13-1626	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	20.97	4.03
26 05 33 13-1627	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	23.69	5.60
26 05 33 13-1628	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	25.54	6.30
26 05 33 13-1629	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	27.35	7.00
26 05 33 13-1630	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	31.95	8.75
26 05 33 13-1631	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	38.25	10.50
26 05 33 13-1632	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	49.39	14.01
26 05 33 13-1633	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	61.03	17.50
26 05 33 13-1634	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	76.31	22.76
26 05 33 13-1635	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	91.60	28.01
26 05 33 13-1636	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	114.48	35.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1637 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	143.13	43.77
26 05 33 13-1638 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1533)		
26 05 33 13-1639 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	53.37	17.50
26 05 33 13-1640 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	63.17	21.01
26 05 33 13-1641 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	72.05	24.51
26 05 33 13-1642 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	80.87	28.01
26 05 33 13-1643 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	89.87	31.51
26 05 33 13-1644 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	100.72	35.01
26 05 33 13-1645 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	116.49	40.27
26 05 33 13-1646 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	132.80	45.51
26 05 33 13-1647 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	152.69	52.52
26 05 33 13-1648 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	176.94	61.28
26 05 33 13-1649 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	204.76	70.03
26 05 33 13-1650 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	234.07	78.78
26 05 33 13-1651 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1533)		
26 05 33 13-1652 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	57.27	17.50
26 05 33 13-1653 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	67.54	21.01
26 05 33 13-1654 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	76.44	24.51
26 05 33 13-1655 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	85.31	28.01
26 05 33 13-1656 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	94.34	31.51
26 05 33 13-1657 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	105.84	35.01
26 05 33 13-1658 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	122.63	40.27
26 05 33 13-1659 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	140.17	45.51
26 05 33 13-1660 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	160.97	52.52
26 05 33 13-1661 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	186.15	61.28
26 05 33 13-1662 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	216.30	70.03
26 05 33 13-1663 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint	248.50	78.78
26 05 33 13-1664 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1533)		
26 05 33 13-1665 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	44.36	4.91
26 05 33 13-1666 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	49.67	5.60
26 05 33 13-1667 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	52.51	6.30
26 05 33 13-1668 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	55.40	7.00
26 05 33 13-1669 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	60.37	8.75
26 05 33 13-1670 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	68.41	10.50
26 05 33 13-1671 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	85.60	14.01
26 05 33 13-1672 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	104.44	17.50
26 05 33 13-1673 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	125.16	22.76
26 05 33 13-1674 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	145.87	28.01
26 05 33 13-1675 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	182.36	35.01
26 05 33 13-1676 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	227.24	43.77
26 05 33 13-1677 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1533)		
26 05 33 13-1678 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	64.05	17.50
26 05 33 13-1679 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	75.06	21.01
26 05 33 13-1680 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	89.12	24.51
26 05 33 13-1681 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	107.57	28.01
26 05 33 13-1682 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	130.24	31.51
26 05 33 13-1683 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	163.79	35.01
26 05 33 13-1684 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	220.66	40.27
26 05 33 13-1685 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	262.60	45.51
26 05 33 13-1686 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	314.31	52.52
26 05 33 13-1687 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	370.39	61.28
26 05 33 13-1688 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	433.07	70.03
26 05 33 13-1689 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	634.96	78.78
26 05 33 13-1690 Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover (26 05 33 13-1533)		
26 05 33 13-1691 EA 1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	52.96	14.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-1692 EA 3/4" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	60.81	15.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.82	
26 05 33 13-1693 EA 1" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	76.41	17.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1694	EA	1-1/4" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	92.84	21.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	15.76	
26 05 33 13-1695	EA	1-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	117.49	26.26
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	19.70	
26 05 33 13-1696	EA	2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	155.58	31.51
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	23.63	
26 05 33 13-1697	EA	2-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	235.91	36.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	27.57	
26 05 33 13-1698	EA	3" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	297.04	42.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	31.51	
26 05 33 13-1699	EA	3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	355.35	49.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	36.77	
26 05 33 13-1700	EA	4" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	413.66	56.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	42.02	
26 05 33 13-1701	EA	5" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	483.96	63.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	47.27	
26 05 33 13-1702	EA	6" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	.....	547.07	70.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	52.52	
26 05 33 13-1703		Explosion Proof Conduit Fittings (26 05 33 13-0041)			
		Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.			
26 05 33 13-1704		Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1703)			
26 05 33 13-1705	EA	1/2" Explosion Proof Malleable Iron Conduit Union	.....	32.63	7.89
26 05 33 13-1706	EA	3/4" Explosion Proof Malleable Iron Conduit Union	.....	39.56	8.73
26 05 33 13-1707	EA	1" Explosion Proof Malleable Iron Conduit Union	.....	61.29	11.64
26 05 33 13-1708	EA	1-1/4" Explosion Proof Malleable Iron Conduit Union	.....	79.46	12.88
26 05 33 13-1709	EA	1-1/2" Explosion Proof Malleable Iron Conduit Union	.....	99.70	15.79
26 05 33 13-1710	EA	2" Explosion Proof Malleable Iron Conduit Union	.....	123.28	18.29
26 05 33 13-1711	EA	2-1/2" Explosion Proof Malleable Iron Conduit Union	.....	186.52	26.15
26 05 33 13-1712	EA	3" Explosion Proof Malleable Iron Conduit Union	.....	235.66	31.13
26 05 33 13-1713	EA	3-1/2" Explosion Proof Malleable Iron Conduit Union	.....	385.81	37.36
26 05 33 13-1714	EA	4" Explosion Proof Malleable Iron Conduit Union	.....	414.59	47.73
26 05 33 13-1715		Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1703)			
26 05 33 13-1716	EA	1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	.....	113.54	24.94
26 05 33 13-1717	EA	3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	.....	128.07	28.26
26 05 33 13-1718	EA	1" Explosion Proof Malleable Iron Two Hub Conduit Body	.....	148.72	31.17
26 05 33 13-1719	EA	1-1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	.....	130.09	31.17
26 05 33 13-1720	EA	3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	.....	155.17	37.41
26 05 33 13-1721	EA	1" Explosion Proof Malleable Iron Three Hub Conduit Body	.....	182.67	42.80
26 05 33 13-1722		Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1703)			
		Note: Includes sealing gasket and lock nut.			
26 05 33 13-1723	EA	1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	94.00	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	15.58	
26 05 33 13-1724	EA	3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	97.39	23.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	17.45	
26 05 33 13-1725	EA	1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	106.28	25.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	19.01	
26 05 33 13-1726	EA	1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	135.67	31.17
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	23.38	
26 05 33 13-1727	EA	1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	171.10	36.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	27.43	
26 05 33 13-1728	EA	2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	216.37	41.56
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	31.17	
26 05 33 13-1729	EA	2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	310.10	62.25
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	46.69	
26 05 33 13-1730	EA	3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	391.52	78.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	58.52	
26 05 33 13-1731	EA	3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	537.17	85.91
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	64.43	
26 05 33 13-1732	EA	4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	.....	681.80	93.39
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	70.04	
26 05 33 13-1733		Explosion Proof Flexible Conduit Couplings (26 05 33 13-1703)			
26 05 33 13-1734	EA	1/2" x 12" Explosion Proof Flexible Conduit Coupling	.....	222.07	9.56
26 05 33 13-1735	EA	3/4" x 15" Explosion Proof Flexible Conduit Coupling		289.46	10.80



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1736		Conduit Installed Below Grade (26 05 33 13-0040) Note: By direct burial In trench or in concrete slabs or duct banks. Excludes trenching, backfilling and concrete.		
26 05 33 13-1737		Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1736)		
26 05 33 13-1738		Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial (26 05 33 13-1737) Note: Includes field bend conduit up to 1".		
26 05 33 13-1739	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.00	
		For Schedule 60, Add	0.18	
		For Schedule 80, Add	0.34	
26 05 33 13-1740	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.28	
		For Schedule 60, Add	0.21	
		For Schedule 80, Add	0.38	
26 05 33 13-1741	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.60	
		For Schedule 60, Add	0.24	
		For Schedule 80, Add	0.44	
26 05 33 13-1742	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	3.93	
		For Schedule 60, Add	0.28	
		For Schedule 80, Add	0.50	
26 05 33 13-1743	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	4.25	
		For Schedule 60, Add	0.32	
		For Schedule 80, Add	0.56	
26 05 33 13-1744	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	4.62	
		For Schedule 60, Add	0.37	
		For Schedule 80, Add	0.63	
26 05 33 13-1745	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	5.25	
		For Schedule 60, Add	0.48	
		For Schedule 80, Add	0.80	
26 05 33 13-1746	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	5.68	
		For Schedule 60, Add	0.54	
		For Schedule 80, Add	0.89	
26 05 33 13-1747	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	6.26	
		For Schedule 60, Add	0.65	
		For Schedule 80, Add	1.04	
26 05 33 13-1748	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	6.64	
		For Schedule 60, Add	0.70	
		For Schedule 80, Add	1.12	
26 05 33 13-1749	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	7.68	
		For Schedule 60, Add	0.91	
		For Schedule 80, Add	1.43	
26 05 33 13-1750	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings, Direct Burial	8.74	
		For Schedule 60, Add	1.14	
		For Schedule 80, Add	1.75	
26 05 33 13-1751		Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial (26 05 33 13-1737) See CSI section 26 05 33 13-2193 for conduit field bending.		
26 05 33 13-1752	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	22.50	
		For Schedule 60, Add	1.25	
		For Schedule 80, Add	2.41	
26 05 33 13-1753	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	26.96	
		For Schedule 60, Add	1.49	
		For Schedule 80, Add	2.87	
26 05 33 13-1754	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	31.76	
		For Schedule 60, Add	1.81	
		For Schedule 80, Add	3.46	
26 05 33 13-1755	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	36.65	
		For Schedule 60, Add	2.16	
		For Schedule 80, Add	4.08	
26 05 33 13-1756	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	41.62	
		For Schedule 60, Add	2.53	
		For Schedule 80, Add	4.72	
26 05 33 13-1757	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	46.73	
		For Schedule 60, Add	2.93	
		For Schedule 80, Add	5.41	
26 05 33 13-1758	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	53.70	
		For Schedule 60, Add	3.80	
		For Schedule 80, Add	6.76	
26 05 33 13-1759	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	61.85	
		For Schedule 60, Add	4.96	
		For Schedule 80, Add	8.52	
26 05 33 13-1760	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	74.40	
		For Schedule 60, Add	6.34	
		For Schedule 80, Add	10.72	
26 05 33 13-1761	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	86.94	
		For Schedule 60, Add	7.73	
		For Schedule 80, Add	12.92	
26 05 33 13-1762	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	108.00	
		For Schedule 60, Add	11.24	
		For Schedule 80, Add	18.11	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1763	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	124.83 13.70 21.81	
26 05 33 13-1764 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial (26 05 33 13-1737)				
See CSI section 26 05 33 13-2193 for conduit field bending.				
26 05 33 13-1765	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	22.37 1.22 2.36	
26 05 33 13-1766	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	26.92 1.48 2.86	
26 05 33 13-1767	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	31.69 1.80 3.43	
26 05 33 13-1768	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	36.45 2.11 4.01	
26 05 33 13-1769	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	41.18 2.42 4.56	
26 05 33 13-1770	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	46.49 2.87 5.33	
26 05 33 13-1771	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	53.25 3.68 6.60	
26 05 33 13-1772	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	61.29 4.82 8.32	
26 05 33 13-1773	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	72.83 5.95 10.17	
26 05 33 13-1774	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	85.58 7.39 12.45	
26 05 33 13-1775	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	106.24 10.80 17.49	
26 05 33 13-1776	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	119.61 12.40 19.98	
26 05 33 13-1777 Polyvinyl Chloride (PVC) Conduit Adapters, Direct Burial (26 05 33 13-1737)				
26 05 33 13-1778	EA	1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.54 3.68	
26 05 33 13-1779	EA	3/4" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.38 4.20	
26 05 33 13-1780	EA	1" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.26 4.73	
26 05 33 13-1781	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.20 5.25	
26 05 33 13-1782	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.00 5.78	
26 05 33 13-1783	EA	2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.01 6.30	
26 05 33 13-1784	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.66 7.09	
26 05 33 13-1785	EA	3" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.08 7.88	
26 05 33 13-1786	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.24 9.19	
26 05 33 13-1787	EA	4" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.71 10.50	
26 05 33 13-1788	EA	5" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.69 11.82	
26 05 33 13-1789	EA	6" Polyvinyl Chloride (PVC) Conduit Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.52 13.13	
26 05 33 13-1790 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-1737)				
26 05 33 13-1791	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	21.32	
26 05 33 13-1792	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	23.50	
26 05 33 13-1793	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	26.46	
26 05 33 13-1794	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	29.59	
26 05 33 13-1795	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	32.71	
26 05 33 13-1796	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	38.56	
26 05 33 13-1797	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	42.94	
26 05 33 13-1798	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	51.23	
26 05 33 13-1799	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	57.11	



Electrical		26
Common Work Results For Electrical		26 05
Raceway And Boxes For Electrical Systems		26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-1800	Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial (26 05 33 13-1737)			
26 05 33 13-1801	EA	1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	12.49	
26 05 33 13-1802	EA	3/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	14.38	
26 05 33 13-1803	EA	1" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	16.19	
26 05 33 13-1804	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Terminal Adapters, Direct Burial	18.08	
26 05 33 13-1805	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	19.89	
26 05 33 13-1806	EA	2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	21.87	
26 05 33 13-1807	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	25.36	
26 05 33 13-1808	EA	3" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	28.66	
26 05 33 13-1809	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	33.71	
26 05 33 13-1810	EA	4" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	38.16	
26 05 33 13-1811	EA	5" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	45.61	
26 05 33 13-1812	EA	6" Polyvinyl Chloride (PVC) Conduit Terminal Adapter, Direct Burial	51.23	
26 05 33 13-1813	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1736) Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).			
26 05 33 13-1814	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1813) Note: Includes field bending for conduit up to 1".			
26 05 33 13-1815	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	9.50	1.99
		For >250 To 500, Deduct	-0.34	
		For >500 To 1,000, Deduct	-0.58	
		For >1,000, Deduct	-0.82	
26 05 33 13-1816	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	10.65	2.47
		For >250 To 500, Deduct	-0.39	
		For >500 To 1,000, Deduct	-0.66	
		For >1,000, Deduct	-0.92	
26 05 33 13-1817	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	13.06	2.76
		For >250 To 500, Deduct	-0.49	
		For >500 To 1,000, Deduct	-0.81	
		For >1,000, Deduct	-1.14	
26 05 33 13-1818	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	15.73	3.70
		For >250 To 500, Deduct	-0.60	
		For >500 To 1,000, Deduct	-0.99	
		For >1,000, Deduct	-1.38	
26 05 33 13-1819	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	18.44	4.18
		For >250 To 500, Deduct	-0.71	
		For >500 To 1,000, Deduct	-1.17	
		For >1,000, Deduct	-1.63	
26 05 33 13-1820	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	23.33	4.55
		For >250 To 500, Deduct	-0.91	
		For >500 To 1,000, Deduct	-1.49	
		For >1,000, Deduct	-2.07	
26 05 33 13-1821	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	33.79	6.83
		For >250 To 500, Deduct	-1.33	
		For >500 To 1,000, Deduct	-2.18	
		For >1,000, Deduct	-3.02	
26 05 33 13-1822	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	43.63	8.54
		For >250 To 500, Deduct	-1.71	
		For >500 To 1,000, Deduct	-2.80	
		For >1,000, Deduct	-3.89	
26 05 33 13-1823	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	53.89	9.01
		For >250 To 500, Deduct	-2.10	
		For >500 To 1,000, Deduct	-3.45	
		For >1,000, Deduct	-4.80	
26 05 33 13-1824	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	64.02	9.96
		For >250 To 500, Deduct	-2.49	
		For >500 To 1,000, Deduct	-4.09	
		For >1,000, Deduct	-5.69	
26 05 33 13-1825	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	99.06	13.76
		For >250 To 500, Deduct	-4.05	
		For >500 To 1,000, Deduct	-6.53	
		For >1,000, Deduct	-9.01	
26 05 33 13-1826	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	131.90	18.03
		For >250 To 500, Deduct	-5.46	
		For >500 To 1,000, Deduct	-8.75	
		For >1,000, Deduct	-12.05	
26 05 33 13-1827	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-1813)			
26 05 33 13-1828	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	10.21	2.85
26 05 33 13-1829	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	12.33	3.80
26 05 33 13-1830	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	15.64	4.74
26 05 33 13-1831	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	17.60	5.22
26 05 33 13-1832	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	20.87	6.16
26 05 33 13-1833	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	26.71	7.11

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1834 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	47.96	8.54
26 05 33 13-1835 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	61.22	11.85
26 05 33 13-1836 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	75.62	13.76
26 05 33 13-1837 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	94.20	18.97
26 05 33 13-1838 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	235.49	26.08
26 05 33 13-1839 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	234.18	14.70
26 05 33 13-1840 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-1813) Note: 90, 45, or 30 degree.		
26 05 33 13-1841 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	39.56	11.85
26 05 33 13-1842 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	45.86	14.70
26 05 33 13-1843 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	54.90	18.03
26 05 33 13-1844 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	64.92	20.87
26 05 33 13-1845 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	75.91	23.72
26 05 33 13-1846 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	91.92	26.08
26 05 33 13-1847 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	140.35	32.73
26 05 33 13-1848 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	208.84	44.58
26 05 33 13-1849 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	257.59	50.27
26 05 33 13-1850 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	296.90	65.45
26 05 33 13-1851 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	613.47	106.72
26 05 33 13-1852 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	963.64	160.31
26 05 33 13-1853 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-1813)		
26 05 33 13-1854 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	92.24	18.03
26 05 33 13-1855 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	103.90	20.87
26 05 33 13-1856 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	118.59	23.72
26 05 33 13-1857 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	141.17	26.08
26 05 33 13-1858 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	196.09	32.73
26 05 33 13-1859 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-1813)		
26 05 33 13-1860 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	102.34	18.03
26 05 33 13-1861 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	120.59	20.87
26 05 33 13-1862 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	130.56	23.72
26 05 33 13-1863 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	167.26	26.08
26 05 33 13-1864 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	221.24	32.73
26 05 33 13-1865 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	283.44	44.58
26 05 33 13-1866 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-1813)		
26 05 33 13-1867 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	114.41	18.03
26 05 33 13-1868 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	129.28	20.87
26 05 33 13-1869 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	145.91	23.72
26 05 33 13-1870 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	175.91	26.08
26 05 33 13-1871 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	250.15	32.73
26 05 33 13-1872 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	317.38	44.58



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1873	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	399.71		50.27	
26 05 33 13-1874	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	451.74		65.45	
26 05 33 13-1875		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1876	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	135.27		18.03	
26 05 33 13-1877	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	149.68		20.87	
26 05 33 13-1878	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	169.07		23.72	
26 05 33 13-1879	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	209.26		26.08	
26 05 33 13-1880	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	301.88		32.73	
26 05 33 13-1881	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	374.88		44.58	
26 05 33 13-1882	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	434.82		50.27	
26 05 33 13-1883	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial	516.19		65.45	
26 05 33 13-1884		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1885	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	151.49		18.03	
26 05 33 13-1886	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	168.66		20.87	
26 05 33 13-1887	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	191.86		23.72	
26 05 33 13-1888	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	238.29		26.08	
26 05 33 13-1889	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	330.11		32.73	
26 05 33 13-1890	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	420.87		44.58	
26 05 33 13-1891	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	520.18		50.27	
26 05 33 13-1892	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	575.36		65.45	
26 05 33 13-1893	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial	958.86		106.72	
26 05 33 13-1894		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1895	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	172.72		18.03	
26 05 33 13-1896	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	191.61		20.87	
26 05 33 13-1897	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	216.85		23.72	
26 05 33 13-1898	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	270.49		26.08	
26 05 33 13-1899	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	377.15		32.73	
26 05 33 13-1900	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	479.46		44.58	
26 05 33 13-1901	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	562.95		50.27	
26 05 33 13-1902	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	651.73		65.45	
26 05 33 13-1903	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,012.39		106.72	
26 05 33 13-1904	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial	1,386.60		160.31	
26 05 33 13-1905		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1906	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	202.26		18.03	
26 05 33 13-1907	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	212.06		20.87	
26 05 33 13-1908	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	250.29		23.72	
26 05 33 13-1909	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	315.32		26.08	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1910	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	440.57	32.73
26 05 33 13-1911	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	558.46	44.58
26 05 33 13-1912	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	681.86	50.27
26 05 33 13-1913	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	800.32	65.45
26 05 33 13-1914	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,186.99	106.72
26 05 33 13-1915	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial	1,466.75	160.31
26 05 33 13-1916 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1917	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	209.38	18.03
26 05 33 13-1918	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	246.65	20.87
26 05 33 13-1919	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	279.22	23.72
26 05 33 13-1920	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	328.81	26.08
26 05 33 13-1921	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	456.41	32.73
26 05 33 13-1922	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	582.75	44.58
26 05 33 13-1923	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	746.62	50.27
26 05 33 13-1924	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	834.02	65.45
26 05 33 13-1925	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,233.89	106.72
26 05 33 13-1926	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial	1,507.47	160.31
26 05 33 13-1927 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1928	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	70.94	11.85
26 05 33 13-1929	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	77.49	14.70
26 05 33 13-1930	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	100.49	18.03
26 05 33 13-1931	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	145.47	20.87
26 05 33 13-1932	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	172.54	23.72
26 05 33 13-1933	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	218.90	26.08
26 05 33 13-1934	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	291.18	32.73
26 05 33 13-1935	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	376.65	32.73
26 05 33 13-1936	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	486.57	50.27
26 05 33 13-1937	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	626.56	65.45
26 05 33 13-1938	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,139.88	106.72
26 05 33 13-1939	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial	1,424.01	160.31
26 05 33 13-1940 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-1813)				
26 05 33 13-1941	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	72.53	11.85
26 05 33 13-1942	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	83.56	14.70
26 05 33 13-1943	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	103.73	18.03
26 05 33 13-1944	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	151.41	20.87
26 05 33 13-1945	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	180.79	23.72
26 05 33 13-1946	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	236.72	26.08
26 05 33 13-1947	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	329.31	32.73



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1948	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	415.42	32.73
26 05 33 13-1949	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	556.66	50.27
26 05 33 13-1950	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	696.39	65.45
26 05 33 13-1951	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,267.88	106.72
26 05 33 13-1952	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,630.70	160.31
26 05 33 13-1953		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-1813)		
26 05 33 13-1954	EA	1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	24.77	5.69
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.41	
26 05 33 13-1955	EA	3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	27.88	7.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.27	
26 05 33 13-1956	EA	1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.43	9.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.41	
26 05 33 13-1957	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.58	10.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.26	
26 05 33 13-1958	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.01	11.85
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.12	
26 05 33 13-1959	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	27.45	6.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.70	
26 05 33 13-1960	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	29.71	7.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.27	
26 05 33 13-1961	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.28	9.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.41	
26 05 33 13-1962	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.54	10.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.26	
26 05 33 13-1963	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.12	11.85
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.12	
26 05 33 13-1964	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.87	13.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33 13-1965	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	27.58	6.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.70	
26 05 33 13-1966	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	29.83	7.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.27	
26 05 33 13-1967	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.50	9.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.41	
26 05 33 13-1968	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.78	10.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.26	
26 05 33 13-1969	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.36	11.85
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.11	
26 05 33 13-1970	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.52	13.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33 13-1971	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	29.32	6.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.70	
26 05 33 13-1972	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.57	7.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.27	
26 05 33 13-1973	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.37	9.01
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.41	
26 05 33 13-1974	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.84	10.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.26	
26 05 33 13-1975	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.53	11.85
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.11	
26 05 33 13-1976	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.57	13.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1977 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.37	16.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-1978 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	91.23	22.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-1979 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	29.44	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-1980 EA 3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.81	7.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1981 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.63	9.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-1982 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.90	10.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-1983 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.71	11.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-1984 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.62	13.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1985 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.19	16.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-1986 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.13	22.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-1987 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	113.31	25.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-1988 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	132.89	32.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-1989 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	29.68	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-1990 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.07	7.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1991 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.90	9.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-1992 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.40	10.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-1993 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.22	11.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-1994 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.74	13.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-1995 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	79.39	16.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-1996 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	100.96	22.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-1997 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	114.56	25.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-1998 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	136.22	32.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-1999 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	200.19	45.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	
26 05 33 13-2000 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	30.14	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-2001 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.52	7.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-2002 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	37.39	9.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-2003 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.31	10.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-2004 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.32	11.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2005 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.85	13.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-2006 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	86.71	16.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-2007 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	108.72	22.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-2008 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	121.54	25.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-2009 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	148.00	32.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-2010 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	217.81	45.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	
26 05 33 13-2011 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	30.85	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-2012 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.22	7.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-2013 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.49	9.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-2014 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.55	10.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-2015 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.55	11.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-2016 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.30	13.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-2017 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.71	16.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-2018 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	119.33	22.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-2019 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	139.03	25.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-2020 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	165.69	32.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-2021 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	229.89	45.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	
26 05 33 13-2022 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	31.60	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-2023 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	33.95	7.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-2024 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.57	9.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-2025 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.84	10.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-2026 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.85	11.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	
26 05 33 13-2027 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	68.32	13.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97	
26 05 33 13-2028 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	105.23	16.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 33 13-2029 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	132.92	22.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37	
26 05 33 13-2030 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	157.40	25.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08	
26 05 33 13-2031 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	196.65	32.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63	
26 05 33 13-2032 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	253.98	45.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2033	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.37	6.16	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70		
26 05 33 13-2034	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	34.81	7.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-2035	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.31	9.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41		
26 05 33 13-2036	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.26	10.43	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26		
26 05 33 13-2037	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.27	11.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11		
26 05 33 13-2038	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	74.75	13.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.97		
26 05 33 13-2039	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	117.92	16.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68		
26 05 33 13-2040	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	153.30	22.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.37		
26 05 33 13-2041	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	168.67	25.14	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.08		
26 05 33 13-2042	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	206.14	32.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.63		
26 05 33 13-2043	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	257.42	45.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.03		
26 05 33 13-2044		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1736) Note: Direct burial or encased application.			
26 05 33 13-2045		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2044)			
26 05 33 13-2046	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	4.46	1.14	
		For Work In Restricted Working Space, Add	0.85		
26 05 33 13-2047	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	4.89	1.22	
		For Work In Restricted Working Space, Add	0.92		
26 05 33 13-2048	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.21	1.31	
		For Work In Restricted Working Space, Add	0.98		
26 05 33 13-2049	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.54	1.40	
		For Work In Restricted Working Space, Add	1.05		
26 05 33 13-2050	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	5.93	1.49	
		For Work In Restricted Working Space, Add	1.12		
26 05 33 13-2051	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	6.20	1.57	
		For Work In Restricted Working Space, Add	1.18		
26 05 33 13-2052	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	6.87	1.66	
		For Work In Restricted Working Space, Add	1.25		
26 05 33 13-2053	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	7.63	1.75	
		For Work In Restricted Working Space, Add	1.31		
26 05 33 13-2054	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.26	1.84	
		For Work In Restricted Working Space, Add	1.38		
26 05 33 13-2055	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.88	1.92	
		For Work In Restricted Working Space, Add	1.45		
26 05 33 13-2056	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.12	2.01	
		For Work In Restricted Working Space, Add	1.51		
26 05 33 13-2057	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.60	2.10	
		For Work In Restricted Working Space, Add	1.58		
26 05 33 13-2058		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2044)			
26 05 33 13-2059	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	51.88	8.75	
		For Work In Restricted Working Space, Add	6.56		
		For 24" Radius, Add	3.34		
		For 36" Radius, Add	5.19		
		For 48" Radius, Add	7.03		
26 05 33 13-2060	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	59.85	10.50	
		For Work In Restricted Working Space, Add	7.88		
		For 24" Radius, Add	3.83		
		For 36" Radius, Add	5.99		
		For 48" Radius, Add	8.14		
26 05 33 13-2061	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	64.56	12.26	
		For Work In Restricted Working Space, Add	9.19		
		For 24" Radius, Add	4.08		
		For 36" Radius, Add	6.46		
		For 48" Radius, Add	8.84		



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Raceway And Boxes For Electrical Systems			26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-2062	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	69.27		14.01	
	For Work In Restricted Working Space, Add	10.50			
	For 24" Radius, Add	4.32			
	For 36" Radius, Add	6.93			
	For 48" Radius, Add	9.53			
26 05 33 13-2063	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	74.00		15.75	
	For Work In Restricted Working Space, Add	11.82			
	For 24" Radius, Add	4.57			
	For 36" Radius, Add	7.40			
	For 48" Radius, Add	10.24			
26 05 33 13-2064	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	83.14		17.50	
	For Work In Restricted Working Space, Add	13.13			
	For 24" Radius, Add	5.14			
	For 36" Radius, Add	8.31			
	For 48" Radius, Add	11.49			
26 05 33 13-2065	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	95.27		19.26	
	For Work In Restricted Working Space, Add	14.45			
	For 24" Radius, Add	5.94			
	For 36" Radius, Add	9.53			
	For 48" Radius, Add	13.11			
26 05 33 13-2066	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	109.07		21.01	
	For Work In Restricted Working Space, Add	15.76			
	For 24" Radius, Add	6.87			
	For 36" Radius, Add	10.91			
	For 48" Radius, Add	14.95			
26 05 33 13-2067	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	124.90		24.51	
	For Work In Restricted Working Space, Add	18.38			
	For 24" Radius, Add	7.84			
	For 36" Radius, Add	12.49			
	For 48" Radius, Add	17.14			
26 05 33 13-2068	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	140.71		31.51	
	For Work In Restricted Working Space, Add	21.01			
	For 24" Radius, Add	8.80			
	For 36" Radius, Add	14.07			
	For 48" Radius, Add	19.34			
26 05 33 13-2069	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	167.14		31.51	
	For Work In Restricted Working Space, Add	23.63			
	For 24" Radius, Add	10.57			
	For 36" Radius, Add	16.71			
	For 48" Radius, Add	22.86			
26 05 33 13-2070	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	197.97		35.01	
	For Work In Restricted Working Space, Add	26.26			
	For 24" Radius, Add	12.66			
	For 36" Radius, Add	19.80			
	For 48" Radius, Add	26.93			
26 05 33 13-2071	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2044)				
26 05 33 13-2072	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	24.68		4.91	
	For Work In Restricted Working Space, Add	3.68			
26 05 33 13-2073	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	27.85		5.60	
	For Work In Restricted Working Space, Add	4.20			
26 05 33 13-2074	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	29.73		6.30	
	For Work In Restricted Working Space, Add	4.73			
26 05 33 13-2075	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	31.60		7.00	
	For Work In Restricted Working Space, Add	5.25			
26 05 33 13-2076	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	33.64		7.70	
	For Work In Restricted Working Space, Add	5.78			
26 05 33 13-2077	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	38.14		8.40	
	For Work In Restricted Working Space, Add	6.30			
26 05 33 13-2078	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	44.25		9.45	
	For Work In Restricted Working Space, Add	7.09			
26 05 33 13-2079	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	51.00		10.50	
	For Work In Restricted Working Space, Add	7.88			
26 05 33 13-2080	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	58.46		12.26	
	For Work In Restricted Working Space, Add	9.19			
26 05 33 13-2081	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	65.94		14.01	
	For Work In Restricted Working Space, Add	10.50			
26 05 33 13-2082	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	78.05		15.75	
	For Work In Restricted Working Space, Add	11.82			
26 05 33 13-2083	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	92.07		17.50	
	For Work In Restricted Working Space, Add	13.13			

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2084 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2044)		
26 05 33 13-2085 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	19.27	4.91
For Work In Restricted Working Space, Add	3.68	
26 05 33 13-2086 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	21.80	5.60
For Work In Restricted Working Space, Add	4.20	
26 05 33 13-2087 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	23.62	6.30
For Work In Restricted Working Space, Add	4.73	
26 05 33 13-2088 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	25.45	7.00
For Work In Restricted Working Space, Add	5.25	
26 05 33 13-2089 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	27.29	7.70
For Work In Restricted Working Space, Add	5.78	
26 05 33 13-2090 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	29.09	8.40
For Work In Restricted Working Space, Add	6.30	
26 05 33 13-2091 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	33.33	9.45
For Work In Restricted Working Space, Add	7.09	
26 05 33 13-2092 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	37.90	10.50
For Work In Restricted Working Space, Add	7.88	
26 05 33 13-2093 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	43.72	12.26
For Work In Restricted Working Space, Add	9.19	
26 05 33 13-2094 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	49.56	14.01
For Work In Restricted Working Space, Add	10.50	
26 05 33 13-2095 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	57.60	15.75
For Work In Restricted Working Space, Add	11.82	
26 05 33 13-2096 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	66.51	17.50
For Work In Restricted Working Space, Add	13.13	
26 05 33 13-2097 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-2044)		
26 05 33 13-2098 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	15.71	2.80
For Work In Restricted Working Space, Add	2.10	
26 05 33 13-2099 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	17.56	3.15
For Work In Restricted Working Space, Add	2.36	
26 05 33 13-2100 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	18.54	3.50
For Work In Restricted Working Space, Add	2.63	
26 05 33 13-2101 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	19.48	3.86
For Work In Restricted Working Space, Add	2.89	
26 05 33 13-2102 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	20.57	4.21
For Work In Restricted Working Space, Add	3.15	
26 05 33 13-2103 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	24.25	4.91
For Work In Restricted Working Space, Add	3.68	
26 05 33 13-2104 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	29.26	5.95
For Work In Restricted Working Space, Add	4.46	
26 05 33 13-2105 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	34.76	7.00
For Work In Restricted Working Space, Add	5.25	
26 05 33 13-2106 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	41.29	8.75
For Work In Restricted Working Space, Add	6.56	
26 05 33 13-2107 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	47.83	10.50
For Work In Restricted Working Space, Add	7.88	
26 05 33 13-2108 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	57.58	12.26
For Work In Restricted Working Space, Add	9.19	
26 05 33 13-2109 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	68.71	14.01
For Work In Restricted Working Space, Add	10.50	
26 05 33 13-2110 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-2044)		
26 05 33 13-2111 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	53.37	17.50
For Work In Restricted Working Space, Add	13.13	
26 05 33 13-2112 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	63.17	21.01
For Work In Restricted Working Space, Add	15.76	
26 05 33 13-2113 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	72.05	24.51
For Work In Restricted Working Space, Add	18.38	
26 05 33 13-2114 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	80.87	28.01
For Work In Restricted Working Space, Add	21.01	
26 05 33 13-2115 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	85.50	29.76
For Work In Restricted Working Space, Add	22.32	
26 05 33 13-2116 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	91.97	31.51
For Work In Restricted Working Space, Add	23.63	
26 05 33 13-2117 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	98.99	33.27
For Work In Restricted Working Space, Add	24.95	
26 05 33 13-2118 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	106.53	35.01
For Work In Restricted Working Space, Add	26.26	
26 05 33 13-2119 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	113.29	36.76
For Work In Restricted Working Space, Add	27.57	
26 05 33 13-2120 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	120.04	38.51
For Work In Restricted Working Space, Add	28.89	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 33 13-2121	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	130.35		40.27	
	For Work In Restricted Working Space, Add	30.20			
26 05 33 13-2122	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	142.15		42.02	
	For Work In Restricted Working Space, Add	31.51			
26 05 33 13-2123 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring					
Expansion Joints (26 05 33 13-2044)					
26 05 33 13-2124	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	57.27		17.50	
	For Work In Restricted Working Space, Add	13.13			
26 05 33 13-2125	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	67.54		21.01	
	For Work In Restricted Working Space, Add	15.76			
26 05 33 13-2126	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	76.44		24.51	
	For Work In Restricted Working Space, Add	18.38			
26 05 33 13-2127	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	85.31		28.01	
	For Work In Restricted Working Space, Add	21.01			
26 05 33 13-2128	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	89.97		29.76	
	For Work In Restricted Working Space, Add	22.32			
26 05 33 13-2129	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	97.09		31.51	
	For Work In Restricted Working Space, Add	23.63			
26 05 33 13-2130	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	105.13		33.27	
	For Work In Restricted Working Space, Add	24.95			
26 05 33 13-2131	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	113.90		35.01	
	For Work In Restricted Working Space, Add	26.26			
26 05 33 13-2132	EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	121.57		36.76	
	For Work In Restricted Working Space, Add	27.57			
26 05 33 13-2133	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	129.25		38.51	
	For Work In Restricted Working Space, Add	28.89			
26 05 33 13-2134	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	141.89		40.27	
	For Work In Restricted Working Space, Add	30.20			
26 05 33 13-2135	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	156.58		42.02	
	For Work In Restricted Working Space, Add	31.51			
26 05 33 13-2136 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters					
(26 05 33 13-2044)					
26 05 33 13-2137	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	44.36		4.91	
	For Work In Restricted Working Space, Add	3.68			
26 05 33 13-2138	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	49.67		5.60	
	For Work In Restricted Working Space, Add	4.20			
26 05 33 13-2139	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	52.51		6.30	
	For Work In Restricted Working Space, Add	4.73			
26 05 33 13-2140	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	55.40		7.00	
	For Work In Restricted Working Space, Add	5.25			
26 05 33 13-2141	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	57.75		7.70	
	For Work In Restricted Working Space, Add	5.78			
26 05 33 13-2142	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	63.16		8.40	
	For Work In Restricted Working Space, Add	6.30			
26 05 33 13-2143	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	74.22		9.45	
	For Work In Restricted Working Space, Add	7.09			
26 05 33 13-2144	EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	86.93		10.50	
	For Work In Restricted Working Space, Add	7.88			
26 05 33 13-2145	EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	110.85		14.01	
	For Work In Restricted Working Space, Add	10.50			
26 05 33 13-2146	EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	134.23		15.75	
	For Work In Restricted Working Space, Add	11.82			
26 05 33 13-2147	EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	161.58		17.50	
	For Work In Restricted Working Space, Add	13.13			
26 05 33 13-2148 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring					
Expansion/Deflection Joints (26 05 33 13-2044)					
26 05 33 13-2149	EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	64.05		17.50	
	For Work In Restricted Working Space, Add	13.13			
26 05 33 13-2150	EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	75.06		21.01	
	For Work In Restricted Working Space, Add	15.76			
26 05 33 13-2151	EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	89.12		24.51	
	For Work In Restricted Working Space, Add	18.38			
26 05 33 13-2152	EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	107.57		28.01	
	For Work In Restricted Working Space, Add	21.01			
26 05 33 13-2153	EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	125.87		29.76	
	For Work In Restricted Working Space, Add	22.32			
26 05 33 13-2154	EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	155.04		31.51	
	For Work In Restricted Working Space, Add	23.63			
26 05 33 13-2155	EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	203.16		33.27	
	For Work In Restricted Working Space, Add	24.95			

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2156 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....236.33	236.33	35.01
For Work In Restricted Working Space, Add	26.26	
26 05 33 13-2157 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....274.91	274.91	36.76
For Work In Restricted Working Space, Add	27.57	
26 05 33 13-2158 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....313.49	313.49	38.51
For Work In Restricted Working Space, Add	28.89	
26 05 33 13-2159 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....358.66	358.66	40.27
For Work In Restricted Working Space, Add	30.20	
26 05 33 13-2160 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial .....543.04	543.04	42.02
For Work In Restricted Working Space, Add	31.51	
26 05 33 13-2161 Spacers (26 05 33 13-1736)		
Note: For concrete encasement applications. See CSI section 26 05 33 13-1736 for conduit.		
26 05 33 13-2162 EA 1" Base Spacers, Average 4" Wide, Direct Burial .....8.90	8.90	
26 05 33 13-2163 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial .....9.61	9.61	
26 05 33 13-2164 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial .....10.63	10.63	
26 05 33 13-2165 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial .....11.49	11.49	
26 05 33 13-2166 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial .....10.69	10.69	
26 05 33 13-2167 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial .....11.54	11.54	
26 05 33 13-2168 EA 2" Base Spacer, Average 4" Wide, Direct Burial .....13.38	13.38	
26 05 33 13-2169 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial .....12.43	12.43	
26 05 33 13-2170 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial .....14.81	14.81	
26 05 33 13-2171 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial .....14.31	14.31	
26 05 33 13-2172 EA 3" Base Spacer, Average 4" Wide, Direct Burial .....17.00	17.00	
26 05 33 13-2173 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial .....16.18	16.18	
26 05 33 13-2174 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial .....18.41	18.41	
26 05 33 13-2175 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial .....17.58	17.58	
26 05 33 13-2176 EA 4" Base Spacer, Average 4" Wide, Direct Burial .....18.95	18.95	
26 05 33 13-2177 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial .....18.08	18.08	
26 05 33 13-2178 EA 5" Base Spacer, Average 4" Wide, Direct Burial .....20.94	20.94	
26 05 33 13-2179 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial .....19.91	19.91	
26 05 33 13-2180 EA 6" Base Spacer, Average 4" Wide, Direct Burial .....23.33	23.33	
26 05 33 13-2181 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial .....22.48	22.48	
26 05 33 13-2182 Conduit Field Bending (26 05 33 13-0040)		
26 05 33 13-2183 Metallic Conduit Field Bending (26 05 33 13-2182)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2184 EA 1-1/4" Metallic Conduit Field Bending .....15.93	15.93	
26 05 33 13-2185 EA 1-1/2" Metallic Conduit Field Bending .....21.24	21.24	
26 05 33 13-2186 EA 2" Metallic Conduit Field Bending .....26.55	26.55	
26 05 33 13-2187 EA 2-1/2" Metallic Conduit Field Bending .....37.17	37.17	
26 05 33 13-2188 EA 3" Metallic Conduit Field Bending .....47.78	47.78	
26 05 33 13-2189 EA 3-1/2" Metallic Conduit Field Bending .....58.40	58.40	
26 05 33 13-2190 EA 4" Metallic Conduit Field Bending .....69.02	69.02	
26 05 33 13-2191 EA 5" Metallic Conduit Field Bending .....84.95	84.95	
26 05 33 13-2192 EA 6" Metallic Conduit Field Bending .....100.88	100.88	
26 05 33 13-2193 Plastic Conduit Field Bending (26 05 33 13-2182)		
Note: For PVC conduits.		
26 05 33 13-2194 EA 1" Plastic Conduit Field Bending .....24.43	24.43	
26 05 33 13-2195 EA 1-1/4" Plastic Conduit Field Bending .....26.55	26.55	
26 05 33 13-2196 EA 1-1/2" Plastic Conduit Field Bending .....31.85	31.85	
26 05 33 13-2197 EA 2" Plastic Conduit Field Bending .....42.47	42.47	
26 05 33 13-2198 EA 2-1/2" Plastic Conduit Field Bending .....53.10	53.10	
26 05 33 13-2199 EA 3" Plastic Conduit Field Bending .....63.72	63.72	
26 05 33 13-2200 EA 3-1/2" Plastic Conduit Field Bending .....74.33	74.33	
26 05 33 13-2201 EA 4" Plastic Conduit Field Bending .....84.95	84.95	
26 05 33 13-2202 EA 5" Plastic Conduit Field Bending .....95.57	95.57	
26 05 33 13-2203 EA 6" Plastic Conduit Field Bending .....106.19	106.19	
26 05 33 13-2204 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0040)		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2205 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit .....31.17	31.17	
For Work In Restricted Working Space, Add	9.35	
26 05 33 13-2206 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit .....34.29	34.29	
For Work In Restricted Working Space, Add	10.29	
26 05 33 13-2207 EA 1", Cut And Thread Existing In-Place Threaded Conduit .....37.41	37.41	
For Work In Restricted Working Space, Add	11.22	
26 05 33 13-2208 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit .....40.52	40.52	
For Work In Restricted Working Space, Add	12.16	
26 05 33 13-2209 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit .....42.60	42.60	
For Work In Restricted Working Space, Add	12.78	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-2210	EA 2", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	44.68 13.40		
26 05 33 13-2211	EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	46.76 14.03		
26 05 33 13-2212	EA 3", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	48.83 14.65		
26 05 33 13-2213	EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	49.87 14.96		
26 05 33 13-2214	EA 4", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	50.91 15.27		
26 05 33 13-2215	EA 5", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	52.98 15.89		
26 05 33 13-2216	EA 6", Cut And Thread Existing In-Place Threaded Conduit..... <i>For Work In Restricted Working Space, Add</i>	55.06 16.52		
26 05 33 13-2217	Flexible Conduit (26 05 33 13-0040)			
26 05 33 13-2218	Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-2217) Note: Steel inner core with PVC cover.			
26 05 33 13-2219	Flexible Liquid Tight Metallic Conduit (26 05 33 13-2218)			
26 05 33 13-2220	LF 3/8" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	3.88 0.43 0.86	1.14	
26 05 33 13-2221	LF 1/2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	4.03 0.43 0.86	1.14	
26 05 33 13-2222	LF 3/4" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	5.40 0.57 1.14	1.51	
26 05 33 13-2223	LF 1" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	6.21 0.57 1.14	1.51	
26 05 33 13-2224	LF 1-1/4" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	8.03 0.71 1.42	1.89	
26 05 33 13-2225	LF 1-1/2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.31 0.85 1.71	2.27	
26 05 33 13-2226	LF 2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	13.57 1.14 2.28	3.04	
26 05 33 13-2227	LF 2-1/2" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	18.41 1.28 2.56	3.42	
26 05 33 13-2228	LF 3" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	27.03 1.56 3.13	4.18	
26 05 33 13-2229	LF 4" Flexible Liquid Tight Metallic Conduit..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	36.98 1.99 3.98	5.31	
26 05 33 13-2230	Straight Connector (26 05 33 13-2218)			
26 05 33 13-2231	EA 3/8" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.52 2.28 2.28	3.04	
26 05 33 13-2232	EA 1/2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.52 2.28 2.28	3.04	
26 05 33 13-2233	EA 3/4" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.74 2.56 2.56	3.42	
26 05 33 13-2234	EA 1" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.98 2.85 2.85	3.80	
26 05 33 13-2235	EA 1-1/4" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.75 3.13 3.13	4.18	
26 05 33 13-2236	EA 1-1/2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.53 3.41 3.41	4.55	
26 05 33 13-2237	EA 2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.88 3.98 3.98	5.31	
26 05 33 13-2238	EA 2-1/2" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.76 5.12 5.12	6.83	
26 05 33 13-2239	EA 3" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.94 5.41 5.41	7.20	
26 05 33 13-2240	EA 4" Straight Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	203.20 7.97 7.97	10.62	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2241			90 Degree Angle Connector (26 05 33 13-2218)		
26 05 33 13-2242	EA		3/8" 90 Degree Angle Liquid Tight Connector.....	15.32	4.18
			For Work In Restricted Working Space, Add	3.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 33 13-2243	EA		1/2" 90 Degree Angle Liquid Tight Connector.....	15.95	4.18
			For Work In Restricted Working Space, Add	3.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 33 13-2244	EA		3/4" 90 Degree Angle Liquid Tight Connector.....	18.02	4.55
			For Work In Restricted Working Space, Add	3.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.41	
26 05 33 13-2245	EA		1" 90 Degree Angle Liquid Tight Connector.....	25.35	5.31
			For Work In Restricted Working Space, Add	3.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.98	
26 05 33 13-2246	EA		1-1/4" 90 Degree Angle Liquid Tight Connector.....	31.89	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-2247	EA		1-1/2" 90 Degree Angle Liquid Tight Connector.....	38.63	6.07
			For Work In Restricted Working Space, Add	4.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2248	EA		2" 90 Degree Angle Liquid Tight Connector.....	51.04	6.83
			For Work In Restricted Working Space, Add	5.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12	
26 05 33 13-2249	EA		2-1/2" 90 Degree Angle Liquid Tight Connector.....	179.76	7.20
			For Work In Restricted Working Space, Add	5.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-2250	EA		3" 90 Degree Angle Liquid Tight Connector.....	212.39	8.35
			For Work In Restricted Working Space, Add	6.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.26	
26 05 33 13-2251	EA		4" 90 Degree Angle Liquid Tight Connector.....	293.91	13.28
			For Work In Restricted Working Space, Add	9.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-2252			45 Degree Angle Connector (26 05 33 13-2218)		
26 05 33 13-2253	EA		3/8" 45 Degree Angle Liquid Tight Connector.....	15.11	4.18
			For Work In Restricted Working Space, Add	3.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 33 13-2254	EA		1/2" 45 Degree Angle Liquid Tight Connector.....	15.26	4.18
			For Work In Restricted Working Space, Add	3.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13	
26 05 33 13-2255	EA		3/4" 45 Degree Angle Liquid Tight Connector.....	18.02	4.55
			For Work In Restricted Working Space, Add	3.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.41	
26 05 33 13-2256	EA		1" 45 Degree Angle Liquid Tight Connector.....	27.07	5.31
			For Work In Restricted Working Space, Add	3.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.98	
26 05 33 13-2257	EA		1-1/4" 45 Degree Angle Liquid Tight Connector.....	30.77	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-2258	EA		1-1/2" 45 Degree Angle Liquid Tight Connector.....	34.47	6.07
			For Work In Restricted Working Space, Add	4.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55	
26 05 33 13-2259			Flexible Metallic Conduit And Connectors (26 05 33 13-2217)		
26 05 33 13-2260			Flexible Steel Conduit (26 05 33 13-2259)		
26 05 33 13-2261	LF		3/8" Flexible Metallic Conduit.....	3.58	1.24
			For Flexible Aluminum Conduit, Add	0.09	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.46	
			For Installation In Metal Stud Wall, Add	0.30	
			For Installation In Wood Stud Wall (Includes Drilling), Add	0.76	
			For Work In Restricted Working Space, Add	0.91	
26 05 33 13-2262	LF		1/2" Flexible Metallic Conduit.....	3.71	1.24
			For Flexible Aluminum Conduit, Add	0.10	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.47	
			For Installation In Metal Stud Wall, Add	0.31	
			For Installation In Wood Stud Wall (Includes Drilling), Add	0.78	
			For Work In Restricted Working Space, Add	0.94	
26 05 33 13-2263	LF		3/4" Flexible Metallic Conduit.....	4.19	1.66
			For Flexible Aluminum Conduit, Add	0.13	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.51	
			For Installation In Metal Stud Wall, Add	0.34	
			For Installation In Wood Stud Wall (Includes Drilling), Add	0.85	
			For Work In Restricted Working Space, Add	1.01	
26 05 33 13-2264	LF		1" Flexible Metallic Conduit.....	5.15	1.66
			For Flexible Aluminum Conduit, Add	0.25	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.55	
			For Installation In Metal Stud Wall, Add	0.36	
			For Installation In Wood Stud Wall (Includes Drilling), Add	0.91	
			For Work In Restricted Working Space, Add	1.09	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-2265	LF 1-1/4" Flexible Metallic Conduit		5.80		2.07
	For Flexible Aluminum Conduit, Add		0.32		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		0.58		
	For Installation In Metal Stud Wall, Add		0.38		
	For Installation In Wood Stud Wall (Includes Drilling), Add		0.96		
	For Work In Restricted Working Space, Add		1.15		
26 05 33 13-2266	LF 1-1/2" Flexible Metallic Conduit		7.44		2.49
	For Flexible Aluminum Conduit, Add		0.57		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		0.60		
	For Installation In Metal Stud Wall, Add		0.40		
	For Installation In Wood Stud Wall (Includes Drilling), Add		1.00		
	For Work In Restricted Working Space, Add		1.20		
26 05 33 13-2267	LF 2" Flexible Metallic Conduit.....		8.37		3.32
	For Flexible Aluminum Conduit, Add		0.70		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		0.62		
	For Installation In Metal Stud Wall, Add		0.42		
	For Installation In Wood Stud Wall (Includes Drilling), Add		1.04		
	For Work In Restricted Working Space, Add		1.25		
26 05 33 13-2268	LF 2-1/2" Flexible Steel Conduit		10.30		3.74
	For Flexible Aluminum Conduit, Add		0.84		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		0.78		
	For Installation In Metal Stud Wall, Add		0.52		
	For Installation In Wood Stud Wall (Includes Drilling), Add		1.30		
	For Work In Restricted Working Space, Add		1.56		
26 05 33 13-2269	LF 3" Flexible Metallic Conduit.....		15.09		4.57
	For Flexible Aluminum Conduit, Add		1.46		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		0.93		
	For Installation In Metal Stud Wall, Add		0.62		
	For Installation In Wood Stud Wall (Includes Drilling), Add		1.56		
	For Work In Restricted Working Space, Add		1.87		
26 05 33 13-2270	LF 3-1/2" Flexible Metallic Conduit		18.44		4.98
	For Flexible Aluminum Conduit, Add		1.84		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		1.09		
	For Installation In Metal Stud Wall, Add		0.73		
	For Installation In Wood Stud Wall (Includes Drilling), Add		1.82		
	For Work In Restricted Working Space, Add		2.18		
26 05 33 13-2271	LF 4" Flexible Metallic Conduit.....		21.20		5.81
	For Flexible Aluminum Conduit, Add		2.13		
	For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		1.25		
	For Installation In Metal Stud Wall, Add		0.83		
	For Installation In Wood Stud Wall (Includes Drilling), Add		2.08		
	For Work In Restricted Working Space, Add		2.49		
26 05 33 13-2272 Plain Squeeze Type Straight Connector (26 05 33 13-2269)					
26 05 33 13-2273	EA 3/8" Flexible Straight Connectors, Plain.....		6.03		3.32
	For Work In Restricted Working Space, Add		1.40		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1.40		
26 05 33 13-2274	EA 1/2" Flexible Straight Connectors, Plain.....		7.35		3.74
	For Work In Restricted Working Space, Add		1.56		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1.56		
26 05 33 13-2275	EA 3/4" Flexible Straight Connectors, Plain.....		8.50		4.57
	For Work In Restricted Working Space, Add		1.87		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1.87		
26 05 33 13-2276	EA 1" Flexible Straight Connectors, Plain.....		13.30		4.98
	For Work In Restricted Working Space, Add		2.49		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.49		
26 05 33 13-2277	EA 1-1/4" Flexible Straight Connectors, Plain		18.56		5.81
	For Work In Restricted Working Space, Add		3.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.11		
26 05 33 13-2278	EA 1-1/2" Flexible Straight Connectors, Plain		24.33		7.05
	For Work In Restricted Working Space, Add		3.89		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.89		
26 05 33 13-2279	EA 2" Flexible Straight Connectors, Plain.....		31.72		7.05
	For Work In Restricted Working Space, Add		4.67		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		4.67		
26 05 33 13-2280	EA 2-1/2" Flexible Straight Connectors, Plain		49.89		8.72
	For Work In Restricted Working Space, Add		5.45		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.45		
26 05 33 13-2281	EA 3" Flexible Straight Connectors, Plain.....		64.74		9.55
	For Work In Restricted Working Space, Add		6.23		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 05 33 13-2282	EA 3-1/2" Flexible Straight Connectors, Plain		193.47		11.21
	For Work In Restricted Working Space, Add		7.00		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.00		
26 05 33 13-2283	EA 4" Flexible Straight Connectors, Plain.....		241.17		13.69
	For Work In Restricted Working Space, Add		7.78		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.78		
26 05 33 13-2284 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-2259)					
26 05 33 13-2285	EA 1/2" Flexible Straight Connectors, Insulated.....		8.09		3.74
	For Work In Restricted Working Space, Add		1.56		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		1.56		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2286 EA 3/4" Flexible Straight Connectors, Insulated	9.47	4.57
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2287 EA 1" Flexible Straight Connectors, Insulated	14.62	4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2288 EA 1-1/4" Flexible Straight Connectors, Insulated	21.00	5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2289 EA 1-1/2" Flexible Straight Connectors, Insulated	28.67	6.22
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-2290 EA 2" Flexible Straight Connectors, Insulated	39.39	7.05
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2291 EA 2-1/2" Flexible Straight Connectors, Insulated	66.29	8.72
For Work In Restricted Working Space, Add	5.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.45	
26 05 33 13-2292 EA 3" Flexible Straight Connectors, Insulated	84.08	9.55
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2293 EA 3-1/2" Flexible Straight Connectors, Insulated	223.28	11.21
For Work In Restricted Working Space, Add	7.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.00	
26 05 33 13-2294 EA 4" Flexible Straight Connectors, Insulated	285.99	13.69
For Work In Restricted Working Space, Add	7.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 33 13-2295 Plain Squeeze Type 90 Degree Connector (26 05 33 13-2259)		
26 05 33 13-2296 EA 3/8" Flexible 90 Degree Connector, Plain	8.40	4.15
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2297 EA 1/2" Flexible 90 Degree Connector, Plain	10.91	4.57
For Work In Restricted Working Space, Add	2.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.18	
26 05 33 13-2298 EA 3/4" Flexible 90 Degree Connector, Plain	14.01	4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2299 EA 1" Flexible 90 Degree Connector, Plain	19.40	5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2300 EA 1-1/4" Flexible 90 Degree Connector, Plain	29.57	6.22
For Work In Restricted Working Space, Add	3.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-2301 EA 1-1/2" Flexible 90 Degree Connector, Plain	45.49	7.26
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2302 EA 2" Flexible 90 Degree Connector, Plain	54.64	8.93
For Work In Restricted Working Space, Add	5.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.29	
26 05 33 13-2303 EA 2-1/2" Flexible 90 Degree Connector, Plain	117.19	9.55
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2304 EA 3" Flexible 90 Degree Connector, Plain	149.95	11.21
For Work In Restricted Working Space, Add	7.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.00	
26 05 33 13-2305 EA 3-1/2" Flexible 90 Degree Connector, Plain	313.86	13.69
For Work In Restricted Working Space, Add	7.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 33 13-2306 EA 4" Flexible 90 Degree Connector, Plain	557.98	15.57
For Work In Restricted Working Space, Add	9.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 33 13-2307 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-2259)		
26 05 33 13-2308 EA 1/2" Flexible 90 Degree Connector, Insulated	11.94	4.57
For Work In Restricted Working Space, Add	2.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.18	
26 05 33 13-2309 EA 3/4" Flexible 90 Degree Connector, Insulated	15.29	4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2310 EA 1" Flexible 90 Degree Connector, Insulated	19.40	5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2311 EA 1-1/4" Flexible 90 Degree Connector, Insulated	34.09	6.22
For Work In Restricted Working Space, Add	3.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-2312 EA 1-1/2" Flexible 90 Degree Connector, Insulated	53.71	7.26
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2313 EA 2" Flexible 90 Degree Connector, Insulated	68.00	8.93
For Work In Restricted Working Space, Add	5.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.29	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2314 EA 2-1/2" Flexible 90 Degree Connector, Insulated158.96		9.55
For Work In Restricted Working Space, Add	6.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-2315 EA 3" Flexible 90 Degree Connector, Insulated .....195.20		11.21
For Work In Restricted Working Space, Add	7.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.00	
26 05 33 13-2316 EA 3-1/2" Flexible 90 Degree Connector, Insulated .....518.95		13.69
For Work In Restricted Working Space, Add	7.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 33 13-2317 EA 4" Flexible 90 Degree Connector, Insulated .....772.80		15.57
For Work In Restricted Working Space, Add	9.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 05 33 13-2318 Plain Squeeze Type 45 Degree Connector (26 05 33 13-2259)		
26 05 33 13-2319 EA 3/8" Flexible 45 Degree Connector, Plain .....9.23		4.15
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2320 EA 1/2" Flexible 45 Degree Connector, Plain .....12.24		4.57
For Work In Restricted Working Space, Add	2.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.18	
26 05 33 13-2321 EA 3/4" Flexible 45 Degree Connector, Plain .....15.50		4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2322 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-2259)		
26 05 33 13-2323 EA 3/8" Flexible 45 Degree Connector, Insulated .....9.81		4.98
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2324 EA 1/2" Flexible 45 Degree Connector, Insulated .....13.19		4.57
For Work In Restricted Working Space, Add	2.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.18	
26 05 33 13-2325 EA 3/4" Flexible 45 Degree Connector, Insulated .....16.84		4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2326 Plain Screw-In Connector (26 05 33 13-2259)		
26 05 33 13-2327 EA 3/8" Flexible Steel Screw-in Connector, Plain .....5.17		3.32
For Work In Restricted Working Space, Add	1.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.40	
26 05 33 13-2328 EA 1/2" Flexible Steel Screw-in Connector, Plain .....5.61		3.74
For Work In Restricted Working Space, Add	1.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.56	
26 05 33 13-2329 EA 3/4" Flexible Steel Screw-in Connector, Plain .....7.07		4.57
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2330 EA 1" Flexible Steel Screw-in Connector, Plain .....10.01		4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2331 EA 1-1/4" Flexible Steel Screw-in Connector, Plain .....14.37		5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2332 EA 1-1/2" Flexible Steel Screw-in Connector, Plain .....17.62		6.22
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-2333 EA 2" Flexible Steel Screw-in Connector, Plain .....25.22		7.05
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2334 Insulated Screw-In Connector (26 05 33 13-2259)		
26 05 33 13-2335 EA 3/8" Flexible Steel Screw-in Connector, Insulated .....5.42		3.32
For Work In Restricted Working Space, Add	1.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.40	
26 05 33 13-2336 EA 1/2" Flexible Steel Screw-in Connector, Insulated .....5.80		3.74
For Work In Restricted Working Space, Add	1.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.56	
26 05 33 13-2337 EA 3/4" Flexible Steel Screw-in Connector, Insulated .....7.57		4.57
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2338 EA 1" Flexible Steel Screw-in Connector, Insulated .....10.78		4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2339 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated .....15.47		5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2340 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated .....18.93		6.22
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-2341 EA 2" Flexible Steel Screw-in Connector, Insulated .....26.38		7.05
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2342 Screw-In Coupling (26 05 33 13-2259)		
26 05 33 13-2343 EA 3/8" Flexible Steel Screw-in Coupling	6.09	3.74
For Work In Restricted Working Space, Add	1.56	
26 05 33 13-2344 EA 3/4" Flexible Steel Screw-in Coupling	7.87	4.57
For Work In Restricted Working Space, Add	1.87	
26 05 33 13-2345 Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-2259)		
26 05 33 13-2346 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	7.74	3.32
For Work In Restricted Working Space, Add	1.40	
26 05 33 13-2347 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	10.30	3.74
For Work In Restricted Working Space, Add	1.56	
26 05 33 13-2348 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	13.49	4.57
For Work In Restricted Working Space, Add	1.87	
26 05 33 13-2349 Die Cast Squeeze Type Straight Connector (26 05 33 13-2259)		
26 05 33 13-2350 EA 3/8" Flexible Straight Connector, Die Cast	5.33	3.32
For Work In Restricted Working Space, Add	1.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.40	
26 05 33 13-2351 EA 1/2" Flexible Straight Connector, Die Cast	6.01	3.74
For Work In Restricted Working Space, Add	1.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.56	
26 05 33 13-2352 EA 3/4" Flexible Straight Connector, Die Cast	7.41	4.57
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2353 EA 1" Flexible Straight Connector, Die Cast	10.95	4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2354 EA 1-1/4" Flexible Straight Connector, Die Cast	14.60	5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2355 EA 1-1/2" Flexible Straight Connector, Die Cast	19.60	6.22
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-2356 EA 2" Flexible Straight Connector, Die Cast	25.11	7.05
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2357 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-2259)		
26 05 33 13-2358 EA 3/8" Flexible 90 Degree Connector, Die Cast	7.06	4.15
For Work In Restricted Working Space, Add	1.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.87	
26 05 33 13-2359 EA 1/2" Flexible 90 Degree Connector, Die Cast	8.66	4.57
For Work In Restricted Working Space, Add	2.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.18	
26 05 33 13-2360 EA 3/4" Flexible 90 Degree Connector, Die Cast	10.42	4.98
For Work In Restricted Working Space, Add	2.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-2361 EA 1" Flexible 90 Degree Connector, Die Cast	15.98	5.81
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2362 EA 1-1/4" Flexible 90 Degree Connector, Die Cast	22.22	6.22
For Work In Restricted Working Space, Add	3.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-2363 EA 1-1/2" Flexible 90 Degree Connector, Die Cast	33.81	7.26
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2364 EA 2" Flexible 90 Degree Connector, Die Cast	40.23	8.93
For Work In Restricted Working Space, Add	5.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.29	
26 05 33 13-2365 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-2217)		
26 05 33 13-2366 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2365)		
26 05 33 13-2367 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit	3.45	1.14
For Work In Restricted Working Space, Add	0.86	
26 05 33 13-2368 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit	3.50	1.14
For Work In Restricted Working Space, Add	0.86	
26 05 33 13-2369 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit	4.70	1.51
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-2370 LF 1" Flexible Liquid Tight Non-Metallic Conduit	5.63	1.51
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-2371 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit	7.12	1.89
For Work In Restricted Working Space, Add	1.42	
26 05 33 13-2372 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit	9.00	2.27
For Work In Restricted Working Space, Add	1.71	
26 05 33 13-2373 LF 2" Flexible Liquid Tight Non-Metallic Conduit	11.62	3.04
For Work In Restricted Working Space, Add	2.28	



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-2374 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2365)				
26 05 33 13-2375	EA 3/8" Liquid Tight Non-Metallic Straight Connector	9.81		3.04
	For Work In Restricted Working Space, Add	2.28		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28		
26 05 33 13-2376	EA 1/2" Liquid Tight Non-Metallic Straight Connector	9.81		3.04
	For Work In Restricted Working Space, Add	2.28		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.28		
26 05 33 13-2377	EA 3/4" Liquid Tight Non-Metallic Straight Connector	11.83		3.42
	For Work In Restricted Working Space, Add	2.56		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.56		
26 05 33 13-2378	EA 1" Liquid Tight Non-Metallic Straight Connector	14.43		3.80
	For Work In Restricted Working Space, Add	2.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85		
26 05 33 13-2379	EA 1-1/4" Liquid Tight Non-Metallic Straight Connector	19.30		4.18
	For Work In Restricted Working Space, Add	3.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13		
26 05 33 13-2380	EA 1-1/2" Liquid Tight Non-Metallic Straight Connector	23.73		4.55
	For Work In Restricted Working Space, Add	3.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.41		
26 05 33 13-2381	EA 2" Liquid Tight Non-Metallic Straight Connector	35.93		5.31
	For Work In Restricted Working Space, Add	3.98		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.98		
26 05 33 13-2382 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2365)				
26 05 33 13-2383	EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector	14.05		4.18
	For Work In Restricted Working Space, Add	3.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13		
26 05 33 13-2384	EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector	14.05		4.18
	For Work In Restricted Working Space, Add	3.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13		
26 05 33 13-2385	EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector	16.94		4.55
	For Work In Restricted Working Space, Add	3.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.41		
26 05 33 13-2386	EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector	23.32		5.31
	For Work In Restricted Working Space, Add	3.98		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.98		
26 05 33 13-2387	EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector	24.22		5.69
	For Work In Restricted Working Space, Add	4.27		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-2388	EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector	36.60		6.07
	For Work In Restricted Working Space, Add	4.55		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55		
26 05 33 13-2389	EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector	48.42		6.83
	For Work In Restricted Working Space, Add	5.12		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12		
26 05 33 13-2390 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-2365)				
26 05 33 13-2391	EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector	14.05		4.18
	For Work In Restricted Working Space, Add	3.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13		
26 05 33 13-2392	EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector	14.05		4.18
	For Work In Restricted Working Space, Add	3.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.13		
26 05 33 13-2393	EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector	16.94		4.55
	For Work In Restricted Working Space, Add	3.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.41		
26 05 33 13-2394	EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector	23.32		5.31
	For Work In Restricted Working Space, Add	3.98		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.98		
26 05 33 13-2395	EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector	24.22		5.69
	For Work In Restricted Working Space, Add	4.27		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27		
26 05 33 13-2396	EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector	36.60		6.07
	For Work In Restricted Working Space, Add	4.55		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.55		
26 05 33 13-2397	EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector	48.42		6.83
	For Work In Restricted Working Space, Add	5.12		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.12		
26 05 33 13-2398 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2217)				
Note: Carlon - FLEX-PLUS.				
26 05 33 13-2399 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2398)				
26 05 33 13-2400	LF 1/2" Blue ENT Electrical Non-Metallic Tubing	3.38		1.24
	For Work In Restricted Working Space, Add	0.94		
26 05 33 13-2401	LF 3/4" Blue ENT Electrical Non-Metallic Tubing	4.51		1.66
	For Work In Restricted Working Space, Add	1.25		
26 05 33 13-2402	LF 1" Blue ENT Electrical Non-Metallic Tubing	4.73		1.66
	For Work In Restricted Working Space, Add	1.25		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 33 13-2403	Terminal Adapter (26 05 33 13-2398)				
26 05 33 13-2404	EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	8.73		3.32	
	For Work In Restricted Working Space, Add	2.49			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49			
26 05 33 13-2405	EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	10.12		3.74	
	For Work In Restricted Working Space, Add	2.80			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.80			
26 05 33 13-2406	EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	11.38		4.15	
	For Work In Restricted Working Space, Add	3.11			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11			
26 05 33 13-2407	Coupling (26 05 33 13-2398)				
26 05 33 13-2408	EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	8.67		3.32	
	For Work In Restricted Working Space, Add	2.49			
26 05 33 13-2409	EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	9.82		3.74	
	For Work In Restricted Working Space, Add	2.80			
26 05 33 13-2410	EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	11.10		4.15	
	For Work In Restricted Working Space, Add	3.11			
26 05 33 13-2411	Conduit Bodies (26 05 33 13-0040)				
26 05 33 13-2412	Threaded, Cast Aluminum Conduit Body (26 05 33 13-2411)				
26 05 33 13-2413	Type LB, Threaded, Two Hub Cast Aluminum Conduit Body (26 05 33 13-2412)				
26 05 33 13-2414	EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	52.53		18.22	
	For Mogul LB, Add	2.97			
	For Work In Restricted Working Space, Add	13.66			
	For Installation Above 14', Add	6.83			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66			
26 05 33 13-2415	EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	61.68		20.87	
	For Mogul LB, Add	4.52			
	For Work In Restricted Working Space, Add	15.65			
	For Installation Above 14', Add	7.83			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65			
26 05 33 13-2416	EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	74.24		24.28	
	For Mogul LB, Add	7.12			
	For Work In Restricted Working Space, Add	18.21			
	For Installation Above 14', Add	9.11			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.21			
26 05 33 13-2417	EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	89.46		27.70	
	For Mogul LB, Add	11.70			
	For Work In Restricted Working Space, Add	20.77			
	For Installation Above 14', Add	10.39			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.77			
26 05 33 13-2418	EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	101.97		30.35	
	For Mogul LB, Add	15.77			
	For Work In Restricted Working Space, Add	22.77			
	For Installation Above 14', Add	11.38			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77			
26 05 33 13-2419	EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	133.20		36.42	
	For Mogul LB, Add	27.04			
	For Work In Restricted Working Space, Add	27.32			
	For Installation Above 14', Add	13.66			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.32			
26 05 33 13-2420	EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	221.29		51.23	
	For Mogul LB, Add	63.53			
	For Work In Restricted Working Space, Add	38.42			
	For Installation Above 14', Add	19.21			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.42			
26 05 33 13-2421	EA 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	291.13		68.30	
	For Mogul LB, Add	81.76			
	For Work In Restricted Working Space, Add	51.22			
	For Installation Above 14', Add	25.61			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.22			
26 05 33 13-2422	EA 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	385.61		85.38	
	For Mogul LB, Add	118.46			
	For Work In Restricted Working Space, Add	64.03			
	For Installation Above 14', Add	32.01			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.03			
26 05 33 13-2423	EA 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	499.16		103.96	
	For Mogul LB, Add	166.44			
	For Work In Restricted Working Space, Add	77.97			
	For Installation Above 14', Add	38.99			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.97			
26 05 33 13-2424	Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2412)				



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2425 EA 1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.39 3.62 13.66 6.83 13.66	18.22
26 05 33 13-2426 EA 3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.51 5.15 15.65 7.83 15.65	20.87
26 05 33 13-2427 EA 1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.91 8.37 18.21 9.11 18.21	24.28
26 05 33 13-2428 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.50 13.23 20.77 10.39 20.77	27.70
26 05 33 13-2429 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.44 18.37 22.77 11.38 22.77	30.35
26 05 33 13-2430 EA 2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.65 32.63 27.32 13.66 27.32	36.42
26 05 33 13-2431 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	217.53 60.71 38.42 19.21 38.42	51.23
26 05 33 13-2432 EA 3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.49 72.28 51.22 25.61 51.22	68.30
26 05 33 13-2433 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	396.38 126.54 64.03 32.01 64.03	85.38
26 05 33 13-2434 EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover For Mogul LB, Add For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	521.18 182.96 77.97 38.99 77.97	103.96
26 05 33 13-2435 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2412)		
26 05 33 13-2436 EA 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.46 15.65 7.83 15.65	20.87
26 05 33 13-2437 EA 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.66 18.21 9.11 18.21	24.28
26 05 33 13-2438 EA 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.32 19.92 9.96 19.92	26.56
26 05 33 13-2439 EA 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.54 22.77 11.38 22.77	30.35
26 05 33 13-2440 EA 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	116.80 25.04 12.52 25.04	33.39
26 05 33 13-2441 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	154.71 29.31 14.66 29.31	39.08
26 05 33 13-2442 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	243.01 42.68 21.34 42.68	56.92
26 05 33 13-2443 EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	314.10 55.49 27.75 55.49	73.99

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2444	EA		3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	495.85	91.07
			For Work In Restricted Working Space, Add	68.30	
			For Installation Above 14', Add	34.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.30	
26 05 33 13-2445	EA		4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	569.42	109.66
			For Work In Restricted Working Space, Add	82.24	
			For Installation Above 14', Add	41.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.24	
26 05 33 13-2446 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2412)					
26 05 33 13-2447	EA		1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	53.56	18.22
			For Work In Restricted Working Space, Add	13.66	
			For Installation Above 14', Add	6.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 05 33 13-2448	EA		3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	61.92	20.87
			For Work In Restricted Working Space, Add	15.65	
			For Installation Above 14', Add	7.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-2449	EA		1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	74.29	23.91
			For Work In Restricted Working Space, Add	17.93	
			For Installation Above 14', Add	8.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.93	
26 05 33 13-2450	EA		1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	90.68	27.70
			For Work In Restricted Working Space, Add	20.77	
			For Installation Above 14', Add	10.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.77	
26 05 33 13-2451	EA		1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	101.40	30.35
			For Work In Restricted Working Space, Add	22.77	
			For Installation Above 14', Add	11.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2452	EA		2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	133.26	36.42
			For Work In Restricted Working Space, Add	27.32	
			For Installation Above 14', Add	13.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.32	
26 05 33 13-2453	EA		2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	214.37	51.23
			For Work In Restricted Working Space, Add	38.42	
			For Installation Above 14', Add	19.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.42	
26 05 33 13-2454	EA		3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	276.47	68.30
			For Work In Restricted Working Space, Add	51.22	
			For Installation Above 14', Add	25.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.22	
26 05 33 13-2455	EA		3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	389.90	85.38
			For Work In Restricted Working Space, Add	64.03	
			For Installation Above 14', Add	32.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.03	
26 05 33 13-2456	EA		4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	501.18	103.96
			For Work In Restricted Working Space, Add	77.97	
			For Installation Above 14', Add	38.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.97	
26 05 33 13-2457 Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2412)					
26 05 33 13-2458	EA		1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	71.16	23.91
			For Work In Restricted Working Space, Add	17.93	
			For Installation Above 14', Add	8.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.93	
26 05 33 13-2459	EA		3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	81.82	26.56
			For Work In Restricted Working Space, Add	19.92	
			For Installation Above 14', Add	9.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.92	
26 05 33 13-2460	EA		1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	99.12	29.22
			For Work In Restricted Working Space, Add	21.91	
			For Installation Above 14', Add	10.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.91	
26 05 33 13-2461	EA		1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	114.18	33.39
			For Work In Restricted Working Space, Add	25.04	
			For Installation Above 14', Add	12.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 05 33 13-2462	EA		1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	144.86	36.42
			For Work In Restricted Working Space, Add	27.32	
			For Installation Above 14', Add	13.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.32	
26 05 33 13-2463	EA		2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	175.36	44.77
			For Work In Restricted Working Space, Add	33.58	
			For Installation Above 14', Add	16.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.58	
26 05 33 13-2464	EA		2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	321.49	65.64
			For Work In Restricted Working Space, Add	49.23	
			For Installation Above 14', Add	24.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.23	



		Electrical	26
		Common Work Results For Electrical	26 05
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2465	EA	3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	397.80	85.38
		For Work In Restricted Working Space, Add	64.03	
		For Installation Above 14', Add	32.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.03	
26 05 33 13-2466	EA	3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	562.96	105.48
		For Work In Restricted Working Space, Add	79.68	
		For Installation Above 14', Add	39.84	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.68	
26 05 33 13-2467	EA	4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	679.57	126.73
		For Work In Restricted Working Space, Add	95.05	
		For Installation Above 14', Add	47.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.05	
26 05 33 13-2468		Threaded, Malleable Iron Conduit Body (26 05 33 13-2411)		
26 05 33 13-2469		Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2468)		
26 05 33 13-2470	EA	1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	54.92	18.22
		For Work In Restricted Working Space, Add	13.66	
		For Installation Above 14', Add	6.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 05 33 13-2471	EA	3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	63.68	20.87
		For Work In Restricted Working Space, Add	15.65	
		For Installation Above 14', Add	7.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-2472	EA	1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	77.85	24.28
		For Work In Restricted Working Space, Add	18.21	
		For Installation Above 14', Add	9.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.21	
26 05 33 13-2473	EA	1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	100.01	27.70
		For Work In Restricted Working Space, Add	20.77	
		For Installation Above 14', Add	10.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.77	
26 05 33 13-2474	EA	1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	113.63	30.35
		For Work In Restricted Working Space, Add	22.77	
		For Installation Above 14', Add	11.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2475	EA	2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	154.24	36.42
		For Work In Restricted Working Space, Add	27.32	
		For Installation Above 14', Add	13.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.32	
26 05 33 13-2476	EA	2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	257.36	51.23
		For Work In Restricted Working Space, Add	38.42	
		For Installation Above 14', Add	19.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.42	
26 05 33 13-2477	EA	3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	363.63	68.30
		For Work In Restricted Working Space, Add	51.23	
		For Installation Above 14', Add	25.61	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	
26 05 33 13-2478	EA	3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	498.98	85.38
		For Work In Restricted Working Space, Add	64.03	
		For Installation Above 14', Add	32.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.03	
26 05 33 13-2479	EA	4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	597.58	103.96
		For Work In Restricted Working Space, Add	77.97	
		For Installation Above 14', Add	38.99	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.97	
26 05 33 13-2480		Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2468)		
26 05 33 13-2481	EA	1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	57.09	18.22
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 05 33 13-2482	EA	3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	64.32	20.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-2483	EA	1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	81.17	24.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.21	
26 05 33 13-2484	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	102.23	27.70
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.77	
26 05 33 13-2485	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	116.35	30.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2486	EA	2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	148.66	36.42
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.32	
26 05 33 13-2487	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	226.35	51.23
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.42	
26 05 33 13-2488	EA	3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	307.88	68.30
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	
26 05 33 13-2489	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	531.81	85.38
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.03	
26 05 33 13-2490	EA	4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	621.79	103.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.97	
26 05 33 13-2491		Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2468)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2492 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	67.67	20.87
For Work In Restricted Working Space, Add	15.65	
For Installation Above 14', Add	7.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-2493 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	79.79	24.28
For Work In Restricted Working Space, Add	18.50	
For Installation Above 14', Add	9.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 05 33 13-2494 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	93.81	26.56
For Work In Restricted Working Space, Add	19.92	
For Installation Above 14', Add	9.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.92	
26 05 33 13-2495 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	117.40	30.35
For Work In Restricted Working Space, Add	22.48	
For Installation Above 14', Add	11.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.48	
26 05 33 13-2496 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	134.51	33.39
For Work In Restricted Working Space, Add	25.04	
For Installation Above 14', Add	12.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 05 33 13-2497 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	177.66	39.08
For Work In Restricted Working Space, Add	29.31	
For Installation Above 14', Add	14.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.31	
26 05 33 13-2498 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	226.17	56.92
For Work In Restricted Working Space, Add	42.68	
For Installation Above 14', Add	21.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.68	
26 05 33 13-2499 EA 3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	324.38	73.99
For Work In Restricted Working Space, Add	55.49	
For Installation Above 14', Add	27.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.49	
26 05 33 13-2500 EA 3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	561.21	91.07
For Work In Restricted Working Space, Add	68.30	
For Installation Above 14', Add	34.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.30	
26 05 33 13-2501 EA 4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	650.07	109.66
For Work In Restricted Working Space, Add	82.52	
For Installation Above 14', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.52	
26 05 33 13-2502 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2498)		
26 05 33 13-2503 EA 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	55.08	18.22
For Work In Restricted Working Space, Add	13.66	
For Installation Above 14', Add	6.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 05 33 13-2504 EA 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	66.50	20.87
For Work In Restricted Working Space, Add	15.65	
For Installation Above 14', Add	7.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.65	
26 05 33 13-2505 EA 1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	77.69	23.91
For Work In Restricted Working Space, Add	17.93	
For Installation Above 14', Add	8.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.93	
26 05 33 13-2506 EA 1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	104.11	27.70
For Work In Restricted Working Space, Add	20.78	
For Installation Above 14', Add	10.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.78	
26 05 33 13-2507 EA 1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	121.31	30.35
For Work In Restricted Working Space, Add	22.77	
For Installation Above 14', Add	11.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2508 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	156.43	36.42
For Work In Restricted Working Space, Add	27.32	
For Installation Above 14', Add	13.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.32	
26 05 33 13-2509 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	352.46	96.09
For Work In Restricted Working Space, Add	72.04	
For Installation Above 14', Add	36.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.04	
26 05 33 13-2510 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	331.30	68.30
For Work In Restricted Working Space, Add	51.23	
For Installation Above 14', Add	25.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.23	
26 05 33 13-2511 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	531.81	85.38
For Work In Restricted Working Space, Add	64.03	
For Installation Above 14', Add	32.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.03	
26 05 33 13-2512 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	621.77	103.96
For Work In Restricted Working Space, Add	77.97	
For Installation Above 14', Add	38.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.97	



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Raceway And Boxes For Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2513			Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2468)		
26 05 33 13-2514	EA		1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 76.94		23.91
			For Work In Restricted Working Space, Add 17.93		
			For Installation Above 14', Add 8.96		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 17.93		
26 05 33 13-2515	EA		3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 84.22		26.56
			For Work In Restricted Working Space, Add 19.92		
			For Installation Above 14', Add 9.96		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 19.92		
26 05 33 13-2516	EA		1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 97.50		29.22
			For Work In Restricted Working Space, Add 21.91		
			For Installation Above 14', Add 10.96		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 21.91		
26 05 33 13-2517	EA		1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 115.76		33.39
			For Work In Restricted Working Space, Add 25.04		
			For Installation Above 14', Add 12.52		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 25.04		
26 05 33 13-2518	EA		1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 133.21		36.42
			For Work In Restricted Working Space, Add 27.32		
			For Installation Above 14', Add 13.66		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 27.32		
26 05 33 13-2519	EA		2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 185.29		44.77
			For Work In Restricted Working Space, Add 33.58		
			For Installation Above 14', Add 16.79		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 33.58		
26 05 33 13-2520	EA		2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 295.08		65.64
			For Work In Restricted Working Space, Add 49.23		
			For Installation Above 14', Add 24.62		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 49.23		
26 05 33 13-2521	EA		3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 431.08		85.38
			For Work In Restricted Working Space, Add 64.03		
			For Installation Above 14', Add 32.01		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 64.03		
26 05 33 13-2522	EA		3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 640.07		105.48
			For Work In Restricted Working Space, Add 79.11		
			For Installation Above 14', Add 39.56		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 79.11		
26 05 33 13-2523	EA		4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover 716.43		126.73
			For Work In Restricted Working Space, Add 95.05		
			For Installation Above 14', Add 47.52		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 95.05		
26 05 33 13-2524			Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2411)		
26 05 33 13-2525			Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2524)		
26 05 33 13-2526	EA		1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 26.18		7.20
			For Work In Restricted Working Space, Add 5.41		
			For Installation Above 14', Add 2.70		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 5.41		
26 05 33 13-2527	EA		3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 33.51		9.49
			For Work In Restricted Working Space, Add 7.12		
			For Installation Above 14', Add 3.56		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.12		
26 05 33 13-2528	EA		1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 45.22		11.76
			For Work In Restricted Working Space, Add 8.82		
			For Installation Above 14', Add 4.41		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 8.82		
26 05 33 13-2529	EA		1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 58.53		14.42
			For Work In Restricted Working Space, Add 10.81		
			For Installation Above 14', Add 5.41		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 10.81		
26 05 33 13-2530	EA		1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 76.72		16.69
			For Work In Restricted Working Space, Add 12.52		
			For Installation Above 14', Add 6.26		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 12.52		
26 05 33 13-2531	EA		2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 101.27		18.97
			For Work In Restricted Working Space, Add 14.23		
			For Installation Above 14', Add 7.11		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 14.23		
26 05 33 13-2532			Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2524)		
26 05 33 13-2533	EA		1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 26.40		7.20
			For Work In Restricted Working Space, Add 5.41		
			For Installation Above 14', Add 2.70		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 5.41		
26 05 33 13-2534	EA		3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 34.38		9.49
			For Work In Restricted Working Space, Add 7.12		
			For Installation Above 14', Add 3.56		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 7.12		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2535 EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.23 8.82 4.41 8.82	11.76
26 05 33 13-2536 EA 1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.28 10.81 5.41 10.81	14.42
26 05 33 13-2537 EA 1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.75 12.52 6.26 12.52	16.69
26 05 33 13-2538 EA 2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.84 14.23 7.11 14.23	18.97
26 05 33 13-2539 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2524)		
26 05 33 13-2540 EA 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.98 7.12 3.56 7.12	9.49
26 05 33 13-2541 EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.20 8.82 4.41 8.82	11.76
26 05 33 13-2542 EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.32 10.81 5.41 10.81	14.42
26 05 33 13-2543 EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.47 13.09 6.54 13.09	16.69
26 05 33 13-2544 EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.00 15.37 7.68 15.37	18.97
26 05 33 13-2545 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.02 17.64 8.82 17.64	21.24
26 05 33 13-2546 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2524)		
26 05 33 13-2547 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.13 5.41 2.70 5.41	7.20
26 05 33 13-2548 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.28 7.12 3.56 7.12	9.49
26 05 33 13-2549 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.31 8.82 4.41 8.82	11.76
26 05 33 13-2550 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.83 10.81 5.41 10.81	14.42
26 05 33 13-2551 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.32 12.52 6.26 12.52	16.69
26 05 33 13-2552 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Installation Above 14', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.15 14.23 7.11 14.23	18.97
26 05 33 13-2553 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) ^(26 05 33 13-2411)		
26 05 33 13-2554 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.57 15.60	20.77
26 05 33 13-2555 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	344.78 28.83	38.42
26 05 33 13-2556 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	667.17 58.48	77.97
26 05 33 13-2557 Replacement Covers And Gaskets For Conduit Body ^(26 05 33 13-2411)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2558 Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2557)		
26 05 33 13-2559 EA 1/2" Replacement Stamped Aluminum Conduit Body Cover	9.69	3.70
26 05 33 13-2560 EA 3/4" Replacement Stamped Aluminum Conduit Body Cover	11.84	4.32
26 05 33 13-2561 EA 1" Replacement Stamped Aluminum Conduit Body Cover	15.17	5.55
26 05 33 13-2562 EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover	18.47	6.78
26 05 33 13-2563 EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover	22.67	8.02
26 05 33 13-2564 EA 2" Replacement Stamped Aluminum Conduit Body Cover	26.86	9.25
26 05 33 13-2565 EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover	35.42	10.48
26 05 33 13-2566 EA 3" Replacement Stamped Aluminum Conduit Body Cover	45.91	14.80
26 05 33 13-2567 EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover	49.85	16.64
26 05 33 13-2568 EA 4" Replacement Stamped Aluminum Conduit Body Cover	62.81	20.96
26 05 33 13-2569 Replacement Cast Steel Conduit Body Cover (26 05 33 13-2557)		
26 05 33 13-2570 EA 1/2" Replacement Cast Steel Conduit Body Cover	11.26	3.70
26 05 33 13-2571 EA 3/4" Replacement Cast Steel Conduit Body Cover	13.20	4.32
26 05 33 13-2572 EA 1" Replacement Cast Steel Conduit Body Cover	18.53	5.55
26 05 33 13-2573 EA 1-1/4" Replacement Cast Steel Conduit Body Cover	23.02	6.78
26 05 33 13-2574 EA 1-1/2" Replacement Cast Steel Conduit Body Cover	27.97	8.02
26 05 33 13-2575 EA 2" Replacement Cast Steel Conduit Body Cover	32.92	9.25
26 05 33 13-2576 EA 2-1/2" Replacement Cast Steel Conduit Body Cover	37.83	10.48
26 05 33 13-2577 EA 3" Replacement Cast Steel Conduit Body Cover	51.59	14.80
26 05 33 13-2578 EA 3-1/2" Replacement Cast Steel Conduit Body Cover	58.81	16.64
26 05 33 13-2579 EA 4" Replacement Cast Steel Conduit Body Cover	74.14	20.96
26 05 33 13-2580 Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2557)		
26 05 33 13-2581 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket	8.99	3.70
26 05 33 13-2582 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket	10.27	4.32
26 05 33 13-2583 EA 1" Replacement Velbuna Composition Conduit Body Gasket	13.42	5.55
26 05 33 13-2584 EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket	17.42	6.78
26 05 33 13-2585 EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket	19.88	8.02
26 05 33 13-2586 EA 2" Replacement Velbuna Composition Conduit Body Gasket	23.64	9.25
26 05 33 13-2587 EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket	31.01	10.48
26 05 33 13-2588 EA 3" Replacement Velbuna Composition Conduit Body Gasket	40.40	14.80
26 05 33 13-2589 EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket	44.64	16.64
26 05 33 13-2590 EA 4" Replacement Velbuna Composition Conduit Body Gasket	53.18	20.96
26 05 33 13-2591 Replacement Neoprene Conduit Body Gasket (26 05 33 13-2557)		
26 05 33 13-2592 EA 1/2" Replacement Neoprene Conduit Body Gasket	10.08	3.70
26 05 33 13-2593 EA 3/4" Replacement Neoprene Conduit Body Gasket	11.31	4.32
26 05 33 13-2594 EA 1" Replacement Neoprene Conduit Body Gasket	14.78	5.55
26 05 33 13-2595 EA 1-1/4" Replacement Neoprene Conduit Body Gasket	18.11	6.78
26 05 33 13-2596 EA 1-1/2" Replacement Neoprene Conduit Body Gasket	20.57	8.02
26 05 33 13-2597 EA 2" Replacement Neoprene Conduit Body Gasket	23.71	9.25
26 05 33 13-2598 EA 2-1/2" Replacement Neoprene Conduit Body Gasket	31.18	10.48
26 05 33 13-2599 EA 3" Replacement Neoprene Conduit Body Gasket	40.57	14.80
26 05 33 13-2600 EA 3-1/2" Replacement Neoprene Conduit Body Gasket	45.79	16.64
26 05 33 13-2601 EA 4" Replacement Neoprene Conduit Body Gasket	54.33	20.96
26 05 33 16 Boxes For Electrical Systems (26 05 33)		
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.		
26 05 33 16-0001 Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0131 for steel box/switch assemblies.		
26 05 33 16-0002 4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003 EA 1-1/2" Depth, 4" Square Steel Box.....	33.02	15.57
For Stud Bracket, Add	0.46	
26 05 33 16-0004 EA 2-1/8" Depth, 4" Square Steel Box.....	33.87	15.57
For Stud Bracket, Add	0.83	
26 05 33 16-0005 EA 3-1/2" Depth, 4" Square Steel Box.....	36.82	15.57
For Stud Bracket, Add	0.91	
26 05 33 16-0006 EA 1-1/2" Depth, 4" Square Steel Extension Ring.....	24.95	10.38
26 05 33 16-0007 EA 2-1/8" Depth, 4" Square Steel Extension Ring.....	21.97	10.38
26 05 33 16-0008 EA 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	11.28	5.19
26 05 33 16-0009 EA 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	11.42	5.19
26 05 33 16-0010 EA 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	11.52	5.19
26 05 33 16-0011 EA 1" Depth, 1 Gang, 4" Square Steel Mud Ring	11.83	5.19
26 05 33 16-0012 EA 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	11.93	5.19
26 05 33 16-0013 EA 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	12.95	5.19
26 05 33 16-0014 EA 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	11.67	5.19
26 05 33 16-0015 EA 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	11.76	5.19
26 05 33 16-0016 EA 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	11.89	5.19
26 05 33 16-0017 EA 1" Depth, 2 Gang, 4" Square Steel Mud Ring	12.93	5.19
26 05 33 16-0018 EA 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring	13.14	5.19
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	14.47	5.19
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	12.17	5.19

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	13.02	5.19
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	11.65	5.19
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	11.73	5.19
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	11.63	5.19
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	11.86	5.19
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	12.04	5.19
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	14.38	5.19
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.01	5.19
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	14.38	5.19
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.01	5.19
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	12.56	5.19
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	14.38	5.19
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	14.38	5.19
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover.....	10.98	5.19
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	36.19	15.57
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	34.25	15.57
For Stud Bracket, Add	0.44	
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	43.99	15.57
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	25.76	10.38
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	26.23	10.38
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	13.22	5.19
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	13.24	5.19
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	14.07	5.19
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	13.74	5.19
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	13.66	5.19
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.10	5.19
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	13.88	5.19
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	14.06	5.19
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	14.07	5.19
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	15.29	5.19
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	15.54	5.19
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	18.49	5.19
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	13.72	5.19
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	13.80	5.19
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	16.09	5.19
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	16.73	5.19
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	15.90	5.19
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	15.20	5.19
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	17.53	5.19
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	16.72	5.19
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	16.72	5.19
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	16.72	5.19
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover.....	11.51	5.19
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	16.46	7.79
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box.....	11.73	5.20
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	18.53	7.79
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	19.59	7.79
26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box.....	27.49	12.97
For Stud Bracket, Add	1.13	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box.....	28.24	12.97
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover.....	10.93	5.19
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring.....	44.89	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	47.53	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring.....	49.74	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	51.92	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring.....	56.07	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring.....	60.33	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring.....	63.79	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover.....	11.97	5.19
26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	38.11	12.97
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	41.73	14.00
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	49.49	15.57
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	62.87	17.12
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	89.62	18.67



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0088	EA		2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	49.69	12.97
26 05 33 16-0089	EA		3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	54.07	14.00
26 05 33 16-0090	EA		4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	70.33	15.57
26 05 33 16-0091	EA		5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	88.78	17.12
26 05 33 16-0092	EA		6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	140.87	18.67
26 05 33 16-0093	EA		2 Device, Gang Box Mud Ring.....	16.40	5.19
26 05 33 16-0094	EA		3 Device, Gang Box Mud Ring.....	16.60	5.19
26 05 33 16-0095	EA		4 Device, Gang Box Mud Ring.....	18.83	5.19
26 05 33 16-0096	EA		5 Device, Gang Box Mud Ring.....	22.67	5.19
26 05 33 16-0097	EA		6 Device, Gang Box Mud Ring.....	31.09	5.19
26 05 33 16-0098	EA		2 Device, Gang Box Flat Cover	14.49	5.19
26 05 33 16-0099	EA		3 Device, Gang Box Flat Cover	16.58	5.19
26 05 33 16-0100	EA		4 Device, Gang Box Flat Cover	19.35	5.19
26 05 33 16-0101	EA		5 Device, Gang Box Flat Cover	22.88	5.19
26 05 33 16-0102	EA		6 Device, Gang Box Flat Cover	31.68	5.19
26 05 33 16-0103 Steel Switch Boxes (26 05 33 16-0001)					
26 05 33 16-0104	EA		2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	28.93	12.97
26 05 33 16-0105	EA		2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	29.25	12.97
26 05 33 16-0106	EA		3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	30.93	12.97
26 05 33 16-0107	EA		2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	34.68	12.97
26 05 33 16-0108	EA		2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	35.01	12.97
26 05 33 16-0109	EA		2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	40.10	12.97
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)					
26 05 33 16-0111	EA		1-1/2" Deep, 4" x 2" Steel Handy Box.....	27.40	12.97
			For Stud Bracket, Add	1.81	
26 05 33 16-0112	EA		1-7/8" Deep, 4" x 2" Steel Handy Box.....	27.75	12.97
			For Stud Bracket, Add	0.78	
26 05 33 16-0113	EA		2-1/8" Deep, 4" x 2" Steel Handy Box.....	28.52	12.97
			For Stud Bracket, Add	1.06	
26 05 33 16-0114	EA		1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	17.67	7.78
26 05 33 16-0115	EA		1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	17.33	7.78
26 05 33 16-0116	EA		GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	5.95	2.59
26 05 33 16-0117	EA		1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	6.01	2.59
26 05 33 16-0118	EA		Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	5.69	2.59
26 05 33 16-0119	EA		Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	5.71	2.59
26 05 33 16-0120	EA		1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	6.37	2.59
26 05 33 16-0121	EA		Flat, 2" x 4" Steel Handy Box Exposed Work Cover	5.71	2.59
26 05 33 16-0122 3"-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)					
26 05 33 16-0123	EA		1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	40.38	18.16
26 05 33 16-0124	EA		2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	44.53	19.19
26 05 33 16-0125	EA		3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	50.32	20.75
26 05 33 16-0126	EA		4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	56.85	22.83
26 05 33 16-0127 Cast Boxes (26 05 33 16)					
Note: For flush or surface mount.					
26 05 33 16-0128 Cast Iron Alloy Boxes (26 05 33 16-0127)					
See CSI section 26 27 26 00-0260 for box covers.					
26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)					
Note: Up to 2" deep boxes.					
26 05 33 16-0130	EA		1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	83.35	31.13
			Note: One hub.		
26 05 33 16-0131	EA		3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	90.97	36.31
			Note: One hub.		
26 05 33 16-0132	EA		1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....	107.69	44.10
			Note: One hub.		
26 05 33 16-0133	EA		1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	105.28	41.50
			Note: Two hub.		
26 05 33 16-0134	EA		3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	132.98	49.29
			Note: Two hub.		
26 05 33 16-0135	EA		1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	104.92	41.50
			Note: Two hub.		
26 05 33 16-0136	EA		3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....	125.90	49.29
			Note: Two hubs.		
26 05 33 16-0137	EA		1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	107.20	41.50
			Note: Two hubs.		
26 05 33 16-0138	EA		3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	125.93	49.29
			Note: Two hubs.		
26 05 33 16-0139	EA		1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	104.92	41.50
			Note: Two hubs.		
26 05 33 16-0140	EA		3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....	123.12	49.29
			Note: Two hubs.		
26 05 33 16-0141	EA		1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box.....	126.04	51.88
			Note: Three hubs.		

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0142 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	149.53	62.25
26 05 33 16-0143 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	130.41	51.88
26 05 33 16-0144 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	166.19	62.25
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	133.26	51.88
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	159.34	62.25
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	125.67	51.88
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	161.27	62.25
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	158.55	62.25
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	191.33	75.22
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	86.57	31.13
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	99.90	36.31
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	117.99	44.10
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	111.16	41.50
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	128.93	49.29
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	155.14	59.66
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	136.95	49.29
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	175.69	62.25
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	98.66	33.72
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	109.99	38.91
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	128.42	46.69
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	120.96	44.10
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	138.17	51.88
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	108.32	33.72
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	119.07	38.91
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	135.50	44.10
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	153.53	51.88
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0260 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	72.98	25.94
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	84.19	31.13
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	95.46	38.91
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	69.23	25.94
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	86.83	31.13
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	94.09	36.31



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	113.25	44.10
26 05 33 16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	141.72	54.48
26 05 33 16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	100.61	36.31
26 05 33 16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	110.08	44.10
26 05 33 16-0183	EA	1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	96.90	36.31
26 05 33 16-0184	EA	3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	112.29	44.10
26 05 33 16-0185	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	94.51	36.31
26 05 33 16-0186	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	112.29	44.10
26 05 33 16-0187	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	88.98	36.31
26 05 33 16-0188	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	118.17	44.10
26 05 33 16-0189	EA	1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	113.55	46.69
26 05 33 16-0190	EA	3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	138.11	57.07
26 05 33 16-0191	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	119.28	46.69
26 05 33 16-0192	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	157.96	57.07
26 05 33 16-0193	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	118.80	46.69
26 05 33 16-0194	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	145.66	57.07
26 05 33 16-0195	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	147.36	57.07
26 05 33 16-0196	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	144.91	57.07
26 05 33 16-0197	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	177.05	70.04
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: >2" deep boxes.				
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	79.63	25.94
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	95.41	31.13
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	110.88	38.91
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	101.48	31.13
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	102.69	36.31
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	123.81	44.10
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	140.73	54.48
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	125.21	44.10
26 05 33 16-0207	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	154.52	57.07
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: Up to 2" deep boxes.				
26 05 33 16-0209	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	94.12	28.53
26 05 33 16-0210	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	108.24	33.72
26 05 33 16-0211	EA	1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	118.57	41.50
26 05 33 16-0212	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	119.07	38.91
26 05 33 16-0213	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	124.53	46.69
26 05 33 16-0214	EA	1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	153.55	57.07
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: >2" deep boxes.				
26 05 33 16-0216	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	94.05	28.53
26 05 33 16-0217	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	109.15	33.72

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	121.15	38.91
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	138.43	46.69
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	121.15	38.91
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	138.43	46.69
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	127.45	41.50
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	144.19	49.29
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	140.46	36.31
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	158.16	44.10
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	147.07	41.50
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	180.23	46.69
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	168.82	51.88
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body.....	163.28	46.69
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	196.89	51.88
26 05 33 16-0234 Non Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0260 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	50.79	21.79
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box..... Note: One hub.	58.27	25.43
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	67.28	30.87
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	65.53	29.05
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	77.17	34.50
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	93.57	41.76
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	65.72	29.05
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Two hubs.	76.66	34.50
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	91.83	41.76
26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	82.83	36.31
26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	95.34	43.58
26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	112.90	52.65
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	51.35	21.79
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	50.36	21.79
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	59.61	25.43
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	67.83	30.87
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	66.64	29.05
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	75.73	34.50
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	90.75	41.76
26 05 33 16-0256 Shallow, Two Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0257 EA 1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	54.71	23.60
26 05 33 16-0258 EA 3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	62.77	27.24
26 05 33 16-0259 EA 1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	71.01	32.69
26 05 33 16-0260 EA 1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	67.95	30.87
26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	83.20	36.31
26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	98.71	43.58
26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	69.26	30.87
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	86.82	36.31
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	95.81	43.58
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	84.85	38.13
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	109.53	45.39
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	116.44	54.48
26 05 33 16-0269 Poke Thru Units (26 05 33 16)		
26 05 33 16-0270 Surface Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0271 EA Single 20 Amp Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	396.64	38.91
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	253.72	
26 05 33 16-0273 EA Replacement 20 Amp Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC37REC.	37.45	10.38
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	42.84	5.19
26 05 33 16-0275 EA Four 20 Amp Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	447.77	41.50
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	238.10	
26 05 33 16-0277 EA Replacement Two 20 Amp Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	63.47	15.57
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	42.84	5.19
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	123.27	10.38
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	355.46	36.31
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	30.29	5.19
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	353.88	36.31
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	41.46	5.19
26 05 33 16-0284 Recessed Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0285 Evolution 6AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Premired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	649.14	41.50
26 05 33 16-0287 EA Recessed Premired Assembly With Flush Style Cover (Wiremold 6ATP) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	649.22	41.50
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	619.28	41.50

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0289	EA		Recessed Assembly With Flush Style Cover (Wiremold 6AT) Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	619.28	41.50
26 05 33 16-0290	EA		Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	649.14	41.50
26 05 33 16-0291	EA		Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA) Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	649.14	41.50
26 05 33 16-0292	EA		Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	594.00	41.50
26 05 33 16-0293	EA		Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	376.22	38.91
26 05 33 16-0294	EA		Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	402.64	38.91
26 05 33 16-0295	EA		Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	405.25	38.91
26 05 33 16-0296	EA		6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS) Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	117.74	20.75
26 05 33 16-0297	EA		Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	259.75	10.38
26 05 33 16-0298	EA		Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	259.75	10.38
26 05 33 16-0299	EA		Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	216.44	10.38
26 05 33 16-0300	EA		Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	31.64	2.59
26 05 33 16-0301	EA		Device Mounting Plate (Wiremold 6AAP) Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	16.66	5.19
26 05 33 16-0302	EA		Device Mounting Plate (Wiremold 6ACT8A) Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	19.01	5.19
26 05 33 16-0303	EA		Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	16.59	5.19
26 05 33 16-0304	EA		Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20A receptacles, GFCIs, 106 adapters or AV devices. For use in the center compartment only. Devices supplied by others.	16.64	5.19
26 05 33 16-0305	EA		Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20A duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	16.54	5.19
26 05 33 16-0306	EA		Device Mounting Plate (Wiremold 6MAAP) Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	19.26	5.19
26 05 33 16-0307	EA		Device Mounting Plate (Wiremold 6MAAP2A) Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	19.06	5.19
26 05 33 16-0308	EA		Mosaic Mounting Plate (Wiremold 6MOS) Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	19.49	5.19
26 05 33 16-0309	EA		Device Mounting Plate (Wiremold 6S1) Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	16.31	5.19
26 05 33 16-0310	EA		Device Mounting Plate (Wiremold 6S2) Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	16.32	5.19
26 05 33 16-0311	EA		Device Mounting Plate (Wiremold 6SER) Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	16.12	5.19
26 05 33 16-0312	EA		Device Mounting Plate (Wiremold 6TRAC)..... Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.	16.12	5.19



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0313	EA	20AMP Duplex Receptacles (Wiremold 68REC) Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.	37.44	7.78
26 05 33 16-0314	EA	Device Mounting Plate (Wiremold 68B) Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.	14.89	5.19
26 05 33 16-0315	EA	Device Mounting Plate (Wiremold 68MAAP) Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.	15.22	5.19
26 05 33 16-0316	EA	20AMP Duplex Receptacles (Wiremold 68REC-25) Note: Two (2) proprietary 20AMP duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated	113.29	9.34
26 05 33 16-0317	EA	Device Mounting Plate (Wiremold 682A) Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	18.85	5.19
26 05 33 16-0318	EA	Bottom Housing Assembly (Wiremold 5PTHA) Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	19.58	5.19
26 05 33 16-0319	EA	Bottom Housing Assembly (Wiremold 5BLH) Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	20.10	5.19
26 05 33 16-0320	EA	Bottom Housing Assembly (Wiremold 152CHA) Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.	31.57	10.38
26 05 33 16-0321	EA	Bottom Housing Assembly (Wiremold 575CHA) Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	36.49	12.97
26 05 33 16-0322	EA	Bottom Housing Assembly (Wiremold 175CHA) Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	39.85	12.97
26 05 33 16-0323	EA	Bottom Housing Assembly (Wiremold 1125CHA) Note: One-gang 1 1/4" trade size conduit housing assembly.	30.43	10.38
26 05 33 16-0324	EA	Bottom Housing Assembly (Wiremold 1PTHA) Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	19.46	5.19
26 05 33 16-0325	EA	Bottom Housing Assembly (Wiremold 1BLH) Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	19.46	5.19
26 05 33 16-0326	EA	Bottom Housing Assembly (Wiremold 15FFHA) Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	20.42	5.19
26 05 33 16-0327	EA	Bottom Housing Assembly (Wiremold 1BHA) Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	21.08	5.19
26 05 33 16-0328		Evolution 8AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0329	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP) Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	847.79	41.50
26 05 33 16-0330	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	807.49	41.50
26 05 33 16-0331	EA	Recessed Assembly With Surface Style Cover (Wiremold 8ATC) Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	799.90	41.50
26 05 33 16-0332	EA	Recessed Assembly With Flush Style Cover (Wiremold 8AT) Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	792.71	41.50
26 05 33 16-0333	EA	Recessed Assembly With Disposable Plate (Wiremold 8STC) Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	482.85	38.91
26 05 33 16-0334	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP) Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	539.62	38.91
26 05 33 16-0335	EA	8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS) Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	139.90	20.75
26 05 33 16-0336	EA	Surface Style Cover Assembly (Wiremold 8CTC) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	280.66	10.38
26 05 33 16-0337	EA	Flush Style Cover Assembly (Wiremold 8CT) Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	280.66	10.38

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Tile Shim (Wiremold 8TS).....	48.87	2.59
Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.		
26 05 33 16-0339 EA Device Mounting Plate (Wiremold 8B).....	17.17	5.19
Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.		
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8DP).....	17.26	5.19
Note: Singlegang device plate that accepts standard 20A duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DEC).....	17.36	5.19
Note: Singlegang device plate that will accept Decorator style devices such as 20A receptacles, GGCIs, 106 adapters or AV devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8ACT6A).....	19.87	5.19
Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0343 EA Mosaic Mounting Plate (Wiremold 8MOS).....	23.75	5.19
Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.		
26 05 33 16-0344 EA Crestron Double Gang Plate (Wiremold 8CREST).....	23.72	5.19
Note: Device plate accepts Crestron double-gang decorator style devices.		
26 05 33 16-0345 EA Device Mounting Plate (Wiremold 8S1).....	16.69	5.19
Note: Receptacle opening 1 3/8". For 8" poke-thru units only.		
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S2).....	16.89	5.19
Note: Receptacle opening 1 9/16". For 8" poke-thru units only.		
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8TRAC).....	16.69	5.19
Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8SER).....	16.69	5.19
Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8MAAP).....	23.40	5.19
Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8AAP).....	19.76	5.19
Note: Two-gang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0351 EA 8" Divider (Wiremold 8DIV).....	22.55	5.19
Note: Divider allows for separation of services when required.		
26 05 33 16-0352 EA Bottom Housing Assembly (Wiremold 22CHA).....	31.57	10.38
Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.		

26 05 33 23 Surface Raceways For Electrical Systems (26 05 33)**26 05 33 23-0001 Raceways (26 05 33 23)****26 05 33 23-0002 Wireway With Screw Cover (26 05 33 23-0001)**

Note: Also known as wire trough. Galvanized steel construction. Mounted exposed on flat wall surface. Labor units include material unloading, unpacking at job site, layout of job, assembly and installation.

26 05 33 23-0003 2-1/2" x 2-1/2", Wireway With Screw Cover (26 05 33 23-0002)

26 05 33 23-0004 LF 2-1/2" x 2-1/2", NEMA 1, Surface Mounted Wireway With Screw Cover	16.18	4.74
For Combination Hinged Screw Cover, Add	0.34	
For Concrete Or Masonry Surface, Add	0.47	
26 05 33 23-0005 EA 2-1/2" x 2-1/2", End Plate For Surface Mounted Wireway With Screw Cover	16.66	7.11
For Combination Hinged Screw Cover, Add	0.12	
26 05 33 23-0006 EA 2-1/2" x 2-1/2", Coupling For Surface Mounted Wireway With Screw Cover	20.17	8.87
For Combination Hinged Screw Cover, Add	0.12	
26 05 33 23-0007 EA 2-1/2" x 2-1/2", Panel Adapter For Surface Mounted Wireway With Screw Cover	40.33	16.60
For Combination Hinged Screw Cover, Add	0.36	
26 05 33 23-0008 EA 2-1/2" x 2-1/2", Elbow For Surface Mounted Wireway With Screw Cover	54.52	16.60
For Combination Hinged Screw Cover, Add	1.07	
26 05 33 23-0009 EA 2-1/2" x 2-1/2", Tee For Surface Mounted Wireway With Screw Cover	79.71	23.62
For Combination Hinged Screw Cover, Add	1.63	
26 05 33 23-0010 EA 2-1/2" x 2-1/2", Cross For Surface Mounted Wireway With Screw Cover	89.09	26.08
For Combination Hinged Screw Cover, Add	1.85	

26 05 33 23-0011 4" x 4", Wireway With Screw Cover (26 05 33 23-0002)

26 05 33 23-0012 LF 4" x 4", NEMA 1, Surface Mounted Wireway With Screw Cover	19.95	5.97
For Combination Hinged Screw Cover, Add	0.40	
For Concrete Or Masonry Surface, Add	0.59	
26 05 33 23-0013 LF 4" x 4", NEMA 3R, Surface Mounted Wireway With Screw Cover	30.96	5.97
For Combination Hinged Screw Cover, Add	0.96	
For Concrete Or Masonry Surface, Add	0.59	
26 05 33 23-0014 EA 4" x 4", End Plate For Surface Mounted Wireway With Screw Cover	12.97	5.22
For Combination Hinged Screw Cover, Add	0.13	
26 05 33 23-0015 EA 4" x 4", Coupling For Surface Mounted Wireway With Screw Cover	22.46	9.96
For Combination Hinged Screw Cover, Add	0.13	
26 05 33 23-0016 EA 4" x 4", Panel Adapter For Surface Mounted Wireway With Screw Cover	48.36	20.30
For Combination Hinged Screw Cover, Add	0.39	
26 05 33 23-0017 EA 4" x 4", Elbow For Surface Mounted Wireway With Screw Cover	63.97	20.30
For Combination Hinged Screw Cover, Add	1.17	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 23-0018	EA 4" x 4", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	88.13 1.77		26.37
26 05 33 23-0019	EA 4" x 4", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	102.17 2.03		30.83
26 05 33 23-0020 6" x 6", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0021	LF 6" x 6", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	28.04 0.69 0.71		7.11
26 05 33 23-0022	LF 6" x 6", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	47.34 1.65 0.71		7.11
26 05 33 23-0023	EA 6" x 6", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	15.46 0.20		5.69
26 05 33 23-0024	EA 6" x 6", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	27.79 0.20		11.85
26 05 33 23-0025	EA 6" x 6", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	63.00 0.79		23.62
26 05 33 23-0026	EA 6" x 6", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	79.48 1.62		23.62
26 05 33 23-0027	EA 6" x 6", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	117.05 2.91		29.50
26 05 33 23-0028	EA 6" x 6", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	129.15 3.04		34.15
26 05 33 23-0029 8" x 8", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0030	LF 8" x 8", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	41.35 1.29 0.78		7.78
26 05 33 23-0031	LF 8" x 8", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	68.84 2.67 0.78		7.78
26 05 33 23-0032	EA 8" x 8", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	16.93 0.23		6.16
26 05 33 23-0033	EA 8" x 8", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	30.20 0.23		12.81
26 05 33 23-0034	EA 8" x 8", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	70.00 0.90		25.99
26 05 33 23-0035	EA 8" x 8", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	96.76 2.24		25.99
26 05 33 23-0036	EA 8" x 8", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	137.24 3.66		32.07
26 05 33 23-0037	EA 8" x 8", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	185.52 5.39		38.89
26 05 33 23-0038 10" x 10", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0039	LF 10" x 10", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	57.71 1.98 0.90		9.01
26 05 33 23-0040	LF 10" x 10", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	94.91 3.84 0.90		9.01
26 05 33 23-0041	EA 10" x 10", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	22.11 0.39		7.11
26 05 33 23-0042	EA 10" x 10", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	36.34 0.39		14.23
26 05 33 23-0043	EA 10" x 10", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	86.72 1.51		28.27
26 05 33 23-0044	EA 10" x 10", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	139.82 4.16		28.27
26 05 33 23-0045	EA 10" x 10", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	204.05 6.64		35.66
26 05 33 23-0046	EA 10" x 10", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	280.14 9.98		40.31
26 05 33 23-0047 12" x 12", Wireway With Screw Cover (26 05 33 23-0002)				
26 05 33 23-0048	LF 12" x 12", NEMA 1, Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	68.08 2.31 1.09		10.91
26 05 33 23-0049	LF 12" x 12", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	105.47 4.18 1.09		10.91
26 05 33 23-0050	EA 12" x 12", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	27.23 0.60		7.59
26 05 33 23-0051	EA 12" x 12", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	42.40 0.60		15.18
26 05 33 23-0052	EA 12" x 12", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	107.24 2.28		30.83

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0053 EA 12" x 12", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	177.55 5.79	30.83
26 05 33 23-0054 EA 12" x 12", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	227.08 7.56	37.94
26 05 33 23-0055 EA 12" x 12", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	350.10 13.24	42.69
26 05 33 23-0056 Surface Metal Raceways (26 05 33 23-0001) Note: Exposed on flat wall surface. Labor units include material unloading, unpacking at job site, layout of job, assembly and installation.		
26 05 33 23-0057 One Piece Surface Metal Raceways (26 05 33 23-0056) Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. Labor units to include material handling, unloading at job site, layout of job, measuring, cutting and assembly (Wiremold or approved equal).		
26 05 33 23-0058 3/4" x 17/32" One Piece Surface Metal Raceways (Wiremold #500) (26 05 33 23-0057) Note: Available in ivory.		
26 05 33 23-0059 LF #500, 3/4" x 17/32" One Piece Surface Metal Raceway <i>For Concrete Or Masonry Surface, Add</i>	3.97 0.14	1.42
26 05 33 23-0060 EA #502 Bushing	4.06	1.89
26 05 33 23-0061 EA #504 One Or Two Hole Strap	4.09	1.89
26 05 33 23-0062 EA #506 Connection Cover	4.22	1.89
26 05 33 23-0063 EA #511 Flat 90 Degree Elbow	6.23	2.27
26 05 33 23-0064 EA #512 Flat 45 Degree Elbow	9.84	2.37
26 05 33 23-0065 EA #517 Adjustable Internal Elbow	7.74	2.85
26 05 33 23-0066 EA #518 Adjustable External Elbow	7.59	2.85
26 05 33 23-0067 3/4" x 21/32" One Piece Surface Metal Raceways (Wiremold #700) (26 05 33 23-0057) Note: Available in ivory and white.		
26 05 33 23-0068 LF #700, 3/4" x 21/32" One Piece Surface Metal Raceway <i>For Concrete Or Masonry Surface, Add</i>	5.05 0.19	1.89
26 05 33 23-0069 EA #702 Bushing	4.15	1.89
26 05 33 23-0070 EA #704 One Or Two Hole Strap	4.26	1.89
26 05 33 23-0071 EA #706 Connection Cover	4.29	1.89
26 05 33 23-0072 EA #711 Flat 90 Degree Elbow	9.31	3.80
26 05 33 23-0073 EA #712 Flat 45 Degree Elbow	13.89	3.80
26 05 33 23-0074 EA #717 Adjustable Internal Elbow	9.95	3.80
26 05 33 23-0075 EA #718 Adjustable External Elbow	9.66	3.80
26 05 33 23-0076 One Piece Surface Metal Raceways Fittings (Wiremold #500 And 700 Fittings) (26 05 33 23-0057) Note: Available in ivory.		
26 05 33 23-0077 EA #5700F 18" Flex Fitting, For #500 Or 700	24.78	2.85
26 05 33 23-0078 EA #5701 Galvanized Coupling, For #500 Or 700	4.25	1.89
26 05 33 23-0079 EA #5703 Supporting Clip, For #500 Or 700	4.25	1.89
26 05 33 23-0080 EA #5709 Ground Clamp	11.37	2.85
26 05 33 23-0081 EA #5709GC Grounding Connector	9.76	2.85
26 05 33 23-0082 EA #5711 L Or R (Left Or Right) Twisted Internal Ell	11.28	3.80
26 05 33 23-0083 EA #5715 Tee	12.85	4.74
26 05 33 23-0084 EA #5719 Corner Box, 2-1/2" x 2-3/8" x 2-1/2"	20.80	3.80
26 05 33 23-0085 EA #57242 Utility Box For #500 Or #700	16.31	3.80
26 05 33 23-0086 EA #5731 Blank Cover, 2-3/8" Diameter	8.88	2.37
26 05 33 23-0087 EA #5733 Outlet Box, 3" Diameter	19.88	3.80
26 05 33 23-0088 EA #5735 Distribution Box, 4-3/4" Square x 1-3/8" Deep	19.82	3.80
26 05 33 23-0089 EA #5736 Blank Cover, 4-3/8"	9.37	2.37
26 05 33 23-0090 EA #5737 Extension Box/Open Base, 4-3/4" Diameter	18.13	3.80
26 05 33 23-0091 EA #5737A Extension Box/Open Base, 5-1/2" Diameter	17.54	3.80
26 05 33 23-0092 EA #5738 Fixture Box/Solid Base, 4-3/4" Diameter	17.68	3.80
26 05 33 23-0093 EA #5738A Fixture Box/Solid Base, 5-1/2" Diameter	17.68	3.80
26 05 33 23-0094 EA #5738AF Fan Box/Solid Base, 5-1/2" Diameter	19.82	3.80
26 05 33 23-0095 EA #5739 Fixture Box/Solid Base, 6-3/8"	19.59	3.80
26 05 33 23-0096 EA #5739A Extension Box/Open Base, 6-3/8" Diameter	20.82	3.80
26 05 33 23-0097 EA #57240 Standard Switch Box For #500, Or #700	24.13	6.16
26 05 33 23-0098 EA #57243G Duplex Receptacle And Box, Ground, For #500 Or #700	38.88	11.85
26 05 33 23-0099 EA #5741 Switch And Receptacle Box For Shallow Type Switches, 2-13/16" x 4-5/8" x 1-3/8"	18.74	6.16
26 05 33 23-0100 EA #5744 Extra Deep Switch And Receptacle Box, 1 Gang, 4-5/8" x 2-7/8" x 2-3/4"	28.44	6.16
26 05 33 23-0101 EA #5744-2 Extra Deep Switch And Receptacle Box, 2 Gang, 4-3/4" x 4-3/4" x 2-3/4"	32.30	6.16
26 05 33 23-0102 EA #5744-3 Extra Deep Switch And Receptacle Box, 3 Gang, 4-5/8" x 6-1/2" x 2-3/4"	47.97	6.16
26 05 33 23-0103 EA #5744S Signal Box 1 Gang	25.64	5.22
26 05 33 23-0104 EA #5744S-2 Signal Box 2 Gang	28.41	5.22
26 05 33 23-0105 EA #5744S-3 Signal Box 3 Gang	44.52	5.22
26 05 33 23-0106 EA #5745 Combination Switch And Receptacle Box With 1/2" KO's, 4-5/8" x 2-7/8" x 1-3/4"	19.47	6.16
26 05 33 23-0107 EA #5747 Shallow Switch And Receptacle Box For Standard Shallow Devices, 1 Gang, 4-5/8" x 2-7/8" x 1-3/8"	17.37	6.16
26 05 33 23-0108 EA #5747-2 Shallow Switch And Receptacle Box For Standard Shallow Devices, 2 Gang, 4-3/4" x 4-3/4" x 1-3/8"	23.60	6.16
26 05 33 23-0109 EA #5747-3 Shallow Switch And Receptacle Box For Standard Shallow Devices, 3 Gang, 4-5/8" x 6-1/2" x 2-3/4"	43.96	6.16
26 05 33 23-0110 EA #5748 Switch And Receptacle Box For Deep Devices, 1 Gang, 4-5/8" x 2-7/8" x 1-3/4"	18.43	6.16
26 05 33 23-0111 EA #5748-2 Switch And Receptacle Box For Deep Devices, 2 Gang, 4-3/4" x 4-3/4" x 1-3/4"	24.86	6.16



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0112	EA		#5748-3 Switch And Receptacle Box For Deep Devices, 3 Gang, 4-5/8" x 6-1/2" x 1-3/4".....	42.79	6.16
26 05 33 23-0113	EA		#5748-4 Switch And Receptacle Box For Deep Devices, 4 Gang, 4-5/8" x 8-11/32" x 1-3/4".....	62.51	6.16
26 05 33 23-0114	EA		#5748-5 Switch And Receptacle Box For Deep Devices, 5 Gang, 4-5/8" x 10-5/32" x 1-3/4".....	101.73	6.16
26 05 33 23-0115	EA		#5748-6 Switch And Receptacle Box For Deep Devices, 6 Gang, 4-5/8" x 11-31/32" x 1-3/4".....	103.49	6.16
26 05 33 23-0116	EA		#5748-S Shallow Switch And Receptacle Box For Shallow Duplex Devices, 4-3/8" x 2-7/8" x 15/16".....	18.22	6.16
26 05 33 23-0117	EA		#5751 Flush-Type Extension Adapter, 1 Gang, 4-5/8" x 2-7/8" x 15/16".....	17.78	6.16
26 05 33 23-0118	EA		#5751-2 Flush-Type Extension Adapter, 2 Gang, 4-3/4" x 4-3/4" x 15/16".....	22.97	6.16
26 05 33 23-0119	EA		#5751-3 Flush-Type Extension Adapter, 3 Gang, 4-5/8" x 6-1/2" x 15/16".....	43.18	6.16
26 05 33 23-0120	EA		#5751A Deep Flush-Type Extension Adapter, 1 Gang, 4-5/8" x 2-7/8" x 1-3/4".....	19.05	6.16
26 05 33 23-0121	EA		#5752 Alarm Device Box, 2 Gang, 4-11/16" x 4-11/16" x 1-3/8".....	24.05	6.16
26 05 33 23-0122	EA		#5753 Extra Deep Alarm Device Box, 2 Gang, 4-11/16" x 4-11/16" x 2-3/4".....	33.75	6.16
26 05 33 23-0123	EA		#5760 Blank Extension Box.....	11.80	2.37
26 05 33 23-0124	EA		#5780 Special Nipple, 1/2".....	11.28	2.37
26 05 33 23-0125	EA		#5781 1/2" Box Connector.....	7.76	2.37
26 05 33 23-0126	EA		#5781A 3/4" Box Connector.....	14.11	2.85
26 05 33 23-0127	EA		#5782 1/2" Conduit Connector.....	7.83	2.37
26 05 33 23-0128	EA		#5782A 3/4" Conduit Connector.....	17.44	2.85
26 05 33 23-0129	EA		#5784 1/2" Elbow Conduit Connector.....	15.72	2.85
26 05 33 23-0130	EA		#5785 Combination Connector, To Any 3-1/4" Or 4" Outlet Box.....	9.16	2.85
26 05 33 23-0131	EA		#5786 Offset Connector.....	14.66	2.85
26 05 33 23-0132	EA		#5790B Armor Cable Connector.....	7.93	2.37
26 05 33 23-0133	EA		#5791 1/2" Electrical Metallic Tubing (EMT) Connector, For #500 Or 700.....	6.96	1.89
26 05 33 23-0134			1-9/16" x 11/32" One Piece Surface Metal Raceways (Wiremold #1500) (26 05 33 23-0057) Note: Galvanized finish.		
26 05 33 23-0135	LF		#1500-10, 1-9/16" x 11/32" One Piece Surface Metal Raceway.....	7.05	2.37
			For Concrete Or Masonry Surface, Add.....	0.24	
26 05 33 23-0136	EA		#1500WC Wire Clip.....	4.56	1.89
26 05 33 23-0137	EA		#1502 Bushing.....	5.45	2.37
26 05 33 23-0138	EA		#1504 2-Hole Strap.....	6.23	2.85
26 05 33 23-0139	EA		#1511 Flat Elbow.....	23.32	9.01
26 05 33 23-0140	EA		#1517 Internal Elbow.....	23.97	9.01
26 05 33 23-0141	EA		#1517B Adapter Fitting.....	25.50	9.01
26 05 33 23-0142	EA		#1518 External Elbow.....	25.37	9.01
26 05 33 23-0143	EA		#1528 Utility Box.....	22.12	6.16
26 05 33 23-0144	EA		#1542D Junction Box.....	22.73	6.16
26 05 33 23-0145	EA		#1543GL Duplex Receptacle.....	44.45	11.85
26 05 33 23-0146	EA		#1546A Single Receptacle Box.....	23.33	6.16
26 05 33 23-0147	EA		#1546B Duplex Receptacle Box.....	27.98	6.16
26 05 33 23-0148	EA		#1546T Telephone Box.....	27.50	6.16
26 05 33 23-0149	EA		#1585 Combination Connection.....	13.23	2.85
26 05 33 23-0150			2-7/32" x 28/32" One Piece Surface Metal Raceways (Wiremold #2600) (26 05 33 23-0057) Note: Galvanized finish.		
26 05 33 23-0151	LF		#2600-10, 2-7/32" x 28/32" One Piece Surface Metal Raceway.....	11.66	4.27
			For Concrete Or Masonry Surface, Add.....	0.43	
26 05 33 23-0152	EA		#2600WC Wire Clip.....	4.55	1.89
26 05 33 23-0153	EA		#2602 Fiber Bushing.....	4.97	1.89
26 05 33 23-0154	EA		#2611 2-5/8 90 Degree Flat Elbow.....	15.96	3.32
26 05 33 23-0155	EA		#2642D Junction Box, 5" Diameter.....	23.79	4.74
26 05 33 23-0156	EA		#2686FO Service Fitting.....	23.85	5.69
26 05 33 23-0157			Two Piece Surface Metal Raceways (26 05 33 23-0056) Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. Labor units to include material handling, unloading at job site, layout of job, measuring, cutting and assembly (Wiremold or approved equal).		
26 05 33 23-0158			1-9/32" x 3/4" Two Piece Surface Metal Raceways (Wiremold #2000) (26 05 33 23-0157)		
26 05 33 23-0159	LF		#2000BC, 1-9/32" x 3/4" Two Piece Surface Metal Raceway Base And Cover.....	6.79	2.37
			For Concrete Or Masonry Surface, Add.....	0.24	
26 05 33 23-0160	EA		#2000WC Wire Clip.....	3.38	1.89
26 05 33 23-0161	EA		#2001 Coupling.....	9.20	2.37
26 05 33 23-0162	EA		#2003 Supporting Clip.....	4.19	1.42
26 05 33 23-0163	EA		#2006 Cover Clip.....	3.93	1.42
26 05 33 23-0164	EA		#2009 Ground Clamp.....	9.62	2.37
26 05 33 23-0165	EA		#2010A2 Entrance End Fitting.....	20.05	7.11
26 05 33 23-0166	EA		#2010A3 Entrance End Fitting.....	33.16	9.49
26 05 33 23-0167	EA		#2010B Blank End Fitting.....	5.53	2.37
26 05 33 23-0168	EA		#2011 Flat 90 Degree Elbow.....	17.29	6.16
26 05 33 23-0169	EA		#2015 Tee.....	30.69	8.92
26 05 33 23-0170	EA		#2017TC Internal Corner Coupling.....	11.39	4.74
26 05 33 23-0171	EA		#2048 Single Gang device Box.....	25.79	8.44
26 05 33 23-0172	EA		#2048-2 2-Gang device Box.....	39.00	9.39
26 05 33 23-0173	EA		#2051H Flush Plate Adapter.....	28.04	9.39
26 05 33 23-0174	EA		#2089 Side Reducing Connector.....	21.83	4.74
26 05 33 23-0175	EA		#2089E End Reducing Connector.....	9.18	2.37

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0176 1-7/8" x 7/8" Two Piece Surface Metal Raceways (Wiremold #2400) (26 05 33 23-0157)				
Note: Available in gray enamel (G) or ivory (V).				
26 05 33 23-0177	LF	#2400B, 1-7/8" x 7/8" Two Piece Surface Metal Raceway Base.....	5.84	2.37
		For Concrete Or Masonry Surface, Add	0.24	
26 05 33 23-0178	LF	#2400BD, 1-7/8" x 7/8" Divided Two Piece Surface Metal Raceway Base.....	6.28	2.37
		For Concrete Or Masonry Surface, Add	0.24	
26 05 33 23-0179	LF	#2400C Raceway Cover.....	2.07	0.47
26 05 33 23-0180	EA	#2400WC Wire Clip.....	3.33	1.89
26 05 33 23-0181	EA	#2401 Coupling.....	9.09	2.37
26 05 33 23-0182	EA	#2401D Divided Raceway Coupling.....	6.85	2.37
26 05 33 23-0183	EA	#2406 Cover Clip.....	3.86	1.42
26 05 33 23-0184	EA	#2407-2CM Device Bracket Frame.....	26.77	7.11
26 05 33 23-0185	EA	#2407-2TJ Device Bracket Frame.....	25.81	7.11
26 05 33 23-0186	EA	#2409 Ground Clamp.....	6.77	1.89
26 05 33 23-0187	EA	#2410A End Fitting.....	18.90	7.11
26 05 33 23-0188	EA	#2410B Blank End.....	5.49	2.37
26 05 33 23-0189	EA	#2410BD Divided Blank End Fitting.....	5.54	2.37
26 05 33 23-0190	EA	#2410C Entrance End Fitting.....	26.66	7.11
26 05 33 23-0191	EA	#2410D Divided Entrance End Fitting.....	25.73	7.11
26 05 33 23-0192	EA	#2410DFO Divided Entrance End Fitting.....	39.63	7.11
26 05 33 23-0193	EA	#2410FC Full Cap Entrance End Fitting.....	31.29	7.11
26 05 33 23-0194	EA	#2411D Divided Flat 90 Degree Elbow.....	20.73	7.11
26 05 33 23-0195	EA	#2411DFO Radiused Divided Flat 90 Degree Elbow.....	30.80	7.11
26 05 33 23-0196	EA	#2411FO Radiused Flat 90 Degree Elbow.....	27.97	7.01
26 05 33 23-0197	EA	#2411M Flat 90 Degree Elbow.....	19.95	7.11
26 05 33 23-0198	EA	#2415DFO Radiused Divided Tee.....	32.72	7.01
26 05 33 23-0199	EA	#2415FO Radiused Tee.....	31.31	7.01
26 05 33 23-0200	EA	#2415M Tee.....	22.87	7.01
26 05 33 23-0201	EA	#2417D Divided Internal Coupling.....	19.74	7.01
26 05 33 23-0202	EA	#2417DFO Radiused Divided Internal Coupling.....	28.75	7.01
26 05 33 23-0203	EA	#2417FO Radiused Internal Coupling.....	28.01	7.01
26 05 33 23-0204	EA	#2417M Internal Coupling.....	19.25	7.01
26 05 33 23-0205	EA	#2418DFO Radiused Divided External Coupling.....	30.91	7.01
26 05 33 23-0206	EA	#2418FO Radiused External Coupling.....	30.47	7.01
26 05 33 23-0207	EA	#2418M External Coupling.....	22.55	7.01
26 05 33 23-0208	EA	#2444 Extra Deep Switch And Receptacle, 1 Gang.....	27.98	6.16
26 05 33 23-0209	EA	#2444-2 Extra Deep Switch And Receptacle Box, 2 Gang.....	30.68	6.16
26 05 33 23-0210	EA	#2444-2LS Over Raceway Extra Deep Switch And Receptacle Box, 2 Gang.....	30.82	6.16
26 05 33 23-0211	EA	#2444D Divided Extra Deep Switch And Receptacle, 1 Gang.....	29.68	6.16
26 05 33 23-0212	EA	#2444D-2A Divided Extra Deep Switch And Receptacle Box, 2 Gang.....	40.49	6.16
26 05 33 23-0213	EA	#2444D-2N Divided Over Raceway Extra Deep Switch And Receptacle Box, 2 Gang.....	36.05	6.16
26 05 33 23-0214	EA	#2448 Switch And Receptacle Box For Shallow Devices, 1 Gang, 4-5/8" x 2-7/8" x 1-3/4".....	20.61	6.16
26 05 33 23-0215	EA	#2448-2 Switch And Receptacle Box For Shallow Devices, 2 Gang, 4-3/4" x 4-3/4" x 1-3/4".....	30.08	6.16
26 05 33 23-0216	EA	#2450 Adapter Plate, Device Bracket Type.....	9.50	2.37
26 05 33 23-0217	EA	#2451H 4-1/2" x 4-1/2" Back Feed Fitting.....	23.33	7.11
26 05 33 23-0218	EA	#2475D Bridge Fitting 2400/700/500.....	61.77	7.11
26 05 33 23-0219	EA	#2489 Side Reducing Connector.....	18.93	3.80
26 05 33 23-0220 2-3/4" x 1-17/32" Two Piece Surface Metal Raceways (Wiremold #3000) (26 05 33 23-0157)				
Note: Available in gray enamel (G) or ivory (V).				
26 05 33 23-0221	LF	#3000B, 2-3/4" x 1-17/32" Two Piece Surface Metal Raceway Base.....	11.50	4.27
		For Concrete Or Masonry Surface, Add	0.43	
26 05 33 23-0222	LF	#3000CE Raceway Cover.....	2.49	0.47
26 05 33 23-0223	EA	#3000WC Wire Clips For Conductors.....	4.30	1.89
26 05 33 23-0224	EA	#3001 Couplings.....	11.38	1.89
26 05 33 23-0225	EA	#3001A Rigid Inside Coupling.....	10.42	2.37
26 05 33 23-0226	EA	#3003 Supporting Clip.....	7.98	2.37
26 05 33 23-0227	EA	#3006E Clip Cover.....	4.82	1.89
26 05 33 23-0228	EA	#3007C Device Brackets.....	11.97	3.80
26 05 33 23-0229	EA	#3008C C-Hanger.....	11.48	2.85
26 05 33 23-0230	EA	#3010AE Entrance End Fitting For Connecting To 1/2" Conduit Or Armored Connectors.....	27.84	9.01
26 05 33 23-0231	EA	#3010B Blank End Fittings.....	10.41	3.80
26 05 33 23-0232	EA	#3010C Entrance End Fitting For Connecting To Rigid Or Flexible Conduit.....	30.39	9.01
26 05 33 23-0233	EA	#3011E Flat 90 Degree Elbow.....	44.84	11.76
26 05 33 23-0234	EA	#3014C Wall Box Connector.....	33.56	11.85
26 05 33 23-0235	EA	#3015E Tee Fitting.....	61.00	14.70
26 05 33 23-0236	EA	#3017TCE Internal Corner Coupling.....	29.79	9.01
26 05 33 23-0237	EA	#3018AE External Corner.....	35.80	9.01
26 05 33 23-0238	EA	#3027AE Single Receptacle Cover, With Face Diameters Of 1.38"-1.4".....	26.72	9.01
26 05 33 23-0239	EA	#3028 Utility Box.....	42.44	9.01
26 05 33 23-0240	EA	#3033JE Single Receptacle Cover, With Face Diameters Of 1.56"-1.57".....	13.45	2.37
26 05 33 23-0241	EA	#3036HE Blank Cover.....	14.61	2.37
26 05 33 23-0242	EA	#3040CE Switch Cover.....	13.42	2.37
26 05 33 23-0243	EA	#3043BE Duplex Receptacle Cover.....	13.28	2.85
26 05 33 23-0244	EA	#3043GE 15 Amp, 125 Volt Duplex Grounding Receptacle And Cover.....	38.57	12.34
26 05 33 23-0245	EA	#3044-2 Extra Deep Switch And Receptacle Box, 2 Gang.....	47.27	9.01
26 05 33 23-0246	EA	#3046BE Duplex Receptacle Cover.....	13.72	2.85
26 05 33 23-0247	EA	#3046H-2 Tap Off Fitting.....	12.72	2.37
26 05 33 23-0248	EA	#3046KD Circuit Breaker Housing, 1-15/16" Deep x 6" Long.....	47.50	5.69



Electrical		26
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Raceway And Boxes For Electrical Systems		26 05 33

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0249	EA	#3046KTSQ Circuit Breaker Housing, 2-3/4" Deep x 7-3/8" Long	109.95	5.69
26 05 33 23-0250	EA	#3046QOU Circuit Breaker Housing, 1-13/16" Deep x 7-3/8" Long	41.90	5.69
26 05 33 23-0251	EA	#3046S Bump Up Device Plate Cover, 1-13/16" Deep x 7-15/16" Long x 2-13/16" Wide	45.00	5.69
26 05 33 23-0252	EA	#3046U Bump Up Device Plate Cover, 1-13/32" Deep x 7-15/16" Long x 2-13/16" Wide	45.00	5.69
26 05 33 23-0253	EA	#3048R Rectangular Receptacle Cover	15.06	2.85
26 05 33 23-0254 4-3/4" x 1-3/4" Two Piece Surface Metal Raceways (Wiremold #4000) (26 05 33)				
23-0157 Note: Available in gray enamel (G) or ivory (V).				
26 05 33 23-0255	LF	#4000B-10, 4-3/4" x 1-3/4" Two Piece Surface Metal Raceway Base	13.80	4.27
For Concrete Or Masonry Surface, Add			0.46	
26 05 33 23-0256	LF	#4000C Raceway Cover	4.56	0.47
26 05 33 23-0257	LF	#4000D Divider	2.33	0.47
26 05 33 23-0258	EA	#4000WC Wire Clips For Conductors	5.14	2.37
26 05 33 23-0259	EA	#4001A Couplings	13.62	2.85
26 05 33 23-0260	EA	#4001D Divider Clip	6.78	2.85
26 05 33 23-0261	EA	#4006 Seam Clip	6.88	2.85
26 05 33 23-0262	EA	#4007C-1 Device Plate, 1 Gang	56.98	6.16
26 05 33 23-0263	EA	#4007C-1R Single Device Fitting	60.24	6.16
26 05 33 23-0264	EA	#4007C-2 Device Plate, 2 Gang	64.09	6.16
26 05 33 23-0265	EA	#4010B Blank End Fittings	14.15	3.80
26 05 33 23-0266	EA	#4010DFO Entrance End Fitting	54.35	14.61
26 05 33 23-0267	EA	#4011 Flat 90 Degree Elbow	49.78	11.85
26 05 33 23-0268	EA	#4011FO Radiused Flat 90 Degree Elbow	57.86	11.85
26 05 33 23-0269	EA	#4012TX Internal Or External 45 Degree Elbow	54.98	14.70
26 05 33 23-0270	EA	#4014A Wall Box Connector	71.15	14.70
26 05 33 23-0271	EA	#4015 Tee Fitting	78.24	14.70
26 05 33 23-0272	EA	#4015D Divided Tee Fitting	81.09	14.70
26 05 33 23-0273	EA	#4015DFO Radiused Full Capacity Divided Tee Fitting	95.59	14.70
26 05 33 23-0274	EA	#4015FO Radiused Tee Fitting	95.87	14.70
26 05 33 23-0275	EA	#4017 Internal Elbow	45.88	14.70
26 05 33 23-0276	EA	#4017FO Internal Elbow	76.98	14.70
26 05 33 23-0277	EA	#4017N Inverted Internal Elbow	50.15	14.70
26 05 33 23-0278	EA	#4017TCA Internal Corner Coupling	43.61	14.70
26 05 33 23-0279	EA	#4018 External Elbow	65.31	14.70
26 05 33 23-0280	EA	#4018FO Radiused External Elbow	74.76	14.70
26 05 33 23-0281	EA	#4046ARJ Single Locking Receptacle And Two RJ11/45 Modular Connectors Outlet Cover	60.53	6.16
26 05 33 23-0282	EA	#4046B-2 Double Duplex Receptacle Outlet Cover	64.03	6.16
26 05 33 23-0283	EA	#4046DRJ Duplex Receptacle And Two RJ11/45 Modular Connector Cover	64.03	6.16
26 05 33 23-0284	EA	#4046DRJ-2 Double Duplex Receptacle And Four RJ11/45 Modular Connector Cover	84.70	6.16
26 05 33 23-0285	EA	#4046H-2 Tap-Off Fitting	19.89	6.16
26 05 33 23-0286	EA	#4046JRJ Combination Single Receptacle And Phone Outlet Center	53.88	2.85
26 05 33 23-0287	EA	#4046RRJ Rectangular Receptacle And Two RJ11/45 Modular Connector Cover	65.47	6.16
26 05 33 23-0288	EA	#4050 Device Mounting Bracket	21.43	6.16
26 05 33 23-0289	EA	#4074A Take-off Connector, #4000 To #3000	96.97	14.70
26 05 33 23-0290	EA	#4075D Bridge Fitting	88.01	14.70
26 05 33 23-0291	EA	#4075DA Bridge Fitting	88.01	14.70
26 05 33 23-0292	EA	#4086A Panel Connector	77.76	27.99
26 05 33 23-0293	EA	#4089 Reducing Connector Fitting	46.77	14.70
26 05 33 23-0294 4-3/4" x 3-9/16" Two Piece Surface Metal Raceways (Wiremold #6000) (26 05)				
33 23-0157 Note: Available in gray enamel (G) or ivory (V).				
26 05 33 23-0295	LF	#6000B-10, 4-3/4" x 3-9/16" Two Piece Surface Metal Raceway Base	19.50	5.22
For Concrete Or Masonry Surface, Add			0.52	
26 05 33 23-0296	LF	#6000C Raceway Cover	5.47	1.42
26 05 33 23-0297	LF	#6000DA Divider	5.62	1.42
26 05 33 23-0298	EA	#6000WC Wire Clips For Conductors	5.86	2.37
26 05 33 23-0299	EA	#6001A Couplings	16.89	4.74
26 05 33 23-0300	EA	#6001D Divider Clip	7.70	2.37
26 05 33 23-0301	EA	#6001TX Converter Coupling	21.17	6.16
26 05 33 23-0302	EA	#6006 Connection Cover	20.23	6.16
26 05 33 23-0303	EA	#6007C-1 Single Gang Device Plate	21.08	6.16
26 05 33 23-0304	EA	#6007C-2 Two Gang Device Plate	22.82	6.16
26 05 33 23-0305	EA	#6008A C-Hanger	33.20	9.01
26 05 33 23-0306	EA	#6010B Blank End Fittings	37.75	14.23
26 05 33 23-0307	EA	#6011TX Combination Flat Elbow	65.49	14.23
26 05 33 23-0308	EA	#6012TX Internal - External 45 Degree Elbow	66.27	13.66
26 05 33 23-0309	EA	#6014A Connector Fitting	92.47	14.70
26 05 33 23-0310	EA	#6017TX Combination Internal-External Elbow	68.43	16.12
26 05 33 23-0311	EA	#6046KD Circuit Breaker Housing	114.08	16.12
26 05 33 23-0312	EA	#6074 Take-off Connector, #6000 To #6000	109.52	14.23
26 05 33 23-0313	EA	#6074A Take-off Connector, #6000 To #4000	117.99	14.23
26 05 33 23-0314	EA	#6086 Panel Connector	81.98	33.01
26 05 33 23-0315 Two Piece Surface Aluminum Raceways (26 05 33 23-0056)				
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. Labor units to include material handling, unloading at job site, layout of job, measuring, cutting and assembly (Wiremold or approved equal).				

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 05 33 23-0316 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceways (Wiremold #AL2000)
(26 05 33 23-0315)

26 05 33 23-0317	LF	#AL2000B, 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceway Base	8.46	2.37
		<i>For Concrete Or Masonry Surface, Add</i>	0.24	
26 05 33 23-0318	LF	#AL2000C Aluminum Raceway Cover	3.90	0.47
26 05 33 23-0319	EA	#AL2000WC Wire Clip	4.23	1.89
26 05 33 23-0320	EA	#AL2001 Coupling	9.85	2.37
26 05 33 23-0321	EA	#AL2003 Supporting Clip	4.52	1.42
26 05 33 23-0322	EA	#AL2006 Cover Clip	5.56	1.42
26 05 33 23-0323	EA	#AL2009 Ground Clamp	8.10	2.37
26 05 33 23-0324	EA	#AL2010A Entrance End Fitting	22.86	7.11
26 05 33 23-0325	EA	#AL2010B Blank End Fitting	7.43	2.37
26 05 33 23-0326	EA	#AL2011 Flat 90 Degree Elbow	25.57	6.16
26 05 33 23-0327	EA	#AL2015 Tee	34.93	8.92
26 05 33 23-0328	EA	#AL2017 Internal Corner Elbow	22.73	4.74
26 05 33 23-0329	EA	#AL2018 External Corner Elbow	22.69	4.74
26 05 33 23-0330	EA	#AL2043 In-Line Receptacle, Two 15 Amp	37.89	9.39
26 05 33 23-0331	EA	#AL2038 4-13/16" Round Fixture Box	81.69	8.44
26 05 33 23-0332	EA	#AL2044 4-1/2" x 3" x 2-1/4" D Box	38.47	8.44
26 05 33 23-0333	EA	#AL2044-2 4-5/8" x 4-7/8" x 2-1/2" D Box	75.96	9.39
26 05 33 23-0334	EA	#AL2047 Single Gang Shallow Device Box	39.70	8.44
26 05 33 23-0335	EA	#AL2047-2 2-Gang Shallow Device Box	67.65	9.39
26 05 33 23-0336	EA	#AL2051H Flush Plate Adapter	31.45	9.39

26 05 33 23-0337 2" x 1-9/32" Two Piece Surface Aluminum Raceways (Wiremold #AL2400)
(26 05 33 23-0315)

26 05 33 23-0338	LF	#AL2400B, 2" x 1-9/32" Two Piece Surface Aluminum Raceway Base	8.91	2.37
		<i>For Concrete Or Masonry Surface, Add</i>	0.24	
26 05 33 23-0339	LF	#AL2400C Aluminum Raceway Cover	3.72	0.47
26 05 33 23-0340	EA	#AL2400WC Wire Clip	5.29	1.89
26 05 33 23-0341	EA	#AL2401 Coupling	10.85	2.37
26 05 33 23-0342	EA	#AL2406 Cover Clip	6.62	1.42
26 05 33 23-0343	EA	#AL2409 Ground Clamp	5.93	1.89
26 05 33 23-0344	EA	#AL2410B Blank End	7.78	2.37
26 05 33 23-0345	EA	#AL2410B2 End Fitting	17.90	7.11
26 05 33 23-0346	EA	#AL2411 Flat 90 Degree Elbow	29.15	7.11
26 05 33 23-0347	EA	#AL2415 Tee	31.37	7.01
26 05 33 23-0348	EA	#AL2416 Fourway Fitting	36.10	7.01
26 05 33 23-0349	EA	#AL2417 Internal Coupling	29.03	7.01
26 05 33 23-0350	EA	#AL2418 External Coupling	30.93	7.01
26 05 33 23-0351	EA	#AL2451H 4-1/2" x 4-1/2" Back Feed Fitting	26.45	7.11

26 05 33 23-0352 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceways (Wiremold #AL3300)
(26 05 33 23-0315)

26 05 33 23-0353	LF	#AL3300B, 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceway Base	15.42	4.27
		<i>For Concrete Or Masonry Surface, Add</i>	0.43	
26 05 33 23-0354	LF	#AL3300CE Aluminum Raceway Cover	4.07	0.47
26 05 33 23-0355	LF	#AL3300D Raceway Divider	3.41	4.27
26 05 33 23-0356	EA	#AL3300WC Wire Clips For Conductors	6.96	1.89
26 05 33 23-0357	EA	#AL3301 Couplings	13.66	1.89
26 05 33 23-0358	EA	#AL3301D Divider Coupling	10.65	2.37
26 05 33 23-0359	EA	#AL3309 Ground Clamp	7.35	1.89
26 05 33 23-0360	EA	#AL3310B Blank End Fittings	15.19	3.80
26 05 33 23-0361	EA	#AL3310B1 End Fitting	26.40	9.01
26 05 33 23-0362	EA	#AL3311 Flat 90 Degree Elbow	70.85	11.76
		Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0363	EA	#AL3315 Tee Fitting	82.02	14.70
		Note: Includes three (3) AL3301 couplings.		
26 05 33 23-0364	EA	#AL3316 Cross Fitting	91.60	14.70
		Note: Includes four (4) AL3301 couplings.		
26 05 33 23-0365	EA	#AL3317 Internal Elbow	65.19	9.01
		Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0366	EA	#AL3318 External Elbow	65.26	9.01
		Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0367	EA	#AL3346D Duplex Receptacle Cover	14.97	2.85
26 05 33 23-0368	EA	#AL3346E Single Receptacle Cover	14.89	2.85
26 05 33 23-0369	EA	#AL3346G GFCI/ Surge Receptacle Cover	14.75	2.85
26 05 33 23-0370	EA	#AL3356R Single Device Cover Plate	14.47	2.37

26 05 33 23-0371 5" x 2" Two Piece Surface Aluminum Raceways (Wiremold #AL5200)
(26 05 33 23-0315)

26 05 33 23-0372	LF	#AL5200B-10, 5" x 2" Two Piece Surface Aluminum Raceway Base	19.62	4.27
		<i>For Concrete Or Masonry Surface, Add</i>	0.46	
26 05 33 23-0373	LF	#AL5200C Aluminum Raceway Cover	7.64	0.47
26 05 33 23-0374	LF	#AL5200D Divider	4.55	0.47
26 05 33 23-0375	EA	#AL5200WC Wire Clips For Conductors	6.45	2.37
26 05 33 23-0376	EA	#AL5200WC2 Wire Clips For Conductors	5.52	2.37
26 05 33 23-0377	EA	#AL5200WC3 Wire Clips For Conductors	5.49	2.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0378 EA #AL5201 Couplings	13.29	2.85
26 05 33 23-0379 EA #AL5206 Cover Clip.....	11.34	2.85
26 05 33 23-0380 EA #AL5209 Ground Adapter	14.46	2.85
26 05 33 23-0381 EA #AL5210B Blank End Fittings	14.94	3.80
26 05 33 23-0382 EA #AL5210B1 Blank End Fittings	15.90	3.80
26 05 33 23-0383 EA #AL5210B2 Blank End Fittings	16.12	3.80
26 05 33 23-0384 EA #AL5210B3 Blank End Fittings	15.68	3.80
26 05 33 23-0385 EA #AL5211 Flat 90 Degree Elbow	78.22	11.85
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0386 EA #AL5214 Wall Box Connector.....	64.00	14.70
26 05 33 23-0387 EA #AL5215 Tee Fitting	91.90	14.70
Note: Includes three (3) pairs of AL5201 couplings.		
26 05 33 23-0388 EA #AL5216 Four Way Fitting	100.16	14.70
Note: Includes four (4) pairs of AL5201 couplings.		
26 05 33 23-0389 EA #AL5217 Internal Elbow.....	82.29	14.70
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0390 EA #AL5217A Internal Corner Coupling	38.81	14.70
26 05 33 23-0391 EA #AL5217N Inverted Internal Elbow	84.39	14.70
26 05 33 23-0392 EA #AL5218 External Elbow	82.94	14.70
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0393 EA #AL5246B Blank Device Cover Plate	17.64	2.85
26 05 33 23-0394 EA #AL5246D Receptacle Device Cover Plate	20.66	2.85
26 05 33 23-0395 EA #AL5246DD Double Receptacle Device Cover Plate	24.28	2.85
26 05 33 23-0396 EA #AL5246F Device Cover Plate.....	22.85	2.85
26 05 33 23-0397 EA #AL5246G Device Cover Plate	21.20	2.85
26 05 33 23-0398 EA #AL5260 Offset Divider.....	20.83	6.16
26 05 33 23-0399 3" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA3800)		
(26 05 33 23-0315)		
26 05 33 23-0400 LF #ALA3800B-10 Single Channel, 3" x 2-1/4" Two Piece Surface Aluminum Raceway Base	17.54	4.27
26 05 33 23-0401 EA #ALA3806 Cover Clip	8.70	2.85
26 05 33 23-0402 EA #ALA3810B Blank End Fittings.....	14.69	3.80
26 05 33 23-0403 EA #ALA3810B1 Entrance End Cap Fittings.....	15.64	3.80
26 05 33 23-0404 EA #ALA3811 Flat 90 Degree Elbow.....	76.48	11.85
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0405 EA #ALA3815 Flat Tee Fitting	80.09	14.70
Note: Includes three (3) ALA01 couplings.		
26 05 33 23-0406 EA #ALA3817 Internal Elbow	78.27	14.70
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0407 EA #ALA3817N Inverted Internal Elbow.....	90.88	14.70
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0408 EA #ALA3818 External Elbow	79.21	14.70
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0409 6" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA4800)		
(26 05 33 23-0315)		
26 05 33 23-0410 LF #ALA4800B-10 Two Channel, 6" x 2-1/4" Two Piece Surface Aluminum Raceway Base	25.24	4.27
26 05 33 23-0411 EA #ALA4806 Cover Clip	11.40	2.85
26 05 33 23-0412 EA #ALA4810B Blank End Fittings.....	14.97	3.80
26 05 33 23-0413 EA #ALA4810B2 Entrance End Cap Fittings.....	16.43	3.80
26 05 33 23-0414 EA #ALA4811 Flat 90 Degree Elbow.....	90.38	11.85
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0415 EA #ALA4815 Flat Tee Fitting	122.85	14.70
Note: Includes six (6) ALA01 couplings.		
26 05 33 23-0416 EA #ALA4817 Internal Elbow	85.58	14.70
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0417 EA #ALA4817N Inverted Internal Elbow.....	99.31	14.70
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0418 EA #ALA4818 External Elbow	89.45	14.70
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0419 Two Piece Surface Aluminum Raceways Fittings (Wiremold #ALA3800 And #ALA4800)		
(26 05 33 23-0315)		
26 05 33 23-0420 LF #ALAC-5 3" Wide Aluminum Raceway Cover.....	5.41	0.47
Note: For use with ALA3800 single channel raceway and ALA4800 dual channel raceway.		
26 05 33 23-0421 EA #ALAWC Wire Clips.....	5.21	2.37
26 05 33 23-0422 EA #ALA01 Slide Couplings	13.42	2.85
26 05 33 23-0423 EA #ALA09 Grounding Adapter.....	11.81	2.85
26 05 33 23-0424 EA #ALA11RI Bend Radius Control Insert For Flat Elbow	32.26	11.85
26 05 33 23-0425 EA #ALA17A Internal Corner Coupling.....	38.78	14.70
26 05 33 23-0426 EA #ALA17/18RI Bend Radius Control Insert For Internal And External Elbow	35.16	11.85
26 05 33 23-0427 EA #ALA-BL Blank Cover Plate.....	13.50	2.85
26 05 33 23-0428 EA #ALA-DR Duplex Receptacle Cover Plate	14.29	2.85
26 05 33 23-0429 EA #ALA-E Single Receptacle Cover Plate, 1.40" Diameter Opening	14.81	2.85
26 05 33 23-0430 EA #ALA-F Single Receptacle Cover Plate, 1.59" Diameter Opening	15.42	2.85
26 05 33 23-0431 EA #ALA-G GFCI/Surge/Decorator Cover Plate.....	14.40	2.85
26 05 33 23-0432 EA #ALA-J Single Receptacle Cover Plate, 2.13" Diameter Opening	14.83	2.85
26 05 33 23-0433 EA #ALA-N Toggle Switch Cover Plate	15.17	2.85
26 05 33 23-0434 EA #ALA-LPB Active LPB Cover Plate	19.01	2.85
26 05 33 23-0435 EA #ALA-MAB Active MAB Cover Plate.....	17.96	2.85

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0436 EA #ALA-MABRT Ortronics Cover Plate	20.47	2.85
26 05 33 23-0437 EA #ALA-SG 1-3/4" x 2-3/4" Cover Plate	14.80	2.85
26 05 33 23-0438 EA #ALA-2A Active 2A Cover Plate.....	19.83	2.85
26 05 33 23-0439 EA #ALA-ABRT Ortronics Communications Cover Plate.....	18.27	2.85
26 05 33 23-0440 EA #ALA-Z 3/4" Grommet/Mousehole Cover Plate	15.14	2.85
26 05 33 23-0441 EA #ALA-LPB3S2 Ortronics Low Profile Cover Plate.....	18.42	2.85
26 05 33 23-0442 Surface Metal Raceway, Preassembled With Outlets (26 05 33 23-0056) Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. Labor units to include material handling, unloading at job site, layout of job, measuring, cutting and assembly (Wiremold or approved equal).		
26 05 33 23-0443 LF Plugmold #2000, 3' With Outlets 6" On Center, Single Circuit.....	23.85	7.57
For Concrete Or Masonry Surface, Add	0.76	
26 05 33 23-0444 LF Plugmold #2000, 6' With Outlets 6" On Center, Single Circuit.....	18.39	5.40
For Concrete Or Masonry Surface, Add	0.54	
26 05 33 23-0445 LF Plugmold #2000, 6' With Outlets 9" On Center, Single Circuit.....	17.44	5.71
For Concrete Or Masonry Surface, Add	0.57	
26 05 33 23-0446 LF Plugmold #2000, 6' With Outlets 12" On Center, Single Circuit.....	19.03	5.40
For Concrete Or Masonry Surface, Add	0.54	
26 05 33 23-0447 LF Plugmold #2000, 6' With Outlets 18" On Center, Single Circuit.....	15.69	5.50
For Concrete Or Masonry Surface, Add	0.55	
26 05 33 23-0448 LF Plugmold #2000, 6' With Outlets 9" On Center, Two Circuits	21.16	5.40
For Concrete Or Masonry Surface, Add	0.54	
26 05 33 23-0449 LF Plugmold #2000, 6' With Outlets 12" On Center, Two Circuits.....	18.84	5.40
For Concrete Or Masonry Surface, Add	0.54	
26 05 33 23-0450 LF Plugmold #2000, 6' With Outlets 18" On Center, Two Circuits.....	20.24	5.40
For Concrete Or Masonry Surface, Add	0.54	
26 05 33 23-0451 Surface Non-Metallic Raceways (26 05 33 23-0001) Note: Exposed on flat wall surface. Labor units include material unloading, unpacking at job site, layout of job, assembly and installation.		
26 05 33 23-0452 One Piece Surface Non-Metallic Raceways (26 05 33 23-0451) Note: Exposed on flat wall surface. Labor units include material unloading, unpacking at job site, layout of job, assembly and installation. (Wiremold or approved equal).		
26 05 33 23-0453 #400, 7/8" x 7/16" (26 05 33 23-0452)		
26 05 33 23-0454 LF #400BAC, 7/8" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover.....	5.32	1.89
For Concrete Or Masonry Surface, Add	0.19	
26 05 33 23-0455 EA #400WC Wire Clip	4.12	1.89
26 05 33 23-0456 EA #406 Cover Clip.....	4.33	1.89
26 05 33 23-0457 EA #410B Blank End Clip.....	8.34	3.80
26 05 33 23-0458 EA #411 Flat 90 Degree Elbow	9.61	3.80
26 05 33 23-0459 EA #415 Tee.....	12.08	4.74
26 05 33 23-0460 EA #417 Internal Elbow	9.44	3.80
26 05 33 23-0461 EA #418 External Elbow	9.44	3.80
26 05 33 23-0462 #800, 1-5/16" x 7/16" (26 05 33 23-0452)		
26 05 33 23-0463 LF #800BAC, 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover.....	6.12	1.89
For Concrete Or Masonry Surface, Add	0.19	
26 05 33 23-0464 EA #800WC Wire Clip	4.18	1.89
26 05 33 23-0465 EA #806 Cover Clip.....	4.27	1.89
26 05 33 23-0466 EA #810A2 Entrance End Fitting.....	12.74	3.80
26 05 33 23-0467 EA #810B Blank End Fitting	8.42	3.80
26 05 33 23-0468 EA #811 Flat 90 Degree Elbow	9.68	3.80
26 05 33 23-0469 EA #815 Tee.....	12.15	4.74
26 05 33 23-0470 EA #817 Internal Elbow	9.49	3.80
26 05 33 23-0471 EA #818 External Elbow	9.49	3.80
26 05 33 23-0472 EA #889A End Reducer, #800 To #400.....	10.67	3.80
26 05 33 23-0473 #2300, 2-1/4" x 11/16" (26 05 33 23-0452)		
26 05 33 23-0474 LF #2300BAC, 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceway Base And Cover.....	7.02	1.89
For Concrete Or Masonry Surface, Add	0.19	
26 05 33 23-0475 LF #2300BACD, 2-1/4" x 11/16" One Piece Surface Non-Metallic Divided Raceway Base And Cover	7.46	1.89
For Concrete Or Masonry Surface, Add	0.19	
26 05 33 23-0476 EA #2300WC Wire Clip	4.38	1.89
26 05 33 23-0477 EA #2306 Cover Clip.....	4.60	1.89
26 05 33 23-0478 EA #2310A Entrance End Fitting.....	13.81	3.80
26 05 33 23-0479 EA #2310B Blank End Fitting	8.85	3.80
26 05 33 23-0480 EA #2310DFO Divided Entrance End Fitting.....	15.50	3.80
26 05 33 23-0481 EA #2311 Flat 90 Degree Elbow	9.85	3.80
26 05 33 23-0482 EA #2311DFO Divided Flat 90 Degree Elbow	10.57	3.80
26 05 33 23-0483 EA #2315 Tee.....	12.25	4.74
26 05 33 23-0484 EA #2317 Internal Elbow	9.85	3.80
26 05 33 23-0485 EA #2317DFO Divided Internal Elbow.....	10.58	3.80
26 05 33 23-0486 EA #2318 External Elbow	9.87	3.80
26 05 33 23-0487 EA #2318DFO Divided External Elbow.....	10.71	3.80
26 05 33 23-0488 EA #2389 End Reducer, #2300 To #400.....	10.72	3.80
26 05 33 23-0489 EA #2389A End Reducer, #2300 To #800.....	11.18	3.80



		Electrical	26
		Common Work Results For Electrical	26 05
		Raceway And Boxes For Electrical Systems	26 05 33

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 33 23-0490 #400, #800 Or #2300 Fittings (26 05 33 23-0452)					
26 05 33 23-0491	EA	#2336 Blank Cover, 4-1/2" Diameter	11.87		3.32
26 05 33 23-0492	EA	#2337A Extension Box, 5-1/2" Diameter.....	19.35		3.80
26 05 33 23-0493	EA	#2338-A Fixture Box, 5-1/2" Diameter	19.46		3.80
26 05 33 23-0494	EA	#2344 Extra Deep Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide.....	17.58		3.80
26 05 33 23-0495	EA	#2344-2 Extra Deep Device Box, 2 Gang, 2-3/4" Deep x 4-3/4" Long x 4-7/8" Wide.....	20.33		3.80
26 05 33 23-0496	EA	#2344D Extra Deep Divided Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide	19.13		3.80
26 05 33 23-0497	EA	#2344SD-2A Deep Divided Device Box, 2 Gang, 2-1/4" Deep x 4-3/4" Long x 4-7/8" Wide.....	20.76		3.80
26 05 33 23-0498	EA	#2347 1-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 3" Wide.....	17.72		6.16
26 05 33 23-0499	EA	#2347-2 2-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 4-7/8" Wide.....	20.14		6.16
26 05 33 23-0500	EA	#2348 1-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide.....	18.42		6.16
26 05 33 23-0501	EA	#2348-2 2-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 4-7/8" Wide.....	22.07		6.16
26 05 33 23-0502	EA	#2348-3 3-Gang Deep Device Box, 1-3/4" Deep x 5" Long x 7" Wide.....	26.32		6.16
26 05 33 23-0503	EA	#2348AMP 1-Gang Deep Device Box With Magnetic Backing, 1-3/4" Deep x 4-3/4" Long x 3" Wide	24.97		6.16
26 05 33 23-0504	EA	#2348D 1-Gang Divided Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide	22.65		6.16
26 05 33 23-0505	EA	#2348S/51 Shallow Device And Extension Box, 7/8" Deep x 4-3/4" Long x 3" Wide.....	17.35		6.16
26 05 33 23-0506 #2700, 3/4" x 3/8" (26 05 33 23-0452)					
26 05 33 23-0507	LF	#2700, 3/4" x 3/8" One Piece Surface Non-Metallic Raceway Base And Cover.....	5.01		1.89
		For Concrete Or Masonry Surface, Add	0.19		
26 05 33 23-0508	EA	#2700WC 3/4" Wire Clip	2.15		0.95
26 05 33 23-0509	EA	#2706 Cover Clip	3.17		0.95
26 05 33 23-0510	EA	#2710B Blank End	5.07		1.89
26 05 33 23-0511	EA	#2711 Flat 90 Degree Elbow	6.04		2.37
26 05 33 23-0512	EA	#2715 Tee.....	9.85		4.27
26 05 33 23-0513	EA	#2717 Internal Elbow.....	6.99		2.85
26 05 33 23-0514	EA	#2718 External Elbow	6.98		2.85
26 05 33 23-0515	EA	#2786 Drop Ceiling Connector.....	8.24		3.32
26 05 33 23-0516 #2800, 1" x 1/2" (26 05 33 23-0452)					
26 05 33 23-0517	LF	#2800, 1" x 1/2" One Piece Surface Non-Metallic Raceway Base And Cover.....	6.43		2.37
		For Concrete Or Masonry Surface, Add	0.24		
26 05 33 23-0518	EA	#2800WC 1" Wire Clip	3.21		1.42
26 05 33 23-0519	EA	#2806 Cover Clip	4.22		1.42
26 05 33 23-0520	EA	#2810B Blank End	6.11		2.37
26 05 33 23-0521	EA	#2811 Flat 90 Degree Elbow	8.07		3.32
26 05 33 23-0522	EA	#2811FO Radiused Flat 90 Degree Elbow	8.57		3.32
26 05 33 23-0523	EA	#2815 Tee.....	11.86		5.22
26 05 33 23-0524	EA	#2817 Internal Elbow	9.00		3.80
26 05 33 23-0525	EA	#2818 External Elbow.....	9.02		3.80
26 05 33 23-0526	EA	#2815FO Radiused Tee	12.53		5.22
26 05 33 23-0527	EA	#2817FO Radiused Internal Elbow	9.60		3.80
26 05 33 23-0528	EA	#2818FO Radiused External Elbow.....	9.52		3.80
26 05 33 23-0529	EA	#2886 Drop Ceiling Connector.....	10.16		4.27
26 05 33 23-0530	EA	#2889 2800-2700 Reducer	9.14		3.80
26 05 33 23-0531 #2900, 1-1/2" x 3/4" (26 05 33 23-0452)					
26 05 33 23-0532	LF	#2900, 1-1/2" x 3/4" One Piece Surface Non-Metallic Raceway Base And Cover.....	7.82		2.85
		For Concrete Or Masonry Surface, Add	0.28		
26 05 33 23-0533	EA	#2900WC 1-1/2" Wire Clip.....	4.25		1.89
26 05 33 23-0534	EA	#2906 Cover Clip	5.28		1.89
26 05 33 23-0535	EA	#2910B Blank End.....	7.17		2.85
26 05 33 23-0536	EA	#2911 Flat 90 Degree Elbow	9.08		3.80
26 05 33 23-0537	EA	#2911FO Radiused Flat 90 Degree Elbow	9.86		3.80
26 05 33 23-0538	EA	#2915 Tee.....	12.87		5.69
26 05 33 23-0539	EA	#2915FO Radiused Tee	13.67		5.69
26 05 33 23-0540	EA	#2917 Internal Elbow.....	10.03		4.27
26 05 33 23-0541	EA	#2917FO Radiused Internal Elbow	10.84		4.27
26 05 33 23-0542	EA	#2918 External Elbow.....	10.02		4.27
26 05 33 23-0543	EA	#2918FO Radiused External Elbow.....	11.07		4.27
26 05 33 23-0544	EA	#2986 Drop Ceiling Connector.....	10.16		4.27
26 05 33 23-0545	EA	#2989 2900-2800 Reducer	11.29		4.74
26 05 33 23-0546	EA	#2989A 2900-2700 Reducer.....	11.02		4.74
26 05 33 23-0547 Two Piece Surface Non-Metallic Raceways (26 05 33 23-0451)					
Note: Exposed on flat wall surface. Labor units include material unloading, unpacking at job site, layout of job, assembly and installation. (Wiremold or approved equal).					
26 05 33 23-0548 #5000, 5" x 1" (26 05 33 23-0547)					
26 05 33 23-0549	LF	#5000B, 5" x 1" Two Piece Surface Non-Metallic Raceway Base	12.38		4.27
		For Concrete Or Masonry Surface, Add	0.43		
26 05 33 23-0550	LF	#5000C Cover, Black, Gray Or White.....	11.79		4.27
26 05 33 23-0551	LF	#5000COA Cover, Oak Veneer	21.76		4.27
26 05 33 23-0552	LF	#5000CW Cover, Maple Wood Veneer.....	17.82		4.27
26 05 33 23-0553	LF	#5000T Quarter Round Trim, Black, Gray Or White	1.66		0.47

26 Electrical**26 05 Common Work Results For Electrical****26 05 33 Raceway And Boxes For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0554	LF		#5000TOA Quarter Round Trim, Oak Veneer.....	6.66	0.47
26 05 33 23-0555	LF		#5000TW Quarter Round Trim, Maple Wood Veneer	4.15	0.47
26 05 33 23-0556	EA		#5001 Base Coupling.....	11.51	4.74
26 05 33 23-0557	EA		#5004 Blank/Coax Adapter	6.42	2.37
26 05 33 23-0558	EA		#5005 Low Voltage Blank Plate	8.54	2.85
26 05 33 23-0559	EA		#5006 Cover Clip	12.35	4.74
26 05 33 23-0560	EA		#5006A Internal Wire Guard	11.59	4.74
26 05 33 23-0561	EA		#5007C Device Bracket	13.15	4.74
26 05 33 23-0562	EA		#5007C-1 Device Plate	23.92	9.49
26 05 33 23-0563	EA		#5007C-2 Deep Device Plate	24.72	9.49
26 05 33 23-0564	EA		#5010 End Cap, Right Or Left.....	20.94	9.01
26 05 33 23-0565	EA		#5010A Entrance End Feed.....	40.26	14.70
26 05 33 23-0566	EA		#5017B Internal Base Elbow.....	28.15	11.85
26 05 33 23-0567	EA		#5017C Internal Cover Elbow	25.25	9.49
26 05 33 23-0568	EA		#5017WG Internal Elbow Wire Guard.....	17.38	7.11
26 05 33 23-0569	EA		#5018B External Base Elbow	28.10	11.85
26 05 33 23-0570	EA		#5018C External Cover Elbow.....	25.47	9.49
26 05 33 23-0571	EA		#5018WG External Elbow Wire Guard.....	11.37	4.74
26 05 33 23-0572 #5400, 5-1/4" x 1-11/16" (26 05 33 23-0547)					
26 05 33 23-0573	LF		#5400TB Two Compartment, 5-1/4" x 1-11/16" Two Piece Surface Non-Metallic Raceway Base.....	13.04	4.27
			<i>For Concrete Or Masonry Surface, Add</i>	0.43	
26 05 33 23-0574	LF		#5400C Full Width Cover	4.25	0.47
26 05 33 23-0575	LF		#5400TC Twin Snap Cover.....	2.78	0.47
26 05 33 23-0576	EA		#5400TWC Twin Snap Cover Wire Clips.....	5.22	2.37
26 05 33 23-0577	EA		#5406A Cover Clip.....	8.49	2.85
26 05 33 23-0578	EA		#5406T Twin Cover Clip	7.28	2.85
26 05 33 23-0579	EA		#5406TB Base Seam Clip.....	6.59	2.85
26 05 33 23-0580	EA		#5408 L Or R (Left Or Right) Transition Fitting	47.99	14.70
26 05 33 23-0581	EA		#5410 End Cap.....	24.01	9.01
26 05 33 23-0582	EA		#5410DFO Radiused Divided Entrance Cap Fitting.....	46.20	14.70
26 05 33 23-0583	EA		#5411FO Radiused Flat 90 Degree Elbow	41.74	11.85
26 05 33 23-0584	EA		#5415 Tee Fitting.....	48.41	14.70
26 05 33 23-0585	EA		#5415FO Radiused Tee Fitting.....	50.50	14.70
26 05 33 23-0586	EA		#5417FO Radiused Internal Elbow	40.74	14.70
26 05 33 23-0587	EA		#5418 External Elbow	41.26	14.70
26 05 33 23-0588	EA		#5418FO Radiused External Elbow.....	41.74	14.70
26 05 33 23-0589	EA		#5450 5-5/32" x 6" Device Bracket	19.08	4.74
26 05 33 23-0590	EA		#5450A3 7-19/32" x 7-1/2" Device Bracket.....	24.78	4.74
26 05 33 23-0591	EA		#5450T 2-1/2" x 4-7/8" Twin Snap Device Bracket	14.86	4.74
26 05 33 23-0592	EA		#5474 Transition Fitting	42.73	14.70
26 05 33 23-0593 #5500, 6-11/16" x 1-11/16" (26 05 33 23-0547)					
26 05 33 23-0594	LF		#5500BD3 Three Compartment Divided, 6-11/16" x 1-11/16" Two Piece Surface Non-Metallic Raceway Base.....	16.03	4.27
			<i>For Concrete Or Masonry Surface, Add</i>	0.43	
26 05 33 23-0595	LF		#5500C Cover.....	5.54	0.47
26 05 33 23-0596	EA		#5500WC Wire Clips.....	5.98	2.37
26 05 33 23-0597	EA		#5506 Cover Clip	9.45	2.85
26 05 33 23-0598	EA		#5506B Base Seam Clip Fitting	6.91	2.85
26 05 33 23-0599	EA		#5507AD Modular Furniture Adapter	8.86	2.85
26 05 33 23-0600	EA		#5507B Blank Faceplate.....	8.89	2.85
26 05 33 23-0601	EA		#5507D Duplex Receptacle Faceplate.....	8.94	2.85
26 05 33 23-0602	EA		#5507FRJ Dual RJ Connector Faceplate	8.94	2.85
26 05 33 23-0603	EA		#5507R Rectangular Receptacle Faceplate	8.85	2.85
26 05 33 23-0604	EA		#5507RJ Dual RJ Connector Faceplate.....	8.87	2.85
26 05 33 23-0605	EA		#5507S Rectangular Spacer Fitting	8.81	2.85
26 05 33 23-0606	EA		#5507SW Switch Faceplate	8.83	2.85
26 05 33 23-0607	EA		#5507T1 Twistlock Faceplate	8.89	2.85
26 05 33 23-0608	EA		#5507T2 Single Receptacle Faceplate	8.72	2.85
26 05 33 23-0609	EA		#5550 6-5/8" x 6" Device Bracket	22.57	4.74
26 05 33 23-0610	EA		#5550A4 9-5/8" x 7-1/2" Device Bracket.....	29.92	4.74
26 05 33 23-0611	EA		#5510 End Cap.....	25.85	9.01
26 05 33 23-0612	EA		#5510D Entrance End Fitting.....	52.09	14.70
26 05 33 23-0613	EA		#5511FO Radiused Flat 90 Degree Elbow	47.16	11.85
26 05 33 23-0614	EA		#5514A Backfeed Connector	38.48	11.85
26 05 33 23-0615	EA		#5515 Tee Fitting.....	54.57	14.70
26 05 33 23-0616	EA		#5517FO Radiused Internal Elbow	44.50	14.70
26 05 33 23-0617	EA		#5518 External Elbow	45.51	14.70
26 05 33 23-0618	EA		#5518FO Radiused External Elbow.....	47.63	14.70
26 05 33 23-0619	EA		#5574 Transition Fitting	43.49	14.70
26 05 33 23-0620	EA		#5574A Transition Fitting	57.25	14.70

26 05 36 Cable Trays For Electrical Systems (26 05)**26 05 36 00-0001 Cable Trays (26 05 36)**

Note: Excludes supporting hangers.

26 05 36 00-0002 Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0001)



Electrical		26
Common Work Results For Electrical		26 05
Cable Trays For Electrical Systems		26 05 36

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0003	4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0002)		
26 05 36 00-0004	4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0005	LF 6" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	26.43 -1.81	9.96
26 05 36 00-0006	LF 9" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	28.45 -1.96	10.69
26 05 36 00-0007	LF 12" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	31.03 -2.14	11.52
26 05 36 00-0008	LF 18" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	34.03 -2.39	12.24
26 05 36 00-0009	LF 24" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	36.75 -2.62	12.66
26 05 36 00-0010	LF 30" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	44.16 -3.20	14.63
26 05 36 00-0011	LF 36" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	49.79 -3.59	16.71
26 05 36 00-0012	6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0013	LF 6" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	25.22 -1.71	9.76
26 05 36 00-0014	LF 9" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	27.14 -1.85	10.38
26 05 36 00-0015	LF 12" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	29.11 -1.97	11.31
26 05 36 00-0016	LF 18" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	31.53 -2.16	11.93
26 05 36 00-0017	LF 24" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	33.60 -2.33	12.35
26 05 36 00-0018	LF 30" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	39.29 -2.75	14.22
26 05 36 00-0019	LF 36" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	42.99 -3.00	15.57
26 05 36 00-0020	9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0021	LF 6" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	24.44 -1.64	9.65
26 05 36 00-0022	LF 9" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	25.23 -1.69	9.96
26 05 36 00-0023	LF 12" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	27.45 -1.87	10.58
26 05 36 00-0024	LF 18" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	29.73 -2.05	11.10
26 05 36 00-0025	LF 24" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	31.74 -2.22	11.41
26 05 36 00-0026	LF 30" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	34.55 -2.42	12.45
26 05 36 00-0027	LF 36" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	37.23 -2.60	13.48
26 05 36 00-0028	12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0029	LF 6" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	23.65 -1.59	9.24
26 05 36 00-0030	LF 9" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	24.13 -1.63	9.45
26 05 36 00-0031	LF 12" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	25.52 -1.72	9.96
26 05 36 00-0032	LF 18" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	26.97 -1.83	10.48
26 05 36 00-0033	LF 24" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	27.76 -1.90	10.48
26 05 36 00-0034	LF 30" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	30.47 -2.11	11.31
26 05 36 00-0035	LF 36" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	32.07 -2.22	11.83
26 05 36 00-0036	18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray (26 05 36 00-0003)		
26 05 36 00-0037	LF 6" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	23.28 -1.57	9.03
26 05 36 00-0038	LF 9" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	23.71 -1.60	9.24

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0039 LF 12" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	25.09 -1.70	9.76
26 05 36 00-0040 LF 18" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	26.31 -1.78	10.17
26 05 36 00-0041 LF 24" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	26.67 -1.81	10.27
26 05 36 00-0042 LF 30" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	28.43 -1.92	11.00
26 05 36 00-0043 LF 36" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	29.72 -2.01	11.62
26 05 36 00-0044 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0045 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0046 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	226.35 -13.97	104.07
26 05 36 00-0047 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	254.72 -15.59	118.49
26 05 36 00-0048 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	280.55 -17.14	131.04
26 05 36 00-0049 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	348.39 -21.45	160.62
26 05 36 00-0050 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	398.12 -24.45	184.38
26 05 36 00-0051 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	465.23 -29.23	207.52
26 05 36 00-0052 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	534.84 -33.72	237.19
26 05 36 00-0053 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0054 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	289.66 -19.95	108.22
26 05 36 00-0055 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	319.98 -21.63	124.40
26 05 36 00-0056 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	347.41 -23.21	138.31
26 05 36 00-0057 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	412.39 -26.92	171.83
26 05 36 00-0058 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	467.46 -30.14	199.32
26 05 36 00-0059 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	524.13 -33.56	226.19
26 05 36 00-0060 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	611.54 -39.32	261.99
26 05 36 00-0061 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0062 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	309.56 -21.53	113.10
26 05 36 00-0063 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	345.92 -23.68	130.94
26 05 36 00-0064 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	377.91 -25.58	146.51
26 05 36 00-0065 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	460.32 -30.67	184.38
26 05 36 00-0066 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	528.88 -34.85	216.44



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 36 00-0067	EA	30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	616.76	249.03	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.92		
26 05 36 00-0068	EA	36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	707.82	292.60	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.40		
26 05 36 00-0069 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0070	EA	6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	166.86	75.43	
		For 60 Degree Bend, Deduct	-26.16		
		For 30 Degree Bend, Deduct	-47.79		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.40		
26 05 36 00-0071	EA	9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	193.60	90.48	
		For 60 Degree Bend, Deduct	-29.22		
		For 30 Degree Bend, Deduct	-53.72		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.82		
26 05 36 00-0072	EA	12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	217.48	103.76	
		For 60 Degree Bend, Deduct	-31.99		
		For 30 Degree Bend, Deduct	-59.09		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.10		
26 05 36 00-0073	EA	18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	265.60	131.15	
		For 60 Degree Bend, Deduct	-37.39		
		For 30 Degree Bend, Deduct	-69.59		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.63		
26 05 36 00-0074	EA	24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	328.22	160.62	
		For 60 Degree Bend, Deduct	-46.74		
		For 30 Degree Bend, Deduct	-86.83		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.44		
26 05 36 00-0075	EA	30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	384.67	184.38	
		For 60 Degree Bend, Deduct	-56.25		
		For 30 Degree Bend, Deduct	-104.00		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.10		
26 05 36 00-0076	EA	36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	441.46	216.44	
		For 60 Degree Bend, Deduct	-62.70		
		For 30 Degree Bend, Deduct	-116.53		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.11		
26 05 36 00-0077 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0078	EA	6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	181.74	77.82	
		For 60 Degree Bend, Deduct	-30.16		
		For 30 Degree Bend, Deduct	-54.59		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.69		
26 05 36 00-0079	EA	9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	211.84	93.80	
		For 60 Degree Bend, Deduct	-33.94		
		For 30 Degree Bend, Deduct	-61.79		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.37		
26 05 36 00-0080	EA	12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	242.71	108.32	
		For 60 Degree Bend, Deduct	-38.58		
		For 30 Degree Bend, Deduct	-70.31		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.25		
26 05 36 00-0081	EA	18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	294.45	138.31	
		For 60 Degree Bend, Deduct	-44.14		
		For 30 Degree Bend, Deduct	-81.25		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.92		
26 05 36 00-0082	EA	24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	363.64	171.83	
		For 60 Degree Bend, Deduct	-54.15		
		For 30 Degree Bend, Deduct	-99.79		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.05		
26 05 36 00-0083	EA	30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	424.59	199.32	
		For 60 Degree Bend, Deduct	-63.72		
		For 30 Degree Bend, Deduct	-117.28		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.85		
26 05 36 00-0084	EA	36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	501.34	237.29	
		For 60 Degree Bend, Deduct	-74.49		
		For 30 Degree Bend, Deduct	-137.34		
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.36		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-0085	36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0086	EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	208.59		80.31	
	For 60 Degree Bend, Deduct	-38.07			
	For 30 Degree Bend, Deduct	-67.90			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.17			
26 05 36 00-0087	EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	241.54		97.53	
	For 60 Degree Bend, Deduct	-42.33			
	For 30 Degree Bend, Deduct	-75.96			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.03			
26 05 36 00-0088	EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	269.35		113.20	
	For 60 Degree Bend, Deduct	-45.49			
	For 30 Degree Bend, Deduct	-82.11			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.50			
26 05 36 00-0089	EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	331.68		146.51	
	For 60 Degree Bend, Deduct	-53.27			
	For 30 Degree Bend, Deduct	-96.93			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.96			
26 05 36 00-0090	EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.80		184.38	
	For 60 Degree Bend, Deduct	-61.25			
	For 30 Degree Bend, Deduct	-112.32			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.61			
26 05 36 00-0091	EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	480.13		216.44	
	For 60 Degree Bend, Deduct	-75.47			
	For 30 Degree Bend, Deduct	-137.80			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.97			
26 05 36 00-0092	EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	569.51		261.99	
	For 60 Degree Bend, Deduct	-87.50			
	For 30 Degree Bend, Deduct	-160.39			
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.12			
26 05 36 00-0093	12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0094	EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	238.22		103.76	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.18			
26 05 36 00-0095	EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	264.35		118.49	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.56			
26 05 36 00-0096	EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	287.40		131.04	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.82			
26 05 36 00-0097	EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	339.75		160.62	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.59			
26 05 36 00-0098	EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	382.39		184.38	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.87			
26 05 36 00-0099	EA 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	426.92		207.52	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.40			
26 05 36 00-0100	EA 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	478.89		236.88	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.15			
26 05 36 00-0101	24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0102	EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	272.70		108.22	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.25			
26 05 36 00-0103	EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	302.08		124.51	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.83			
26 05 36 00-0104	EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	328.89		138.31	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.36			
26 05 36 00-0105	EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	389.88		171.83	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.67			
26 05 36 00-0106	EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	440.95		199.32	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.49			



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		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 05 36 00-0107	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	491.86		226.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.33		
26 05 36 00-0108	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	565.79		261.99
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.74		
26 05 36 00-0109 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0110	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	313.10		113.10
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.88		
26 05 36 00-0111	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	347.44		131.04
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.83		
26 05 36 00-0112	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	374.85		146.51
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.27		
26 05 36 00-0113	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	448.43		184.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.48		
26 05 36 00-0114	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	503.36		216.44
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.30		
26 05 36 00-0115	EA	30" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	577.14		249.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.96		
26 05 36 00-0116	EA	36" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	660.20		292.60
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.64		
26 05 36 00-0117 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0118	EA	6" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	436.72		199.32
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.07		
26 05 36 00-0119	EA	9" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	473.16		216.44
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.28		
26 05 36 00-0120	EA	12" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	495.67		226.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.72		
26 05 36 00-0121	EA	18" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	550.84		249.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.33		
26 05 36 00-0122	EA	24" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	619.97		276.41
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.96		
26 05 36 00-0123	EA	30" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	678.95		293.12
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.47		
26 05 36 00-0124	EA	36" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	768.51		331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.20		
26 05 36 00-0125 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)					
26 05 36 00-0126	EA	6" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	524.68		216.44
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.43		
26 05 36 00-0127	EA	9" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	567.14		237.29
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.94		
26 05 36 00-0128	EA	12" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	592.99		249.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.55		
26 05 36 00-0129	EA	18" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	574.26		276.41
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.39		
26 05 36 00-0130	EA	24" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	727.98		311.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.86		
26 05 36 00-0131	EA	30" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	781.00		331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.45		
26 05 36 00-0132	EA	36" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	930.82		383.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.14		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-0133	36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0134	EA 6" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	640.51		237.29	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.28			
26 05 36 00-0135	EA 9" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	691.15		261.99	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.28			
26 05 36 00-0136	EA 12" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	732.36		276.41	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.20			
26 05 36 00-0137	EA 18" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	810.71		311.28	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.13			
26 05 36 00-0138	EA 24" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	921.61		355.38	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.55			
26 05 36 00-0139	EA 30" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	997.95		383.39	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.85			
26 05 36 00-0140	EA 36" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,139.65		452.39	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.26			
26 05 36 00-0141	12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0142	EA 6" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	485.30		184.38	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.16			
26 05 36 00-0143	EA 9" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	498.97		191.64	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.92			
26 05 36 00-0144	EA 12" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	513.21		199.32	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.71			
26 05 36 00-0145	EA 18" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	544.97		216.44	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.46			
26 05 36 00-0146	EA 24" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	564.35		226.19	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.58			
26 05 36 00-0147	EA 30" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	614.84		249.03	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.73			
26 05 36 00-0148	EA 36" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	668.36		276.41	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.80			
26 05 36 00-0149	24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0150	EA 6" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	653.70		199.32	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.76			
26 05 36 00-0151	EA 9" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	672.13		207.52	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.92			
26 05 36 00-0152	EA 12" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	691.71		216.44	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.13			
26 05 36 00-0153	EA 18" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	735.74		237.29	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.80			
26 05 36 00-0154	EA 24" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	764.70		249.03	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.72			
26 05 36 00-0155	EA 30" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	819.78		276.41	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.94			
26 05 36 00-0156	EA 36" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	893.45		311.28	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.41			
26 05 36 00-0157	36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0158	EA 6" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	961.77		216.44	
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.14			



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26 05 36 00-0159	EA	9" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	985.83	226.19
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.73	
26 05 36 00-0160	EA	12" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,012.04	237.29
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.43	
26 05 36 00-0161	EA	18" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,061.11	261.99
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.28	
26 05 36 00-0162	EA	24" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,092.96	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.26	
26 05 36 00-0163	EA	30" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,174.43	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.50	
26 05 36 00-0164	EA	36" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,255.67	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.96	
26 05 36 00-0165 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0166	EA	6" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	544.60	249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.71	
26 05 36 00-0167	EA	9" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	572.51	261.99
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.42	
26 05 36 00-0168	EA	12" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	609.04	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.87	
26 05 36 00-0169	EA	18" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	650.85	293.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.66	
26 05 36 00-0170	EA	24" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	734.17	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.76	
26 05 36 00-0171	EA	30" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	809.21	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.31	
26 05 36 00-0172	EA	36" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	880.87	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.14	
26 05 36 00-0173 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0174	EA	6" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	712.07	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.17	
26 05 36 00-0175	EA	9" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	747.63	293.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.34	
26 05 36 00-0176	EA	12" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	785.74	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.63	
26 05 36 00-0177	EA	18" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	837.20	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.07	
26 05 36 00-0178	EA	24" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	941.75	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.23	
26 05 36 00-0179	EA	30" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,014.86	415.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.90	
26 05 36 00-0180	EA	36" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,128.72	452.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.17	
26 05 36 00-0181 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)				
26 05 36 00-0182	EA	6" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	870.03	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.06	
26 05 36 00-0183	EA	9" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	919.93	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.34	
26 05 36 00-0184	EA	12" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	974.68	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.86	
26 05 36 00-0185	EA	18" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,060.39	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.09	

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26 05 36 00-0186 EA 24" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,222.38	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.53	
26 05 36 00-0187 EA 30" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,336.09	497.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.17	
26 05 36 00-0188 EA 36" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,469.48	553.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-100.79	
26 05 36 00-0189 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0190 EA 6" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	602.90	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.54	
26 05 36 00-0191 EA 9" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	633.76	262.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.53	
26 05 36 00-0192 EA 12" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	675.69	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.54	
26 05 36 00-0193 EA 18" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	724.09	293.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.97	
26 05 36 00-0194 EA 24" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	815.66	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.91	
26 05 36 00-0195 EA 30" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	907.13	355.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.09	
26 05 36 00-0196 EA 36" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	988.96	382.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.99	
26 05 36 00-0197 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0198 EA 6" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	825.16	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.48	
26 05 36 00-0199 EA 9" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	864.24	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.00	
26 05 36 00-0200 EA 12" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	905.86	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.65	
26 05 36 00-0201 EA 18" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	965.05	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.85	
26 05 36 00-0202 EA 24" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,078.03	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.86	
26 05 36 00-0203 EA 30" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,160.27	415.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.44	
26 05 36 00-0204 EA 36" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,297.31	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.03	
26 05 36 00-0205 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)		
26 05 36 00-0206 EA 6" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,028.09	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.87	
26 05 36 00-0207 EA 9" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,085.01	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.85	
26 05 36 00-0208 EA 12" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,146.79	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-85.07	
26 05 36 00-0209 EA 18" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,250.05	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.06	
26 05 36 00-0210 EA 24" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,433.12	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-105.61	
26 05 36 00-0211 EA 30" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,564.39	497.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-115.00	
26 05 36 00-0212 EA 36" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,715.34	553.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-125.38	



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26 05 36 00-0213	6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0214	12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0215	EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	218.78 -13.21	104.07
26 05 36 00-0216	EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	246.55 -14.78	118.49
26 05 36 00-0217	EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	271.67 -16.25	131.04
26 05 36 00-0218	EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	336.87 -20.30	160.62
26 05 36 00-0219	EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	385.15 -23.15	184.38
26 05 36 00-0220	EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	448.18 -27.52	207.52
26 05 36 00-0221	EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	514.91 -31.73	237.19
26 05 36 00-0222	24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0223	EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	274.05 -18.39	108.22
26 05 36 00-0224	EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	303.89 -20.02	124.40
26 05 36 00-0225	EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	330.72 -21.54	138.31
26 05 36 00-0226	EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	394.38 -25.12	171.83
26 05 36 00-0227	EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	448.13 -28.21	199.32
26 05 36 00-0228	EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	503.11 -31.46	226.19
26 05 36 00-0229	EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	586.56 -36.82	261.99
26 05 36 00-0230	36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0231	EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	292.27 -19.80	113.10
26 05 36 00-0232	EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	327.67 -21.86	130.94
26 05 36 00-0233	EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	358.82 -23.67	146.51
26 05 36 00-0234	EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	438.47 -28.48	184.38
26 05 36 00-0235	EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	504.87 -32.45	216.44
26 05 36 00-0236	EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	587.94 -38.04	249.03
26 05 36 00-0237	EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	676.35 -43.26	292.60
26 05 36 00-0238	12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0239	EA		6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	160.97	75.43
			For 60 Degree Bend, Deduct	-24.22	
			For 30 Degree Bend, Deduct	-44.55	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.81	
26 05 36 00-0240	EA		9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	187.47	90.48
			For 60 Degree Bend, Deduct	-27.20	
			For 30 Degree Bend, Deduct	-50.35	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.21	
26 05 36 00-0241	EA		12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	211.12	103.76
			For 60 Degree Bend, Deduct	-29.90	
			For 30 Degree Bend, Deduct	-55.59	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.47	
26 05 36 00-0242	EA		18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	258.88	131.15
			For 60 Degree Bend, Deduct	-35.17	
			For 30 Degree Bend, Deduct	-65.90	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.96	
26 05 36 00-0243	EA		24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	319.57	160.62
			For 60 Degree Bend, Deduct	-43.89	
			For 30 Degree Bend, Deduct	-82.07	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.57	
26 05 36 00-0244	EA		30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	373.62	184.38
			For 60 Degree Bend, Deduct	-52.61	
			For 30 Degree Bend, Deduct	-97.92	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.00	
26 05 36 00-0245	EA		36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	429.94	216.44
			For 60 Degree Bend, Deduct	-58.90	
			For 30 Degree Bend, Deduct	-110.20	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.96	
26 05 36 00-0246			24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0247	EA		6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	174.30	77.82
			For 60 Degree Bend, Deduct	-27.70	
			For 30 Degree Bend, Deduct	-50.49	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.95	
26 05 36 00-0248	EA		9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	203.91	93.80
			For 60 Degree Bend, Deduct	-31.33	
			For 30 Degree Bend, Deduct	-57.42	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.57	
26 05 36 00-0249	EA		12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	233.83	108.32
			For 60 Degree Bend, Deduct	-35.65	
			For 30 Degree Bend, Deduct	-65.43	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.36	
26 05 36 00-0250	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	285.33	138.31
			For 60 Degree Bend, Deduct	-41.13	
			For 30 Degree Bend, Deduct	-76.23	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.00	
26 05 36 00-0251	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	352.59	171.83
			For 60 Degree Bend, Deduct	-50.50	
			For 30 Degree Bend, Deduct	-93.72	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.94	
26 05 36 00-0252	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	411.38	199.32
			For 60 Degree Bend, Deduct	-59.37	
			For 30 Degree Bend, Deduct	-110.01	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.53	
26 05 36 00-0253	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	486.21	237.29
			For 60 Degree Bend, Deduct	-69.50	
			For 30 Degree Bend, Deduct	-129.02	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.85	
26 05 36 00-0254			36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0255	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	197.90	80.31
			For 60 Degree Bend, Deduct	-34.54	
			For 30 Degree Bend, Deduct	-62.02	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.10	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0256	EA	9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	230.25	97.53
		For 60 Degree Bend, Deduct	-38.60	
		For 30 Degree Bend, Deduct	-69.75	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.90	
26 05 36 00-0257	EA	12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	257.83	113.20
		For 60 Degree Bend, Deduct	-41.69	
		For 30 Degree Bend, Deduct	-75.78	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.35	
26 05 36 00-0258	EA	18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	319.19	146.51
		For 60 Degree Bend, Deduct	-49.15	
		For 30 Degree Bend, Deduct	-90.06	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.71	
26 05 36 00-0259	EA	24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	386.59	184.38
		For 60 Degree Bend, Deduct	-56.89	
		For 30 Degree Bend, Deduct	-105.06	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.29	
26 05 36 00-0260	EA	30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	463.08	216.44
		For 60 Degree Bend, Deduct	-69.84	
		For 30 Degree Bend, Deduct	-128.42	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.27	
26 05 36 00-0261	EA	36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	550.54	261.99
		For 60 Degree Bend, Deduct	-81.24	
		For 30 Degree Bend, Deduct	-149.95	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.22	
26 05 36 00-0262		12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0263	EA	6" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	233.00	103.76
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.65	
26 05 36 00-0264	EA	9" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	259.01	118.49
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.02	
26 05 36 00-0265	EA	12" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	281.87	131.04
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.27	
26 05 36 00-0266	EA	18" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	306.89	160.62
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.30	
26 05 36 00-0267	EA	24" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	376.39	184.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.27	
26 05 36 00-0268	EA	30" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	420.44	207.52
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.75	
26 05 36 00-0269	EA	36" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	472.16	236.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.47	
26 05 36 00-0270		24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0271	EA	6" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	265.32	108.22
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.51	
26 05 36 00-0272	EA	9" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	294.52	124.51
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.08	
26 05 36 00-0273	EA	12" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	321.02	138.31
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.57	
26 05 36 00-0274	EA	18" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	381.59	171.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.84	
26 05 36 00-0275	EA	24" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	432.25	199.32
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.62	
26 05 36 00-0276	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	482.67	226.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.42	
26 05 36 00-0277	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	555.46	261.99
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.71	
26 05 36 00-0278		36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0279	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	303.14 -20.89	113.10
26 05 36 00-0280	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	337.11 -22.79	131.04
26 05 36 00-0281	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	364.40 -24.23	146.51
26 05 36 00-0282	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	437.15 -28.35	184.38
26 05 36 00-0283	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	491.96 -31.16	216.44
26 05 36 00-0284	EA	30" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	564.17 -35.67	249.03
26 05 36 00-0285	EA	36" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	646.40 -40.26	292.60
26 05 36 00-0286 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0287	EA	6" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	428.67 -26.26	199.32
26 05 36 00-0288	EA	9" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	464.52 -28.41	216.44
26 05 36 00-0289	EA	12" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	486.54 -29.80	226.19
26 05 36 00-0290	EA	18" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	540.39 -33.29	249.03
26 05 36 00-0291	EA	24" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	607.72 -37.74	276.41
26 05 36 00-0292	EA	30" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	664.30 -42.01	293.12
26 05 36 00-0293	EA	36" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	751.94 -47.54	331.82
26 05 36 00-0294 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0295	EA	6" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	512.07 -33.17	216.44
26 05 36 00-0296	EA	9" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	553.93 -35.62	237.29
26 05 36 00-0297	EA	12" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	579.30 -37.18	249.03
26 05 36 00-0298	EA	18" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	637.98 -40.76	276.41
26 05 36 00-0299	EA	24" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	711.89 -45.25	311.28
26 05 36 00-0300	EA	30" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	763.47 -48.69	331.82
26 05 36 00-0301	EA	36" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	908.37 -58.89	383.39
26 05 36 00-0302 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0303	EA	6" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	621.66 -42.39	237.29
26 05 36 00-0304	EA	9" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	671.58 -45.32	261.99



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0305	EA	12" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	711.47		276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.11		
26 05 36 00-0306	EA	18" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	788.26		311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.89		
26 05 36 00-0307	EA	24" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	896.27		355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.02		
26 05 36 00-0308	EA	30" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	970.33		383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.09		
26 05 36 00-0309	EA	36" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,109.99		452.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.30		
26 05 36 00-0310 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting					
		<i>(26 05 36 00-0213)</i>			
26 05 36 00-0311	EA	6" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	471.61		184.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.79		
26 05 36 00-0312	EA	9" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	485.16		191.64
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.54		
26 05 36 00-0313	EA	12" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	499.28		199.32
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.32		
26 05 36 00-0314	EA	18" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	530.80		216.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.04		
26 05 36 00-0315	EA	24" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	549.94		226.19
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.14		
26 05 36 00-0316	EA	30" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	599.47		249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.20		
26 05 36 00-0317	EA	36" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	652.39		276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.20		
26 05 36 00-0318 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting					
		<i>(26 05 36 00-0213)</i>			
26 05 36 00-0319	EA	6" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	628.97		199.32
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.29		
26 05 36 00-0320	EA	9" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	647.03		207.52
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.41		
26 05 36 00-0321	EA	12" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	666.25		216.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.59		
26 05 36 00-0322	EA	18" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	709.56		237.29
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.18		
26 05 36 00-0323	EA	24" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	737.80		249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.03		
26 05 36 00-0324	EA	30" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	792.16		276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.18		
26 05 36 00-0325	EA	36" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	864.63		311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.52		
26 05 36 00-0326 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting					
		<i>(26 05 36 00-0213)</i>			
26 05 36 00-0327	EA	6" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	915.54		216.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.52		
26 05 36 00-0328	EA	9" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	939.00		226.19
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.05		
26 05 36 00-0329	EA	12" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	964.61		237.29
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.69		
26 05 36 00-0330	EA	18" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,013.08		261.99
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.47		
26 05 36 00-0331	EA	24" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,044.33		276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.40		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0332	EA	30" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,124.00	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.46	
26 05 36 00-0333	EA	36" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,204.64	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.85	
26 05 36 00-0334 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0335	EA	6" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	534.63	249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.71	
26 05 36 00-0336	EA	9" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	562.06	261.99
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.37	
26 05 36 00-0337	EA	12" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	597.63	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.73	
26 05 36 00-0338	EA	18" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	638.36	293.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.41	
26 05 36 00-0339	EA	24" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	720.24	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.37	
26 05 36 00-0340	EA	30" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	792.52	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.64	
26 05 36 00-0341	EA	36" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	862.26	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.28	
26 05 36 00-0342 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0343	EA	6" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	692.73	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.24	
26 05 36 00-0344	EA	9" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	727.70	293.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.35	
26 05 36 00-0345	EA	12" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	765.20	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.58	
26 05 36 00-0346	EA	18" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	815.34	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.88	
26 05 36 00-0347	EA	24" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	918.46	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.90	
26 05 36 00-0348	EA	30" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	990.01	415.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.41	
26 05 36 00-0349	EA	36" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,099.90	452.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.29	
26 05 36 00-0350 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)				
26 05 36 00-0351	EA	6" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	843.01	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.36	
26 05 36 00-0352	EA	9" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	891.71	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.52	
26 05 36 00-0353	EA	12" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	945.26	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.91	
26 05 36 00-0354	EA	18" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,027.97	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.85	
26 05 36 00-0355	EA	24" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,186.36	452.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.93	
26 05 36 00-0356	EA	30" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,297.06	497.21
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.27	
26 05 36 00-0357	EA	36" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,427.45	553.87
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-96.59	



		Electrical	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0358 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0359 EA 6" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	588.45	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.09	
26 05 36 00-0360 EA 9" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	618.62	262.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.02	
26 05 36 00-0361 EA 12" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	659.15	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.88	
26 05 36 00-0362 EA 18" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	705.99	293.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.16	
26 05 36 00-0363 EA 24" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	795.46	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.89	
26 05 36 00-0364 EA 30" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	882.92	355.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.67	
26 05 36 00-0365 EA 36" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	961.97	382.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.29	
26 05 36 00-0366 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0367 EA 6" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	797.13	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.68	
26 05 36 00-0368 EA 9" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	835.34	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.11	
26 05 36 00-0369 EA 12" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	876.08	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.67	
26 05 36 00-0370 EA 18" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	933.36	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.68	
26 05 36 00-0371 EA 24" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,044.25	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.48	
26 05 36 00-0372 EA 30" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,124.23	415.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.84	
26 05 36 00-0373 EA 36" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,255.52	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-87.85	
26 05 36 00-0374 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0213)		
26 05 36 00-0375 EA 6" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	988.91	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.95	
26 05 36 00-0376 EA 9" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,044.10	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.76	
26 05 36 00-0377 EA 12" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,104.13	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.80	
26 05 36 00-0378 EA 18" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,203.04	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.36	
26 05 36 00-0379 EA 24" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,380.89	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-100.39	
26 05 36 00-0380 EA 30" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,507.80	497.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.34	
26 05 36 00-0381 EA 36" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,654.40	553.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-119.28	
26 05 36 00-0382 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0383 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0384 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....211.21		104.07
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.45	
26 05 36 00-0385 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....238.39		118.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.96	
26 05 36 00-0386 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....262.78		131.04
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.36	
26 05 36 00-0387 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....325.34		160.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.15	
26 05 36 00-0388 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....372.18		184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.85	
26 05 36 00-0389 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....431.13		207.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.82	
26 05 36 00-0390 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....494.98		237.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.73	
26 05 36 00-0391 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0392 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....258.44		108.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.82	
26 05 36 00-0393 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....287.80		124.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.41	
26 05 36 00-0394 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....314.03		138.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.87	
26 05 36 00-0395 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....376.37		171.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.32	
26 05 36 00-0396 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....428.79		199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.27	
26 05 36 00-0397 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....482.10		226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.36	
26 05 36 00-0398 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....561.58		261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.32	
26 05 36 00-0399 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0400 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....274.98		113.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.07	
26 05 36 00-0401 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....309.42		130.94
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.03	
26 05 36 00-0402 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....339.72		146.51
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.76	
26 05 36 00-0403 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....416.61		184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.29	
26 05 36 00-0404 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....480.85		216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.05	
26 05 36 00-0405 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....559.13		249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.16	
26 05 36 00-0406 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....644.89		292.60
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.11	
26 05 36 00-0407 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0408 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....155.09		75.43
For 60 Degree Bend, Deduct	-22.28	
For 30 Degree Bend, Deduct	-41.32	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.23	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 36 00-0409	EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	181.35		90.48
	For 60 Degree Bend, Deduct	-25.18		
	For 30 Degree Bend, Deduct	-46.99		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.60		
26 05 36 00-0410	EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	204.75		103.76
	For 60 Degree Bend, Deduct	-27.79		
	For 30 Degree Bend, Deduct	-52.09		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.83		
26 05 36 00-0411	EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	252.15		131.15
	For 60 Degree Bend, Deduct	-32.95		
	For 30 Degree Bend, Deduct	-62.20		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.29		
26 05 36 00-0412	EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	310.93		160.62
	For 60 Degree Bend, Deduct	-41.04		
	For 30 Degree Bend, Deduct	-77.32		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.71		
26 05 36 00-0413	EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	362.58		184.38
	For 60 Degree Bend, Deduct	-48.96		
	For 30 Degree Bend, Deduct	-91.85		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.89		
26 05 36 00-0414	EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	418.41		216.44
	For 60 Degree Bend, Deduct	-55.10		
	For 30 Degree Bend, Deduct	-103.86		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.80		
26 05 36 00-0415	24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)			
26 05 36 00-0416	EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	166.85		77.82
	For 60 Degree Bend, Deduct	-25.25		
	For 30 Degree Bend, Deduct	-46.40		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.20		
26 05 36 00-0417	EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	195.99		93.80
	For 60 Degree Bend, Deduct	-28.71		
	For 30 Degree Bend, Deduct	-53.07		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.78		
26 05 36 00-0418	EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	224.94		108.32
	For 60 Degree Bend, Deduct	-32.71		
	For 30 Degree Bend, Deduct	-60.54		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.47		
26 05 36 00-0419	EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	276.20		138.31
	For 60 Degree Bend, Deduct	-38.11		
	For 30 Degree Bend, Deduct	-71.21		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.09		
26 05 36 00-0420	EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	341.55		171.83
	For 60 Degree Bend, Deduct	-46.86		
	For 30 Degree Bend, Deduct	-87.64		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.84		
26 05 36 00-0421	EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	398.17		199.32
	For 60 Degree Bend, Deduct	-55.01		
	For 30 Degree Bend, Deduct	-102.75		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.21		
26 05 36 00-0422	EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	471.08		237.29
	For 60 Degree Bend, Deduct	-64.51		
	For 30 Degree Bend, Deduct	-120.69		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.34		
26 05 36 00-0423	36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)			
26 05 36 00-0424	EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	187.22		80.31
	For 60 Degree Bend, Deduct	-31.01		
	For 30 Degree Bend, Deduct	-56.15		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.03		
26 05 36 00-0425	EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	218.97		97.53
	For 60 Degree Bend, Deduct	-34.88		
	For 30 Degree Bend, Deduct	-63.55		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.77		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0426	EA	12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	246.30	113.20
		For 60 Degree Bend, Deduct	-37.89	
		For 30 Degree Bend, Deduct	-69.43	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.20	
26 05 36 00-0427	EA	18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	306.70	146.51
		For 60 Degree Bend, Deduct	-45.03	
		For 30 Degree Bend, Deduct	-83.19	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.46	
26 05 36 00-0428	EA	24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	373.38	184.38
		For 60 Degree Bend, Deduct	-52.53	
		For 30 Degree Bend, Deduct	-97.79	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.97	
26 05 36 00-0429	EA	30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	446.03	216.44
		For 60 Degree Bend, Deduct	-64.21	
		For 30 Degree Bend, Deduct	-119.05	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.56	
26 05 36 00-0430	EA	36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	531.56	261.99
		For 60 Degree Bend, Deduct	-74.97	
		For 30 Degree Bend, Deduct	-139.51	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.32	
26 05 36 00-0431		12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0432	EA	6" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	225.16	103.76
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.87	
26 05 36 00-0433	EA	9" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	251.00	118.49
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.22	
26 05 36 00-0434	EA	12" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	273.59	131.04
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.44	
26 05 36 00-0435	EA	18" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	325.34	160.62
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.15	
26 05 36 00-0436	EA	24" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	367.38	184.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.37	
26 05 36 00-0437	EA	30" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	410.71	207.52
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.78	
26 05 36 00-0438	EA	36" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	462.07	236.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.47	
26 05 36 00-0439		24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0440	EA	6" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	254.24	108.22
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.40	
26 05 36 00-0441	EA	9" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	283.17	124.51
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.94	
26 05 36 00-0442	EA	12" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	309.22	138.31
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.39	
26 05 36 00-0443	EA	18" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	369.16	171.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.60	
26 05 36 00-0444	EA	24" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	419.19	199.32
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.31	
26 05 36 00-0445	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	468.89	226.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.04	
26 05 36 00-0446	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	539.97	261.99
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.16	
26 05 36 00-0447		36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0448	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	288.19	113.10
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.39	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0449	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	321.62	131.04
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.24	
26 05 36 00-0450	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	348.73	146.51
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.66	
26 05 36 00-0451	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	420.21	184.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.65	
26 05 36 00-0452	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	474.85	216.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.45	
26 05 36 00-0453	EA	30" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	544.72	249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.72	
26 05 36 00-0454	EA	36" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	625.68	292.60
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.19	
26 05 36 00-0455		12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0456	EA	6" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	412.58	199.32
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.65	
26 05 36 00-0457	EA	9" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	447.23	216.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.68	
26 05 36 00-0458	EA	12" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	468.29	226.19
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.98	
26 05 36 00-0459	EA	18" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	519.50	249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.20	
26 05 36 00-0460	EA	24" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	583.22	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.29	
26 05 36 00-0461	EA	30" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	635.00	293.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.08	
26 05 36 00-0462	EA	36" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	718.80	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.23	
26 05 36 00-0463		24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0464	EA	6" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	486.85	216.44
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.65	
26 05 36 00-0465	EA	9" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	527.52	237.29
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.98	
26 05 36 00-0466	EA	12" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	551.92	249.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.44	
26 05 36 00-0467	EA	18" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	608.44	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.81	
26 05 36 00-0468	EA	24" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	679.71	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.03	
26 05 36 00-0469	EA	30" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	728.41	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.19	
26 05 36 00-0470	EA	36" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	863.46	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.40	
26 05 36 00-0471		36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0472	EA	6" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	583.95	237.29
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.62	
26 05 36 00-0473	EA	9" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	632.43	261.99
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.41	
26 05 36 00-0474	EA	12" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	669.68	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.93	
26 05 36 00-0475	EA	18" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	743.35	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.40	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0476	EA		24" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	845.60	355.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.95	
26 05 36 00-0477	EA		30" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	915.09	383.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.56	
26 05 36 00-0478	EA		36" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,050.67	452.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.36	
26 05 36 00-0479 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0480	EA		6" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	444.23	184.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.06	
26 05 36 00-0481	EA		9" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	457.54	191.64
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.78	
26 05 36 00-0482	EA		12" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	471.42	199.32
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.54	
26 05 36 00-0483	EA		18" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	502.46	216.44
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.21	
26 05 36 00-0484	EA		24" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	521.13	226.19
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.26	
26 05 36 00-0485	EA		30" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	568.73	249.03
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.12	
26 05 36 00-0486	EA		36" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	620.45	276.41
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.01	
26 05 36 00-0487 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0488	EA		6" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	579.49	199.32
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.34	
26 05 36 00-0489	EA		9" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	596.84	207.52
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.39	
26 05 36 00-0490	EA		12" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	615.34	216.44
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.50	
26 05 36 00-0491	EA		18" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	657.20	237.29
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.95	
26 05 36 00-0492	EA		24" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	684.01	249.03
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.65	
26 05 36 00-0493	EA		30" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	736.92	276.41
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.66	
26 05 36 00-0494	EA		36" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	806.99	311.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.76	
26 05 36 00-0495 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)					
26 05 36 00-0496	EA		6" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	823.08	216.44
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.27	
26 05 36 00-0497	EA		9" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	845.34	226.19
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.68	
26 05 36 00-0498	EA		12" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	869.74	237.29
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.20	
26 05 36 00-0499	EA		18" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	917.02	261.99
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.87	
26 05 36 00-0500	EA		24" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	947.06	276.41
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.67	
26 05 36 00-0501	EA		30" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,023.13	311.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.37	
26 05 36 00-0502	EA		36" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,102.57	355.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.65	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 36 00-0503	12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)			
26 05 36 00-0504	EA	6" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	514.70	249.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.72	
26 05 36 00-0505	EA	9" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	541.17	261.99
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.28	
26 05 36 00-0506	EA	12" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	574.82	276.41
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.45	
26 05 36 00-0507	EA	18" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	613.38	293.12
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.91	
26 05 36 00-0508	EA	24" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	692.38	331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.58	
26 05 36 00-0509	EA	30" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	759.14	355.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.30	
26 05 36 00-0510	EA	36" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	825.03	383.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.56	
26 05 36 00-0511	24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)			
26 05 36 00-0512	EA	6" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	654.07	276.41
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.37	
26 05 36 00-0513	EA	9" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	687.83	293.12
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.36	
26 05 36 00-0514	EA	12" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	724.14	311.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.47	
26 05 36 00-0515	EA	18" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	771.63	331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.51	
26 05 36 00-0516	EA	24" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	871.86	383.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.24	
26 05 36 00-0517	EA	30" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	940.29	415.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.44	
26 05 36 00-0518	EA	36" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,042.26	452.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.52	
26 05 36 00-0519	36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)			
26 05 36 00-0520	EA	6" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	788.98	311.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.96	
26 05 36 00-0521	EA	9" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	835.28	331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.87	
26 05 36 00-0522	EA	12" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	886.42	355.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.03	
26 05 36 00-0523	EA	18" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	963.12	383.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.37	
26 05 36 00-0524	EA	24" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,114.31	452.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-73.73	
26 05 36 00-0525	EA	30" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,219.01	497.21
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.46	
26 05 36 00-0526	EA	36" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,343.40	553.87
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.18	
26 05 36 00-0527	12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)			
26 05 36 00-0528	EA	6" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	559.55	249.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.20	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0529	EA	9" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	588.32	262.10
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.99	
26 05 36 00-0530	EA	12" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	626.07	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.57	
26 05 36 00-0531	EA	18" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	669.77	293.22
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.54	
26 05 36 00-0532	EA	24" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	755.06	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.85	
26 05 36 00-0533	EA	30" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	834.52	355.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.83	
26 05 36 00-0534	EA	36" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	908.00	382.87
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.89	
26 05 36 00-0535		24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0536	EA	6" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	741.07	276.41
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.07	
26 05 36 00-0537	EA	9" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	777.53	293.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.33	
26 05 36 00-0538	EA	12" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	816.54	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.71	
26 05 36 00-0539	EA	18" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	869.98	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.34	
26 05 36 00-0540	EA	24" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	976.69	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.72	
26 05 36 00-0541	EA	30" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,052.15	415.03
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.63	
26 05 36 00-0542	EA	36" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,171.95	452.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.49	
26 05 36 00-0543		36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0544	EA	6" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	910.56	311.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.12	
26 05 36 00-0545	EA	9" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	962.26	331.82
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.57	
26 05 36 00-0546	EA	12" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,018.81	355.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.27	
26 05 36 00-0547	EA	18" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,109.02	383.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.96	
26 05 36 00-0548	EA	24" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.42	452.39
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.94	
26 05 36 00-0549	EA	30" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,394.62	497.21
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.02	
26 05 36 00-0550	EA	36" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,532.52	553.87
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.10	
26 05 36 00-0551		12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-0002)		
26 05 36 00-0552		12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0553	EA	6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	208.57	104.07
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-12.19	
26 05 36 00-0554	EA	9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	235.53	118.49
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-13.68	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0555 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting259.67	259.67	131.04
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.05	
26 05 36 00-0556 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....321.30	321.30	160.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.75	
26 05 36 00-0557 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....367.64	367.64	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.40	
26 05 36 00-0558 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....425.16	425.16	207.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.22	
26 05 36 00-0559 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....488.00	488.00	237.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.03	
26 05 36 00-0560 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0561 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....252.98	252.98	108.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.28	
26 05 36 00-0562 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....282.17	282.17	124.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.85	
26 05 36 00-0563 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....308.18	308.18	138.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.29	
26 05 36 00-0564 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....370.07	370.07	171.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.69	
26 05 36 00-0565 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....422.03	422.03	199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.60	
26 05 36 00-0566 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....474.74	474.74	226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.62	
26 05 36 00-0567 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....552.84	552.84	261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.45	
26 05 36 00-0568 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0569 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....268.93	268.93	113.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.47	
26 05 36 00-0570 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....303.03	303.03	130.94
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.40	
26 05 36 00-0571 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....333.04	333.04	146.51
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.09	
26 05 36 00-0572 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....408.96	408.96	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.53	
26 05 36 00-0573 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....472.44	472.44	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.21	
26 05 36 00-0574 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....549.04	549.04	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.15	
26 05 36 00-0575 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....633.88	633.88	292.60
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.01	
26 05 36 00-0576 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0577 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....153.03	153.03	75.43
For 60 Degree Bend, Deduct	-21.60	
For 30 Degree Bend, Deduct	-40.18	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.02	
26 05 36 00-0578 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....179.21	179.21	90.48
For 60 Degree Bend, Deduct	-24.47	
For 30 Degree Bend, Deduct	-45.81	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.38	
26 05 36 00-0579 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....202.52	202.52	103.76
For 60 Degree Bend, Deduct	-27.06	
For 30 Degree Bend, Deduct	-50.86	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.61	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0580	EA		18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	249.80	131.15
			For 60 Degree Bend, Deduct	-32.17	
			For 30 Degree Bend, Deduct	-60.90	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.05	
26 05 36 00-0581	EA		24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	307.90	160.62
			For 60 Degree Bend, Deduct	-40.04	
			For 30 Degree Bend, Deduct	-75.65	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.41	
26 05 36 00-0582	EA		30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	358.71	184.38
			For 60 Degree Bend, Deduct	-47.69	
			For 30 Degree Bend, Deduct	-89.72	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.50	
26 05 36 00-0583	EA		36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	414.37	216.44
			For 60 Degree Bend, Deduct	-53.77	
			For 30 Degree Bend, Deduct	-101.63	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.40	
26 05 36 00-0584 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)					
26 05 36 00-0585	EA		6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	164.25	77.82
			For 60 Degree Bend, Deduct	-24.39	
			For 30 Degree Bend, Deduct	-44.97	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.94	
26 05 36 00-0586	EA		9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	193.21	93.80
			For 60 Degree Bend, Deduct	-27.80	
			For 30 Degree Bend, Deduct	-51.54	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.50	
26 05 36 00-0587	EA		12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	221.83	108.32
			For 60 Degree Bend, Deduct	-31.69	
			For 30 Degree Bend, Deduct	-58.83	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.16	
26 05 36 00-0588	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	273.01	138.31
			For 60 Degree Bend, Deduct	-37.06	
			For 30 Degree Bend, Deduct	-69.46	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.77	
26 05 36 00-0589	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	337.68	171.83
			For 60 Degree Bend, Deduct	-45.58	
			For 30 Degree Bend, Deduct	-85.52	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.45	
26 05 36 00-0590	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	393.55	199.32
			For 60 Degree Bend, Deduct	-53.48	
			For 30 Degree Bend, Deduct	-100.21	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.75	
26 05 36 00-0591	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	465.78	237.29
			For 60 Degree Bend, Deduct	-62.76	
			For 30 Degree Bend, Deduct	-117.78	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.81	
26 05 36 00-0592 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)					
26 05 36 00-0593	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	183.48	80.31
			For 60 Degree Bend, Deduct	-29.78	
			For 30 Degree Bend, Deduct	-54.09	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.66	
26 05 36 00-0594	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	215.02	97.53
			For 60 Degree Bend, Deduct	-33.57	
			For 30 Degree Bend, Deduct	-61.38	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.38	
26 05 36 00-0595	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	242.26	113.20
			For 60 Degree Bend, Deduct	-36.55	
			For 30 Degree Bend, Deduct	-67.21	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.79	
26 05 36 00-0596	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	302.33	146.51
			For 60 Degree Bend, Deduct	-43.59	
			For 30 Degree Bend, Deduct	-80.79	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.02	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0597	EA	24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	368.76 -51.00 -95.25 -21.51	184.38
26 05 36 00-0598	EA	30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	440.06 -62.24 -115.76 -25.97	216.44
26 05 36 00-0599	EA	36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	524.92 -72.78 -135.86 -30.66	261.99
26 05 36 00-0600 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)				
26 05 36 00-0601	EA	6" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	221.51 -13.50	103.76
26 05 36 00-0602	EA	9" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	247.26 -14.85	118.49
26 05 36 00-0603	EA	12" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	269.72 -16.05	131.04
26 05 36 00-0604	EA	18" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	321.30 -18.75	160.62
26 05 36 00-0605	EA	24" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	363.18 -20.95	184.38
26 05 36 00-0606	EA	30" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	406.17 -23.32	207.52
26 05 36 00-0607	EA	36" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	457.37 -26.00	236.88
26 05 36 00-0608 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)				
26 05 36 00-0609	EA	6" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	249.07 -15.89	108.22
26 05 36 00-0610	EA	9" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	277.87 -17.41	124.51
26 05 36 00-0611	EA	12" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	303.72 -18.84	138.31
26 05 36 00-0612	EA	18" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	363.37 -22.02	171.83
26 05 36 00-0613	EA	24" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	413.09 -24.70	199.32
26 05 36 00-0614	EA	30" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	462.46 -27.39	226.19
26 05 36 00-0615	EA	36" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	532.74 -31.44	261.99
26 05 36 00-0616 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)				
26 05 36 00-0617	EA	6" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	281.21 -18.70	113.10
26 05 36 00-0618	EA	9" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	314.39 -20.52	131.04
26 05 36 00-0619	EA	12" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	341.42 -21.93	146.51
26 05 36 00-0620	EA	18" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	412.31 -25.86	184.38
26 05 36 00-0621	EA	24" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	466.86 -28.65	216.44

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0622 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	535.64	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.81	
26 05 36 00-0623 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	616.01	292.60
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.22	
26 05 36 00-0624 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0625 EA 6" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	404.54	199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.85	
26 05 36 00-0626 EA 9" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	438.58	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.82	
26 05 36 00-0627 EA 12" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	459.16	226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.06	
26 05 36 00-0628 EA 18" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	509.05	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.15	
26 05 36 00-0629 EA 24" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	570.97	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.06	
26 05 36 00-0630 EA 30" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	620.35	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.61	
26 05 36 00-0631 EA 36" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	702.23	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.57	
26 05 36 00-0632 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0633 EA 6" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	474.25	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.39	
26 05 36 00-0634 EA 9" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	514.31	237.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.66	
26 05 36 00-0635 EA 12" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	538.23	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.07	
26 05 36 00-0636 EA 18" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	593.67	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.33	
26 05 36 00-0637 EA 24" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	663.62	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.42	
26 05 36 00-0638 EA 30" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	710.87	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.43	
26 05 36 00-0639 EA 36" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	841.00	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.15	
26 05 36 00-0640 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0641 EA 6" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	565.10	237.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.74	
26 05 36 00-0642 EA 9" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	612.86	261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.45	
26 05 36 00-0643 EA 12" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	648.78	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.84	
26 05 36 00-0644 EA 18" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	720.89	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.15	
26 05 36 00-0645 EA 24" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	820.26	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.41	
26 05 36 00-0646 EA 30" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	887.47	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.80	
26 05 36 00-0647 EA 36" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,021.01	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.40	



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		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 36 00-0648	12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)			
26 05 36 00-0649	EA 6" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	430.54		184.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.69		
26 05 36 00-0650	EA 9" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	443.73		191.64
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.40		
26 05 36 00-0651	EA 12" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	457.49		199.32
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.14		
26 05 36 00-0652	EA 18" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	488.29		216.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.79		
26 05 36 00-0653	EA 24" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	506.72		226.19
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.82		
26 05 36 00-0654	EA 30" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	553.36		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.58		
26 05 36 00-0655	EA 36" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	604.48		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.41		
26 05 36 00-0656	24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)			
26 05 36 00-0657	EA 6" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	554.76		199.32
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.87		
26 05 36 00-0658	EA 9" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	571.74		207.52
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.88		
26 05 36 00-0659	EA 12" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	589.88		216.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.95		
26 05 36 00-0660	EA 18" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	631.03		237.29
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.33		
26 05 36 00-0661	EA 24" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	657.11		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.96		
26 05 36 00-0662	EA 30" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	709.30		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.89		
26 05 36 00-0663	EA 36" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	778.17		311.28
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.88		
26 05 36 00-0664	36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)			
26 05 36 00-0665	EA 6" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	776.85		216.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.65		
26 05 36 00-0666	EA 9" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	798.51		226.19
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.00		
26 05 36 00-0667	EA 12" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	822.31		237.29
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.46		
26 05 36 00-0668	EA 18" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	868.99		261.99
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.06		
26 05 36 00-0669	EA 24" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	898.43		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.81		
26 05 36 00-0670	EA 30" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	972.70		311.28
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.33		
26 05 36 00-0671	EA 36" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,051.53		355.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.54		
26 05 36 00-0672	12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)			
26 05 36 00-0673	EA 6" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	504.73		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.72		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0674 EA 9" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	530.72	261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.24	
26 05 36 00-0675 EA 12" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	563.41	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.30	
26 05 36 00-0676 EA 18" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	600.89	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.66	
26 05 36 00-0677 EA 24" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	678.45	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.19	
26 05 36 00-0678 EA 30" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	742.45	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.63	
26 05 36 00-0679 EA 36" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	806.42	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.70	
26 05 36 00-0680 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0681 EA 6" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	634.74	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.44	
26 05 36 00-0682 EA 9" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	667.90	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.37	
26 05 36 00-0683 EA 12" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	703.60	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.42	
26 05 36 00-0684 EA 18" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	749.78	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.32	
26 05 36 00-0685 EA 24" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	848.57	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.91	
26 05 36 00-0686 EA 30" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	915.44	415.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.96	
26 05 36 00-0687 EA 36" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,013.44	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.64	
26 05 36 00-0688 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0689 EA 6" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	761.96	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.26	
26 05 36 00-0690 EA 9" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	807.06	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.05	
26 05 36 00-0691 EA 12" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	857.01	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.09	
26 05 36 00-0692 EA 18" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	930.70	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.12	
26 05 36 00-0693 EA 24" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,078.28	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-70.12	
26 05 36 00-0694 EA 30" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,179.98	497.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.56	
26 05 36 00-0695 EA 36" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,301.37	553.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.98	
26 05 36 00-0696 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0697 EA 6" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	545.09	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.76	
26 05 36 00-0698 EA 9" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	573.17	262.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.48	
26 05 36 00-0699 EA 12" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	609.53	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.92	
26 05 36 00-0700 EA 18" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	651.66	293.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.73	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0701	EA	24" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	734.87	331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.83	
26 05 36 00-0702	EA	30" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	810.32	355.48
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.41	
26 05 36 00-0703	EA	36" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	881.01	382.87
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.20	
26 05 36 00-0704		24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0705	EA	6" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	713.03	276.41
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.27	
26 05 36 00-0706	EA	9" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	748.63	293.12
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.44	
26 05 36 00-0707	EA	12" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	786.76	311.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.74	
26 05 36 00-0708	EA	18" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	838.29	331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.17	
26 05 36 00-0709	EA	24" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	942.92	383.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.35	
26 05 36 00-0710	EA	30" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,016.11	415.03
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.02	
26 05 36 00-0711	EA	36" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,130.16	452.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.31	
26 05 36 00-0712		36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0713	EA	6" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	871.38	311.28
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.20	
26 05 36 00-0714	EA	9" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	921.34	331.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.48	
26 05 36 00-0715	EA	12" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	976.15	355.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.00	
26 05 36 00-0716	EA	18" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,062.01	383.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.26	
26 05 36 00-0717	EA	24" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,224.18	452.39
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.71	
26 05 36 00-0718	EA	30" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,338.04	497.21
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.37	
26 05 36 00-0719	EA	36" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,471.58	553.87
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.00	
26 05 36 00-0720		Dropout Or End Plates And Reducers (26 05 36 00-0002)		
26 05 36 00-0721		Straight Reducers (26 05 36 00-0720)		
26 05 36 00-0722	EA	9"-6" Reducer, Steel Cable Tray.....	182.90	76.58
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.91	
26 05 36 00-0723	EA	12"-9" Reducer, Steel Cable Tray.....	194.64	82.91
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.55	
26 05 36 00-0724	EA	18"-12" Reducer, Steel Cable Tray.....	215.98	95.66
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.62	
26 05 36 00-0725	EA	24"-18" Reducer, Steel Cable Tray.....	242.13	110.71
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.99	
26 05 36 00-0726	EA	30"-24" Reducer, Steel Cable Tray.....	266.36	124.51
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.26	
26 05 36 00-0727	EA	36"-30" Reducer, Steel Cable Tray.....	303.15	142.25
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.46	
26 05 36 00-0728		Reducers (26 05 36 00-0720)		
26 05 36 00-0729	EA	18"-6" Reducer, Steel Cable Tray.....	218.47	95.77
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.87	
26 05 36 00-0730	EA	24"-12" Reducer, Steel Cable Tray.....	244.80	110.82
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.24	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0731 EA 30"-12" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	270.99 -16.73	124.40
26 05 36 00-0732 EA 30"-18" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	273.23 -16.96	124.30
26 05 36 00-0733 EA 36"-12" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	304.35 -18.58	142.25
26 05 36 00-0734 EA 36"-18" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	312.99 -19.13	145.99
26 05 36 00-0735 EA 36"-24" Reducer, Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	323.16 -19.76	150.66
26 05 36 00-0736 Dropout Or End Plate (26 05 36 00-0720)		
26 05 36 00-0737 EA 6" Dropout Or End Plate, Steel Cable Tray.....	58.06	31.13
26 05 36 00-0738 EA 9" Dropout Or End Plate, Steel Cable Tray.....	66.51	35.59
26 05 36 00-0739 EA 12" Dropout Or End Plate, Steel Cable Tray.....	71.74	38.29
26 05 36 00-0740 EA 18" Dropout Or End Plate, Steel Cable Tray.....	84.73	45.24
26 05 36 00-0741 EA 24" Dropout Or End Plate, Steel Cable Tray.....	94.30	49.81
26 05 36 00-0742 EA 30" Dropout Or End Plate, Steel Cable Tray.....	104.61	55.30
26 05 36 00-0743 EA 36" Dropout Or End Plate, Steel Cable Tray.....	117.93	62.25
26 05 36 00-0744 Ladder Bottom Aluminum Cable Tray (26 05 36 00-0001) Note: 4-5/8" Height		
26 05 36 00-0745 Straight Tray Sections (26 05 36 00-0744)		
26 05 36 00-0746 4" Rung Spacing (26 05 36 00-0745)		
26 05 36 00-0747 LF 6" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	26.55	7.26
<i>For Class 12C Instead Of Class 12B, Add</i>	2.77	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.05	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.33	
26 05 36 00-0748 LF 9" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	28.00	7.67
<i>For Class 12C Instead Of Class 12B, Add</i>	2.92	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.16	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.40	
26 05 36 00-0749 LF 12" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	29.43	7.99
<i>For Class 12C Instead Of Class 12B, Add</i>	3.08	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.28	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.47	
26 05 36 00-0750 LF 18" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	32.52	8.72
<i>For Class 12C Instead Of Class 12B, Add</i>	3.42	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.52	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.63	
26 05 36 00-0751 LF 24" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	36.41	9.34
<i>For Class 12C Instead Of Class 12B, Add</i>	3.91	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.87	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.82	
26 05 36 00-0752 LF 30" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	39.57	9.96
<i>For Class 12C Instead Of Class 12B, Add</i>	4.28	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.13	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.98	
26 05 36 00-0753 LF 36" Aluminum Cable Tray, 4" Rung Spacing, Straight Section	42.53	10.58
<i>For Class 12C Instead Of Class 12B, Add</i>	4.61	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.13	
26 05 36 00-0754 6" Rung Spacing (26 05 36 00-0745)		
26 05 36 00-0755 LF 6" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	25.24	7.26
<i>For Class 12C Instead Of Class 12B, Add</i>	2.57	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-1.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.26	
26 05 36 00-0756 LF 9" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	26.61	7.67
<i>For Class 12C Instead Of Class 12B, Add</i>	2.72	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.02	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.33	
26 05 36 00-0757 LF 12" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	27.97	7.99
<i>For Class 12C Instead Of Class 12B, Add</i>	2.86	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.13	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.40	
26 05 36 00-0758 LF 18" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	30.89	8.72
<i>For Class 12C Instead Of Class 12B, Add</i>	3.17	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.36	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.54	
26 05 36 00-0759 LF 24" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	34.50	9.34
<i>For Class 12C Instead Of Class 12B, Add</i>	3.63	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.68	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.73	
26 05 36 00-0760 LF 30" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	37.48	9.96
<i>For Class 12C Instead Of Class 12B, Add</i>	3.97	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.87	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0761	LF		36" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	40.27	10.58
			For Class 12C Instead Of Class 12B, Add	4.27	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.14	
			For 6" Overall Height Instead Of 4-5/8", Add	2.01	
26 05 36 00-0762 9" Rung Spacing (26 05 36 00-0745)					
26 05 36 00-0763	LF		6" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	23.13	6.95
			For Class 12C Instead Of Class 12B, Add	2.31	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.73	
			For 6" Overall Height Instead Of 4-5/8", Add	1.16	
26 05 36 00-0764	LF		9" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	23.71	7.26
			For Class 12C Instead Of Class 12B, Add	2.34	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.76	
			For 6" Overall Height Instead Of 4-5/8", Add	1.19	
26 05 36 00-0765	LF		12" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	25.18	7.67
			For Class 12C Instead Of Class 12B, Add	2.50	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.88	
			For 6" Overall Height Instead Of 4-5/8", Add	1.26	
26 05 36 00-0766	LF		18" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	26.94	8.19
			For Class 12C Instead Of Class 12B, Add	2.68	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.01	
			For 6" Overall Height Instead Of 4-5/8", Add	1.35	
26 05 36 00-0767	LF		24" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	29.47	8.51
			For Class 12C Instead Of Class 12B, Add	3.01	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.24	
			For 6" Overall Height Instead Of 4-5/8", Add	1.47	
26 05 36 00-0768	LF		30" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	32.36	9.13
			For Class 12C Instead Of Class 12B, Add	3.32	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.47	
			For 6" Overall Height Instead Of 4-5/8", Add	1.62	
26 05 36 00-0769	LF		36" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	34.63	9.96
			For Class 12C Instead Of Class 12B, Add	3.53	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.63	
			For 6" Overall Height Instead Of 4-5/8", Add	1.73	
26 05 36 00-0770 12" Rung Spacing (26 05 36 00-0745)					
26 05 36 00-0771	LF		6" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	22.53	6.74
			For Class 12C Instead Of Class 12B, Add	2.26	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.69	
			For 6" Overall Height Instead Of 4-5/8", Add	1.13	
26 05 36 00-0772	LF		9" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	23.00	6.95
			For Class 12C Instead Of Class 12B, Add	2.29	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.72	
			For 6" Overall Height Instead Of 4-5/8", Add	1.15	
26 05 36 00-0773	LF		12" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	24.07	7.36
			For Class 12C Instead Of Class 12B, Add	2.38	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.79	
			For 6" Overall Height Instead Of 4-5/8", Add	1.20	
26 05 36 00-0774	LF		18" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	25.49	7.78
			For Class 12C Instead Of Class 12B, Add	2.52	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.90	
			For 6" Overall Height Instead Of 4-5/8", Add	1.27	
26 05 36 00-0775	LF		24" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	27.07	7.88
			For Class 12C Instead Of Class 12B, Add	2.74	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.05	
			For 6" Overall Height Instead Of 4-5/8", Add	1.35	
26 05 36 00-0776	LF		30" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	29.29	8.72
			For Class 12C Instead Of Class 12B, Add	2.95	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.21	
			For 6" Overall Height Instead Of 4-5/8", Add	1.46	
26 05 36 00-0777	LF		36" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	31.28	9.45
			For Class 12C Instead Of Class 12B, Add	3.12	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-2.34	
			For 6" Overall Height Instead Of 4-5/8", Add	1.56	
26 05 36 00-0778 18" Rung Spacing (26 05 36 00-0745)					
26 05 36 00-0779	LF		6" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	22.16	6.54
			For Class 12C Instead Of Class 12B, Add	2.23	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.67	
			For 6" Overall Height Instead Of 4-5/8", Add	1.11	
26 05 36 00-0780	LF		9" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	22.44	6.85
			For Class 12C Instead Of Class 12B, Add	2.23	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.68	
			For 6" Overall Height Instead Of 4-5/8", Add	1.12	
26 05 36 00-0781	LF		12" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	23.55	7.05
			For Class 12C Instead Of Class 12B, Add	2.35	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.77	
			For 6" Overall Height Instead Of 4-5/8", Add	1.18	
26 05 36 00-0782	LF		18" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	24.79	7.47
			For Class 12C Instead Of Class 12B, Add	2.48	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-1.86	
			For 6" Overall Height Instead Of 4-5/8", Add	1.24	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0783	LF	24" Aluminum Cable Tray, 18" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	25.95 2.63 -1.96 1.30	7.57
26 05 36 00-0784	LF	30" Aluminum Cable Tray, 18" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	27.54 2.76 -2.07 1.38	8.30
26 05 36 00-0785	LF	36" Aluminum Cable Tray, 18" Rung Spacing, Straight Section For Class 12C Instead Of Class 12B, Add For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	29.51 2.92 -2.20 1.48	9.03
26 05 36 00-0786		4" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-0787		90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0788	EA	6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	233.41 -14.67 11.67	104.07
26 05 36 00-0789	EA	9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	259.10 -16.03 12.96	118.49
26 05 36 00-0790	EA	12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	291.28 -18.21 14.56	131.04
26 05 36 00-0791	EA	18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	349.75 -21.59 17.49	160.62
26 05 36 00-0792	EA	24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	409.14 -25.55 20.46	184.38
26 05 36 00-0793	EA	30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	453.75 -28.08 22.69	207.52
26 05 36 00-0794	EA	36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	525.98 -32.83 26.30	237.19
26 05 36 00-0795		90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0796	EA	6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	286.75 -19.66 14.34	108.22
26 05 36 00-0797	EA	9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	318.27 -21.46 15.91	124.40
26 05 36 00-0798	EA	12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	346.80 -23.15 17.34	138.31
26 05 36 00-0799	EA	18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	412.42 -26.93 20.62	171.83
26 05 36 00-0800	EA	24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	470.39 -30.43 23.52	199.32
26 05 36 00-0801	EA	30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	528.21 -33.97 26.41	226.19
26 05 36 00-0802	EA	36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	606.87 -38.85 30.34	261.99
26 05 36 00-0803		90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0786)		
26 05 36 00-0804	EA	6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	305.51 -21.13 15.28	113.10
26 05 36 00-0805	EA	9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	338.19 -22.91 16.91	130.94
26 05 36 00-0806	EA	12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	377.97 -25.58 18.90	146.51
26 05 36 00-0807	EA	18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	457.76 -30.41 22.89	184.38
26 05 36 00-0808	EA	24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	530.94 -35.06 26.55	216.44
26 05 36 00-0809	EA	30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	601.92 -39.44 30.10	249.03



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Common Work Results For Electrical		26 05
Cable Trays For Electrical Systems		26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 36 00-0810	EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	701.82	-45.80 35.09	292.60
26 05 36 00-0811	45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0786)			
26 05 36 00-0812	EA 6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	165.17 -25.60 -46.86 -10.23 8.26		75.43
26 05 36 00-0813	EA 9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	191.75 -28.61 -52.71 -11.64 9.59		90.48
26 05 36 00-0814	EA 12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	215.47 -31.33 -57.98 -12.90 10.77		103.76
26 05 36 00-0815	EA 18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	268.67 -38.40 -71.28 -15.94 13.43		131.15
26 05 36 00-0816	EA 24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	330.00 -47.33 -87.81 -19.62 16.50		160.62
26 05 36 00-0817	EA 30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	378.75 -54.30 -100.74 -22.51 18.94		184.38
26 05 36 00-0818	EA 36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	435.22 -60.65 -113.10 -25.48 21.76		216.44
26 05 36 00-0819	45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0786)			
26 05 36 00-0820	EA 6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	182.81 -30.51 -55.18 -11.80 9.14		77.82
26 05 36 00-0821	EA 9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	215.62 -35.19 -63.87 -13.74 10.78		93.80
26 05 36 00-0822	EA 12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	241.29 -38.11 -69.53 -15.10 12.06		108.32
26 05 36 00-0823	EA 18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	295.90 -44.62 -82.05 -18.06 14.80		138.31
26 05 36 00-0824	EA 24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	362.28 -53.70 -99.05 -21.91 18.11		171.83
26 05 36 00-0825	EA 30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	423.29 -63.30 -116.56 -25.72 21.16		199.32
26 05 36 00-0826	EA 36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	491.15 -71.13 -131.73 -29.34 24.56		237.29
26 05 36 00-0827	45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0786)			

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0828	EA	6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	205.19	80.31
		For 60 Degree Bend, Deduct	-36.94	
		For 30 Degree Bend, Deduct	-66.03	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.83	
		For 6" Overall Height Instead Of 4-5/8", Add	10.26	
26 05 36 00-0829	EA	9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	235.46	97.53
		For 60 Degree Bend, Deduct	-40.32	
		For 30 Degree Bend, Deduct	-72.62	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.42	
		For 6" Overall Height Instead Of 4-5/8", Add	11.77	
26 05 36 00-0830	EA	12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	263.11	113.20
		For 60 Degree Bend, Deduct	-43.43	
		For 30 Degree Bend, Deduct	-78.68	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.88	
		For 6" Overall Height Instead Of 4-5/8", Add	13.16	
26 05 36 00-0831	EA	18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	326.31	146.51
		For 60 Degree Bend, Deduct	-51.50	
		For 30 Degree Bend, Deduct	-93.98	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.42	
		For 6" Overall Height Instead Of 4-5/8", Add	16.32	
26 05 36 00-0832	EA	24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	407.62	184.38
		For 60 Degree Bend, Deduct	-63.83	
		For 30 Degree Bend, Deduct	-116.62	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.40	
		For 6" Overall Height Instead Of 4-5/8", Add	20.38	
26 05 36 00-0833	EA	30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	467.13	216.44
		For 60 Degree Bend, Deduct	-71.18	
		For 30 Degree Bend, Deduct	-130.65	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.67	
		For 6" Overall Height Instead Of 4-5/8", Add	23.36	
26 05 36 00-0834	EA	36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	553.69	261.99
		For 60 Degree Bend, Deduct	-82.28	
		For 30 Degree Bend, Deduct	-151.68	
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.53	
		For 6" Overall Height Instead Of 4-5/8", Add	27.68	
26 05 36 00-0835 90 Degree, 12" Radius Vertical Risers (26 05 36 00-0786)				
26 05 36 00-0836	EA	6" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	247.54	103.76
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.11	
		For 6" Overall Height Instead Of 4-5/8", Add	12.38	
26 05 36 00-0837	EA	9" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	276.24	118.49
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.75	
		For 6" Overall Height Instead Of 4-5/8", Add	13.81	
26 05 36 00-0838	EA	12" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	298.39	131.04
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.92	
		For 6" Overall Height Instead Of 4-5/8", Add	14.92	
26 05 36 00-0839	EA	18" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	350.45	160.62
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.66	
		For 6" Overall Height Instead Of 4-5/8", Add	17.52	
26 05 36 00-0840	EA	24" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	394.16	184.38
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.05	
		For 6" Overall Height Instead Of 4-5/8", Add	19.71	
26 05 36 00-0841	EA	30" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	436.76	207.52
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.38	
		For 6" Overall Height Instead Of 4-5/8", Add	21.84	
26 05 36 00-0842	EA	36" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	488.44	236.88
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.10	
		For 6" Overall Height Instead Of 4-5/8", Add	24.42	
26 05 36 00-0843 90 Degree, 24" Radius Vertical Risers (26 05 36 00-0786)				
26 05 36 00-0844	EA	6" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	261.11	108.22
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.09	
		For 6" Overall Height Instead Of 4-5/8", Add	13.06	
26 05 36 00-0845	EA	9" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	291.63	124.51
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.79	
		For 6" Overall Height Instead Of 4-5/8", Add	14.58	
26 05 36 00-0846	EA	12" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	316.71	138.31
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.14	
		For 6" Overall Height Instead Of 4-5/8", Add	15.84	
26 05 36 00-0847	EA	18" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	377.20	171.83
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.40	
		For 6" Overall Height Instead Of 4-5/8", Add	18.86	
26 05 36 00-0848	EA	24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray	428.45	199.32
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.24	
		For 6" Overall Height Instead Of 4-5/8", Add	21.42	
26 05 36 00-0849	EA	30" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	478.77	226.19
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.03	
		For 6" Overall Height Instead Of 4-5/8", Add	23.94	
26 05 36 00-0850	EA	36" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	545.23	261.99
		For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.69	
		For 6" Overall Height Instead Of 4-5/8", Add	27.26	



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		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 36 00-0851 90 Degree, 36" Radius Vertical Risers (26 05 36 00-0786)				
26 05 36 00-0852	EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	313.33		113.10
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.91		
	For 6" Overall Height Instead Of 4-5/8", Add	15.67		
26 05 36 00-0853	EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	345.87		131.04
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.67		
	For 6" Overall Height Instead Of 4-5/8", Add	17.29		
26 05 36 00-0854	EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	379.92		146.51
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.78		
	For 6" Overall Height Instead Of 4-5/8", Add	19.00		
26 05 36 00-0855	EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	448.43		184.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.48		
	For 6" Overall Height Instead Of 4-5/8", Add	22.42		
26 05 36 00-0856	EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	507.28		216.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.69		
	For 6" Overall Height Instead Of 4-5/8", Add	25.36		
26 05 36 00-0857	EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	572.40		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.49		
	For 6" Overall Height Instead Of 4-5/8", Add	28.62		
26 05 36 00-0858	EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	651.74		292.60
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.79		
	For 6" Overall Height Instead Of 4-5/8", Add	32.59		
26 05 36 00-0859 12" Radius Horizontal Tees (26 05 36 00-0786)				
26 05 36 00-0860	EA 6" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	418.19		199.32
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.21		
	For 6" Overall Height Instead Of 4-5/8", Add	20.91		
26 05 36 00-0861	EA 9" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	452.48		216.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.21		
	For 6" Overall Height Instead Of 4-5/8", Add	22.62		
26 05 36 00-0862	EA 12" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	470.15		226.19
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.16		
	For 6" Overall Height Instead Of 4-5/8", Add	23.51		
26 05 36 00-0863	EA 18" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	526.49		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.90		
	For 6" Overall Height Instead Of 4-5/8", Add	26.32		
26 05 36 00-0864	EA 24" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	583.49		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.31		
	For 6" Overall Height Instead Of 4-5/8", Add	29.17		
26 05 36 00-0865	EA 30" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	631.00		293.12
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.68		
	For 6" Overall Height Instead Of 4-5/8", Add	31.55		
26 05 36 00-0866	EA 36" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	723.80		331.82
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.73		
	For 6" Overall Height Instead Of 4-5/8", Add	36.19		
26 05 36 00-0867 24" Radius Horizontal Tees (26 05 36 00-0786)				
26 05 36 00-0868	EA 6" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	507.50		216.44
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.71		
	For 6" Overall Height Instead Of 4-5/8", Add	25.38		
26 05 36 00-0869	EA 9" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	550.63		237.29
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.29		
	For 6" Overall Height Instead Of 4-5/8", Add	27.53		
26 05 36 00-0870	EA 12" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	574.46		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.69		
	For 6" Overall Height Instead Of 4-5/8", Add	28.72		
26 05 36 00-0871	EA 18" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	634.28		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.39		
	For 6" Overall Height Instead Of 4-5/8", Add	31.71		
26 05 36 00-0872	EA 24" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	707.86		311.28
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.85		
	For 6" Overall Height Instead Of 4-5/8", Add	35.39		
26 05 36 00-0873	EA 30" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	760.49		331.82
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.39		
	For 6" Overall Height Instead Of 4-5/8", Add	38.02		
26 05 36 00-0874	EA 36" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	956.35		383.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.69		
	For 6" Overall Height Instead Of 4-5/8", Add	47.82		
26 05 36 00-0875 36" Radius Horizontal Tees (26 05 36 00-0786)				
26 05 36 00-0876	EA 6" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	602.83		237.29
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.51		
	For 6" Overall Height Instead Of 4-5/8", Add	30.14		
26 05 36 00-0877	EA 9" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	649.74		261.99
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.14		
	For 6" Overall Height Instead Of 4-5/8", Add	32.49		
26 05 36 00-0878	EA 12" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	693.53		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.32		
	For 6" Overall Height Instead Of 4-5/8", Add	34.68		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0879 EA 18" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	764.29	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.49	
For 6" Overall Height Instead Of 4-5/8", Add	38.21	
26 05 36 00-0880 EA 24" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	863.12	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.70	
For 6" Overall Height Instead Of 4-5/8", Add	43.16	
26 05 36 00-0881 EA 30" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	981.75	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.23	
For 6" Overall Height Instead Of 4-5/8", Add	49.09	
26 05 36 00-0882 EA 36" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,135.00	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.80	
For 6" Overall Height Instead Of 4-5/8", Add	56.75	
26 05 36 00-0883 12" Radius Vertical Tees (26 05 36 00-0786)		
26 05 36 00-0884 EA 6" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	500.63	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.70	
For 6" Overall Height Instead Of 4-5/8", Add	25.03	
26 05 36 00-0885 EA 9" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	518.38	191.64
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.87	
For 6" Overall Height Instead Of 4-5/8", Add	25.92	
26 05 36 00-0886 EA 12" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	532.47	199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.64	
For 6" Overall Height Instead Of 4-5/8", Add	26.62	
26 05 36 00-0887 EA 18" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	565.35	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.50	
For 6" Overall Height Instead Of 4-5/8", Add	28.27	
26 05 36 00-0888 EA 24" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	598.54	226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.00	
For 6" Overall Height Instead Of 4-5/8", Add	29.93	
26 05 36 00-0889 EA 30" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	640.77	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.33	
For 6" Overall Height Instead Of 4-5/8", Add	32.04	
26 05 36 00-0890 EA 36" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	693.53	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.32	
For 6" Overall Height Instead Of 4-5/8", Add	34.68	
26 05 36 00-0891 24" Radius Vertical Tees (26 05 36 00-0786)		
26 05 36 00-0892 EA 6" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	659.45	199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.34	
For 6" Overall Height Instead Of 4-5/8", Add	32.97	
26 05 36 00-0893 EA 9" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	677.42	207.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.45	
For 6" Overall Height Instead Of 4-5/8", Add	33.87	
26 05 36 00-0894 EA 12" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	696.56	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.62	
For 6" Overall Height Instead Of 4-5/8", Add	34.83	
26 05 36 00-0895 EA 18" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	741.09	237.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.34	
For 6" Overall Height Instead Of 4-5/8", Add	37.05	
26 05 36 00-0896 EA 24" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	769.16	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.16	
For 6" Overall Height Instead Of 4-5/8", Add	38.46	
26 05 36 00-0897 EA 30" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	823.33	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.30	
For 6" Overall Height Instead Of 4-5/8", Add	41.17	
26 05 36 00-0898 EA 36" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	913.84	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.44	
For 6" Overall Height Instead Of 4-5/8", Add	45.69	
26 05 36 00-0899 36" Radius Vertical Tee (26 05 36 00-0786)		
26 05 36 00-0900 EA 6" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	983.45	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.31	
For 6" Overall Height Instead Of 4-5/8", Add	49.17	
26 05 36 00-0901 EA 9" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,007.80	226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.93	
For 6" Overall Height Instead Of 4-5/8", Add	50.39	
26 05 36 00-0902 EA 12" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,034.28	237.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.66	
For 6" Overall Height Instead Of 4-5/8", Add	51.71	
26 05 36 00-0903 EA 18" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,083.65	261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.53	
For 6" Overall Height Instead Of 4-5/8", Add	54.18	
26 05 36 00-0904 EA 24" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,115.78	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.54	
For 6" Overall Height Instead Of 4-5/8", Add	55.79	
26 05 36 00-0905 EA 30" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,198.09	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.87	
For 6" Overall Height Instead Of 4-5/8", Add	59.90	
26 05 36 00-0906 EA 36" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,279.60	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.35	
For 6" Overall Height Instead Of 4-5/8", Add	63.98	



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Common Work Results For Electrical		26 05
Cable Trays For Electrical Systems		26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 36 00-0907 12" Radius Horizontal Crosses (26 05 36 00-0786)				
26 05 36 00-0908	EA 6" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	534.95		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.74		
	For 6" Overall Height Instead Of 4-5/8", Add	26.75		
26 05 36 00-0909	EA 9" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	569.32		261.99
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.10		
	For 6" Overall Height Instead Of 4-5/8", Add	28.47		
26 05 36 00-0910	EA 12" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	594.77		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.44		
	For 6" Overall Height Instead Of 4-5/8", Add	29.74		
26 05 36 00-0911	EA 18" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	650.75		293.12
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.65		
	For 6" Overall Height Instead Of 4-5/8", Add	32.54		
26 05 36 00-0912	EA 24" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	720.98		331.82
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.44		
	For 6" Overall Height Instead Of 4-5/8", Add	36.05		
26 05 36 00-0913	EA 30" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	789.75		355.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.36		
	For 6" Overall Height Instead Of 4-5/8", Add	39.49		
26 05 36 00-0914	EA 36" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	885.81		383.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.64		
	For 6" Overall Height Instead Of 4-5/8", Add	44.29		
26 05 36 00-0915 24" Radius Horizontal Crosses (26 05 36 00-0786)				
26 05 36 00-0916	EA 6" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	690.71		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.03		
	For 6" Overall Height Instead Of 4-5/8", Add	34.54		
26 05 36 00-0917	EA 9" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	725.53		293.12
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.13		
	For 6" Overall Height Instead Of 4-5/8", Add	36.28		
26 05 36 00-0918	EA 12" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	762.88		311.28
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.35		
	For 6" Overall Height Instead Of 4-5/8", Add	38.14		
26 05 36 00-0919	EA 18" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	809.87		331.82
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.33		
	For 6" Overall Height Instead Of 4-5/8", Add	40.49		
26 05 36 00-0920	EA 24" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	918.26		383.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.88		
	For 6" Overall Height Instead Of 4-5/8", Add	45.91		
26 05 36 00-0921	EA 30" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	887.38		415.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.15		
	For 6" Overall Height Instead Of 4-5/8", Add	44.37		
26 05 36 00-0922	EA 36" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	974.64		452.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.76		
	For 6" Overall Height Instead Of 4-5/8", Add	48.73		
26 05 36 00-0923 36" Radius Horizontal Crosses (26 05 36 00-0786)				
26 05 36 00-0924	EA 6" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	789.69		311.28
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.03		
	For 6" Overall Height Instead Of 4-5/8", Add	39.48		
26 05 36 00-0925	EA 9" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	737.67		331.82
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.11		
	For 6" Overall Height Instead Of 4-5/8", Add	36.88		
26 05 36 00-0926	EA 12" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	787.88		355.38
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.18		
	For 6" Overall Height Instead Of 4-5/8", Add	39.39		
26 05 36 00-0927	EA 18" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	957.77		383.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.83		
	For 6" Overall Height Instead Of 4-5/8", Add	47.89		
26 05 36 00-0928	EA 24" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,149.11		452.39
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.21		
	For 6" Overall Height Instead Of 4-5/8", Add	57.46		
26 05 36 00-0929	EA 30" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,266.12		497.21
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-85.17		
	For 6" Overall Height Instead Of 4-5/8", Add	63.31		
26 05 36 00-0930	EA 36" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,409.87		553.87
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-94.83		
	For 6" Overall Height Instead Of 4-5/8", Add	70.49		
26 05 36 00-0931 12" Radius Vertical Cross (26 05 36 00-0786)				
26 05 36 00-0932	EA 6" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	534.95		249.03
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.74		
	For 6" Overall Height Instead Of 4-5/8", Add	26.75		
26 05 36 00-0933	EA 9" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	569.46		262.10
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.10		
	For 6" Overall Height Instead Of 4-5/8", Add	28.47		
26 05 36 00-0934	EA 12" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	594.69		276.41
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.44		
	For 6" Overall Height Instead Of 4-5/8", Add	29.73		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0935 EA 18" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	650.94	293.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.66	
For 6" Overall Height Instead Of 4-5/8", Add	32.55	
26 05 36 00-0936 EA 24" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	720.98	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.44	
For 6" Overall Height Instead Of 4-5/8", Add	36.05	
26 05 36 00-0937 EA 30" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	790.02	355.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.38	
For 6" Overall Height Instead Of 4-5/8", Add	39.50	
26 05 36 00-0938 EA 36" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	885.02	382.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.60	
For 6" Overall Height Instead Of 4-5/8", Add	44.25	
26 05 36 00-0939 24" Radius Vertical Crosses (26 05 36 00-0786)		
26 05 36 00-0940 EA 6" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	690.71	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.03	
For 6" Overall Height Instead Of 4-5/8", Add	34.54	
26 05 36 00-0941 EA 9" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	725.53	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.13	
For 6" Overall Height Instead Of 4-5/8", Add	36.28	
26 05 36 00-0942 EA 12" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	762.88	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.35	
For 6" Overall Height Instead Of 4-5/8", Add	38.14	
26 05 36 00-0943 EA 18" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	809.87	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.33	
For 6" Overall Height Instead Of 4-5/8", Add	40.49	
26 05 36 00-0944 EA 24" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	918.26	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.88	
For 6" Overall Height Instead Of 4-5/8", Add	45.91	
26 05 36 00-0945 EA 30" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	990.83	415.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.50	
For 6" Overall Height Instead Of 4-5/8", Add	49.54	
26 05 36 00-0946 EA 36" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,091.27	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.42	
For 6" Overall Height Instead Of 4-5/8", Add	54.56	
26 05 36 00-0947 36" Radius Vertical Crosses (26 05 36 00-0786)		
26 05 36 00-0948 EA 6" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	911.58	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.22	
For 6" Overall Height Instead Of 4-5/8", Add	45.58	
26 05 36 00-0949 EA 9" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	962.24	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.57	
For 6" Overall Height Instead Of 4-5/8", Add	48.11	
26 05 36 00-0950 EA 12" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,025.93	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.98	
For 6" Overall Height Instead Of 4-5/8", Add	51.30	
26 05 36 00-0951 EA 18" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,101.25	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.18	
For 6" Overall Height Instead Of 4-5/8", Add	55.06	
26 05 36 00-0952 EA 24" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,326.88	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-94.98	
For 6" Overall Height Instead Of 4-5/8", Add	66.34	
26 05 36 00-0953 EA 30" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,462.93	497.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-104.86	
For 6" Overall Height Instead Of 4-5/8", Add	73.15	
26 05 36 00-0954 EA 36" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,628.90	553.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.73	
For 6" Overall Height Instead Of 4-5/8", Add	81.45	
26 05 36 00-0955 6" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-0956 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0957 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	224.83	104.07
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.81	
For 6" Overall Height Instead Of 4-5/8", Add	11.24	
26 05 36 00-0958 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	250.30	118.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.15	
For 6" Overall Height Instead Of 4-5/8", Add	12.52	
26 05 36 00-0959 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	280.86	131.04
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.17	
For 6" Overall Height Instead Of 4-5/8", Add	14.04	
26 05 36 00-0960 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	338.03	160.62
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.42	
For 6" Overall Height Instead Of 4-5/8", Add	16.90	
26 05 36 00-0961 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	394.60	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.09	
For 6" Overall Height Instead Of 4-5/8", Add	19.73	
26 05 36 00-0962 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	438.34	207.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.54	
For 6" Overall Height Instead Of 4-5/8", Add	21.92	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 36 00-0963	EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	507.31 -30.97 25.37		237.19
26 05 36 00-0964	90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)			
26 05 36 00-0965	EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	271.55 -18.14 13.58		108.22
26 05 36 00-0966	EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	302.42 -19.87 15.12		124.40
26 05 36 00-0967	EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	330.20 -21.49 16.51		138.31
26 05 36 00-0968	EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	394.40 -25.12 19.72		171.83
26 05 36 00-0969	EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	450.64 -28.46 22.53		199.32
26 05 36 00-0970	EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	506.61 -31.81 25.33		226.19
26 05 36 00-0971	EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	582.56 -36.42 29.13		261.99
26 05 36 00-0972	90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)			
26 05 36 00-0973	EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	288.80 -19.45 14.44		113.10
26 05 36 00-0974	EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	321.04 -21.20 16.05		130.94
26 05 36 00-0975	EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	358.87 -23.67 17.94		146.51
26 05 36 00-0976	EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	436.27 -28.26 21.81		184.38
26 05 36 00-0977	EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	506.63 -32.62 25.33		216.44
26 05 36 00-0978	EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	575.22 -36.77 28.76		249.03
26 05 36 00-0979	EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	671.22 -42.74 33.56		292.60
26 05 36 00-0980	45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)			
26 05 36 00-0981	EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	159.53 -23.74 -43.76 -9.67 7.98		75.43
26 05 36 00-0982	EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	185.89 -26.68 -49.48 -11.05 9.29		90.48
26 05 36 00-0983	EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	209.40 -29.33 -54.64 -12.29 10.47		103.76
26 05 36 00-0984	EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	261.51 -36.04 -67.35 -15.22 13.08		131.15
26 05 36 00-0985	EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	321.10 -44.39 -82.91 -18.73 16.06		160.62
26 05 36 00-0986	EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	368.55 -50.93 -95.13 -21.49 18.43		184.38

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0987	EA		36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	424.58	216.44
			For 60 Degree Bend, Deduct	-57.13	
			For 30 Degree Bend, Deduct	-107.25	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.42	
			For 6" Overall Height Instead Of 4-5/8", Add	21.23	
26 05 36 00-0988			45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0989	EA		6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	175.21	77.82
			For 60 Degree Bend, Deduct	-28.00	
			For 30 Degree Bend, Deduct	-51.00	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.04	
			For 6" Overall Height Instead Of 4-5/8", Add	8.76	
26 05 36 00-0990	EA		9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	207.15	93.80
			For 60 Degree Bend, Deduct	-32.40	
			For 30 Degree Bend, Deduct	-59.21	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.90	
			For 6" Overall Height Instead Of 4-5/8", Add	10.36	
26 05 36 00-0991	EA		12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	232.60	108.32
			For 60 Degree Bend, Deduct	-35.24	
			For 30 Degree Bend, Deduct	-64.75	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.23	
			For 6" Overall Height Instead Of 4-5/8", Add	11.63	
26 05 36 00-0992	EA		18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	286.57	138.31
			For 60 Degree Bend, Deduct	-41.54	
			For 30 Degree Bend, Deduct	-76.91	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.13	
			For 6" Overall Height Instead Of 4-5/8", Add	14.33	
26 05 36 00-0993	EA		24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	351.43	171.83
			For 60 Degree Bend, Deduct	-50.12	
			For 30 Degree Bend, Deduct	-93.08	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.83	
			For 6" Overall Height Instead Of 4-5/8", Add	17.57	
26 05 36 00-0994	EA		30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	410.27	199.32
			For 60 Degree Bend, Deduct	-59.00	
			For 30 Degree Bend, Deduct	-109.40	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.42	
			For 6" Overall Height Instead Of 4-5/8", Add	20.51	
26 05 36 00-0995	EA		36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	477.48	237.29
			For 60 Degree Bend, Deduct	-66.62	
			For 30 Degree Bend, Deduct	-124.21	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.98	
			For 6" Overall Height Instead Of 4-5/8", Add	23.87	
26 05 36 00-0996			45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0997	EA		6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	194.99	80.31
			For 60 Degree Bend, Deduct	-33.58	
			For 30 Degree Bend, Deduct	-60.42	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.81	
			For 6" Overall Height Instead Of 4-5/8", Add	9.75	
26 05 36 00-0998	EA		9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	225.04	97.53
			For 60 Degree Bend, Deduct	-36.88	
			For 30 Degree Bend, Deduct	-66.89	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.38	
			For 6" Overall Height Instead Of 4-5/8", Add	11.25	
26 05 36 00-0999	EA		12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	252.47	113.20
			For 60 Degree Bend, Deduct	-39.92	
			For 30 Degree Bend, Deduct	-72.83	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.81	
			For 6" Overall Height Instead Of 4-5/8", Add	12.62	
26 05 36 00-1000	EA		18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	314.59	146.51
			For 60 Degree Bend, Deduct	-47.63	
			For 30 Degree Bend, Deduct	-87.53	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.25	
			For 6" Overall Height Instead Of 4-5/8", Add	15.73	
26 05 36 00-1001	EA		24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	393.29	184.38
			For 60 Degree Bend, Deduct	-59.10	
			For 30 Degree Bend, Deduct	-108.74	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.96	
			For 6" Overall Height Instead Of 4-5/8", Add	19.66	
26 05 36 00-1002	EA		30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	451.93	216.44
			For 60 Degree Bend, Deduct	-66.16	
			For 30 Degree Bend, Deduct	-122.29	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.15	
			For 6" Overall Height Instead Of 4-5/8", Add	22.60	
26 05 36 00-1003	EA		36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	536.98	261.99
			For 60 Degree Bend, Deduct	-76.76	
			For 30 Degree Bend, Deduct	-142.49	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.86	
			For 6" Overall Height Instead Of 4-5/8", Add	26.85	
26 05 36 00-1004			90 Degree, 12" Radius Vertical Risers (26 05 36 00-0955)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1005 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	241.57 -15.51 12.08	103.76
26 05 36 00-1006 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	269.95 -17.12 13.50	118.49
26 05 36 00-1007 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	291.99 -18.28 14.60	131.04
26 05 36 00-1008 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	343.83 -21.00 17.19	160.62
26 05 36 00-1009 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	387.22 -23.36 19.36	184.38
26 05 36 00-1010 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	429.49 -25.66 21.47	207.52
26 05 36 00-1011 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	480.95 -28.35 24.05	236.88
26 05 36 00-1012 90 Degree, 24" Radius Vertical Risers (26 05 36 00-0955)		
26 05 36 00-1013 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	254.65 -16.45 12.73	108.22
26 05 36 00-1014 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	284.90 -18.11 14.25	124.51
26 05 36 00-1015 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	309.82 -19.45 15.49	138.31
26 05 36 00-1016 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	369.93 -22.68 18.50	171.83
26 05 36 00-1017 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	420.74 -25.47 21.04	199.32
26 05 36 00-1018 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	470.64 -28.21 23.53	226.19
26 05 36 00-1019 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	536.55 -31.82 26.83	261.99
26 05 36 00-1020 90 Degree, 36" Radius Vertical Risers (26 05 36 00-0955)		
26 05 36 00-1021 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	303.34 -20.91 15.17	113.10
26 05 36 00-1022 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	335.67 -22.65 16.78	131.04
26 05 36 00-1023 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	369.07 -24.69 18.45	146.51
26 05 36 00-1024 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	437.14 -28.35 21.86	184.38
26 05 36 00-1025 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	495.56 -31.52 24.78	216.44
26 05 36 00-1026 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	559.81 -35.23 27.99	249.03
26 05 36 00-1027 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	638.61 -39.48 31.93	292.60
26 05 36 00-1028 12" Radius Horizontal Tees (26 05 36 00-0955)		
26 05 36 00-1029 EA 6" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	411.57 -24.55 20.58	199.32
26 05 36 00-1030 EA 9" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	445.42 -26.50 22.27	216.44
26 05 36 00-1031 EA 12" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	462.98 -27.45 23.15	226.19
26 05 36 00-1032 EA 18" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	517.91 -31.04 25.90	249.03

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1033 EA 24" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	574.04	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.37	
For 6" Overall Height Instead Of 4-5/8", Add	28.70	
26 05 36 00-1034 EA 30" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	620.04	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.58	
For 6" Overall Height Instead Of 4-5/8", Add	31.00	
26 05 36 00-1035 EA 36" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	710.67	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.41	
For 6" Overall Height Instead Of 4-5/8", Add	35.53	
26 05 36 00-1036 24" Radius Horizontal Tees (26 05 36 00-0955)		
26 05 36 00-1037 EA 6" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	496.21	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.58	
For 6" Overall Height Instead Of 4-5/8", Add	24.81	
26 05 36 00-1038 EA 9" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	538.69	237.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.10	
For 6" Overall Height Instead Of 4-5/8", Add	26.93	
26 05 36 00-1039 EA 12" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	562.19	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.47	
For 6" Overall Height Instead Of 4-5/8", Add	28.11	
26 05 36 00-1040 EA 18" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	620.93	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.06	
For 6" Overall Height Instead Of 4-5/8", Add	31.05	
26 05 36 00-1041 EA 24" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	693.31	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.39	
For 6" Overall Height Instead Of 4-5/8", Add	34.67	
26 05 36 00-1042 EA 30" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	744.53	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.80	
For 6" Overall Height Instead Of 4-5/8", Add	37.23	
26 05 36 00-1043 EA 36" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	931.94	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.25	
For 6" Overall Height Instead Of 4-5/8", Add	46.60	
26 05 36 00-1044 36" Radius Horizontal Tees (26 05 36 00-0955)		
26 05 36 00-1045 EA 6" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	586.87	237.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.92	
For 6" Overall Height Instead Of 4-5/8", Add	29.34	
26 05 36 00-1046 EA 9" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	633.35	261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.50	
For 6" Overall Height Instead Of 4-5/8", Add	31.67	
26 05 36 00-1047 EA 12" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	675.63	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.53	
For 6" Overall Height Instead Of 4-5/8", Add	33.78	
26 05 36 00-1048 EA 18" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	745.41	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.60	
For 6" Overall Height Instead Of 4-5/8", Add	37.27	
26 05 36 00-1049 EA 24" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	842.28	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.62	
For 6" Overall Height Instead Of 4-5/8", Add	42.11	
26 05 36 00-1050 EA 30" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	955.38	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.59	
For 6" Overall Height Instead Of 4-5/8", Add	47.77	
26 05 36 00-1051 EA 36" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,105.70	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.87	
For 6" Overall Height Instead Of 4-5/8", Add	55.29	
26 05 36 00-1052 12" Radius Vertical Tees (26 05 36 00-0955)		
26 05 36 00-1053 EA 6" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	485.76	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.21	
For 6" Overall Height Instead Of 4-5/8", Add	24.29	
26 05 36 00-1054 EA 9" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	503.08	191.64
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.34	
For 6" Overall Height Instead Of 4-5/8", Add	25.15	
26 05 36 00-1055 EA 12" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	517.06	199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.10	
For 6" Overall Height Instead Of 4-5/8", Add	25.85	
26 05 36 00-1056 EA 18" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	549.61	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.92	
For 6" Overall Height Instead Of 4-5/8", Add	27.48	
26 05 36 00-1057 EA 24" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	581.50	226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.30	
For 6" Overall Height Instead Of 4-5/8", Add	29.08	
26 05 36 00-1058 EA 30" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	623.40	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.59	
For 6" Overall Height Instead Of 4-5/8", Add	31.17	
26 05 36 00-1059 EA 36" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	675.63	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.53	
For 6" Overall Height Instead Of 4-5/8", Add	33.78	
26 05 36 00-1060 24" Radius Vertical Tees (26 05 36 00-0955)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1061	EA	6" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	634.27 -46.82 31.71	199.32
26 05 36 00-1062	EA	9" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	651.92 -47.90 32.60	207.52
26 05 36 00-1063	EA	12" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	670.73 -49.03 33.54	216.44
26 05 36 00-1064	EA	18" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	714.50 -51.68 35.73	237.29
26 05 36 00-1065	EA	24" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	741.92 -53.44 37.10	249.03
26 05 36 00-1066	EA	30" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	795.44 -56.51 39.77	276.41
26 05 36 00-1067	EA	36" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	883.45 -62.41 44.17	311.28
26 05 36 00-1068 36" Radius Vertical Tees (26 05 36 00-0955)				
26 05 36 00-1069	EA	6" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	935.56 -75.52 46.78	216.44
26 05 36 00-1070	EA	9" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	959.28 -77.08 47.96	226.19
26 05 36 00-1071	EA	12" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	985.14 -78.74 49.26	237.29
26 05 36 00-1072	EA	18" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,033.89 -81.55 51.69	261.99
26 05 36 00-1073	EA	24" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,065.39 -83.50 53.27	276.41
26 05 36 00-1074	EA	30" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,145.84 -88.64 57.29	311.28
26 05 36 00-1075	EA	36" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,226.73 -93.06 61.34	355.38
26 05 36 00-1076 12" Radius Horizontal Crosses (26 05 36 00-0955)				
26 05 36 00-1077	EA	6" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	525.73 -31.82 26.29	249.03
26 05 36 00-1078	EA	9" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	559.12 -34.08 27.96	261.99
26 05 36 00-1079	EA	12" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	584.46 -35.41 29.22	276.41
26 05 36 00-1080	EA	18" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	638.27 -39.40 31.91	293.12
26 05 36 00-1081	EA	24" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	708.07 -43.15 35.40	331.82
26 05 36 00-1082	EA	30" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	774.56 -47.84 38.73	355.38
26 05 36 00-1083	EA	36" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	866.82 -54.74 43.34	383.39
26 05 36 00-1084 24" Radius Horizontal Crosses (26 05 36 00-0955)				
26 05 36 00-1085	EA	6" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	673.02 -44.27 33.65	276.41
26 05 36 00-1086	EA	9" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	707.29 -46.30 35.36	293.12
26 05 36 00-1087	EA	12" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	744.10 -48.47 37.21	311.28
26 05 36 00-1088	EA	18" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	790.12 -51.36 39.51	331.82

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1089 EA 24" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	896.77	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.73	
For 6" Overall Height Instead Of 4-5/8", Add	44.84	
26 05 36 00-1090 EA 30" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	967.83	415.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.20	
For 6" Overall Height Instead Of 4-5/8", Add	48.39	
26 05 36 00-1091 EA 36" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,065.33	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.83	
For 6" Overall Height Instead Of 4-5/8", Add	53.27	
26 05 36 00-1092 36" Radius Horizontal Crosses (26 05 36 00-0955)		
26 05 36 00-1093 EA 6" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	768.85	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.95	
For 6" Overall Height Instead Of 4-5/8", Add	38.44	
26 05 36 00-1094 EA 9" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	813.56	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.70	
For 6" Overall Height Instead Of 4-5/8", Add	40.68	
26 05 36 00-1095 EA 12" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	868.33	355.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.22	
For 6" Overall Height Instead Of 4-5/8", Add	43.42	
26 05 36 00-1096 EA 18" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	933.24	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.38	
For 6" Overall Height Instead Of 4-5/8", Add	46.66	
26 05 36 00-1097 EA 24" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,118.72	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.17	
For 6" Overall Height Instead Of 4-5/8", Add	55.94	
26 05 36 00-1098 EA 30" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,232.47	497.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.81	
For 6" Overall Height Instead Of 4-5/8", Add	61.62	
26 05 36 00-1099 EA 36" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,372.43	553.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.09	
For 6" Overall Height Instead Of 4-5/8", Add	68.62	
26 05 36 00-1100 12" Radius Vertical Crosses (26 05 36 00-0955)		
26 05 36 00-1101 EA 6" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	525.73	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.82	
For 6" Overall Height Instead Of 4-5/8", Add	26.29	
26 05 36 00-1102 EA 9" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	559.26	262.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.08	
For 6" Overall Height Instead Of 4-5/8", Add	27.96	
26 05 36 00-1103 EA 12" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	584.38	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.41	
For 6" Overall Height Instead Of 4-5/8", Add	29.22	
26 05 36 00-1104 EA 18" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	638.46	293.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.41	
For 6" Overall Height Instead Of 4-5/8", Add	31.92	
26 05 36 00-1105 EA 24" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	708.07	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.15	
For 6" Overall Height Instead Of 4-5/8", Add	35.40	
26 05 36 00-1106 EA 30" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	774.83	355.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.86	
For 6" Overall Height Instead Of 4-5/8", Add	38.74	
26 05 36 00-1107 EA 36" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	866.03	382.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.70	
For 6" Overall Height Instead Of 4-5/8", Add	43.30	
26 05 36 00-1108 24" Radius Vertical Crosses (26 05 36 00-0955)		
26 05 36 00-1109 EA 6" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	673.02	276.41
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.27	
For 6" Overall Height Instead Of 4-5/8", Add	33.65	
26 05 36 00-1110 EA 9" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	707.29	293.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.30	
For 6" Overall Height Instead Of 4-5/8", Add	35.36	
26 05 36 00-1111 EA 12" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	744.10	311.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.47	
For 6" Overall Height Instead Of 4-5/8", Add	37.21	
26 05 36 00-1112 EA 18" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	790.12	331.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.36	
For 6" Overall Height Instead Of 4-5/8", Add	39.51	
26 05 36 00-1113 EA 24" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	896.77	383.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.73	
For 6" Overall Height Instead Of 4-5/8", Add	44.84	
26 05 36 00-1114 EA 30" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	967.83	415.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.20	
For 6" Overall Height Instead Of 4-5/8", Add	48.39	
26 05 36 00-1115 EA 36" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,065.33	452.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.83	
For 6" Overall Height Instead Of 4-5/8", Add	53.27	
26 05 36 00-1116 36" Radius Vertical Crosses (26 05 36 00-0955)		



Electrical		26
Common Work Results For Electrical		26 05
Cable Trays For Electrical Systems		26 05 36

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1117 EA 6" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	881.37 -62.20 44.07	311.28
26 05 36 00-1118 EA 9" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	930.77 -65.42 46.54	331.82
26 05 36 00-1119 EA 12" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	992.57 -69.65 49.63	355.38
26 05 36 00-1120 EA 18" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,065.69 -74.62 53.28	383.39
26 05 36 00-1121 EA 24" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,282.82 -90.58 64.14	452.39
26 05 36 00-1122 EA 30" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,414.15 -99.98 70.71	497.21
26 05 36 00-1123 EA 36" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,574.61 -111.31 78.73	553.87
26 05 36 00-1124 9" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-1125 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1126 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	216.26 -12.96 10.81	104.07
26 05 36 00-1127 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	241.51 -14.27 12.08	118.49
26 05 36 00-1128 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	270.44 -16.13 13.52	131.04
26 05 36 00-1129 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	326.31 -19.25 16.32	160.62
26 05 36 00-1130 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	380.05 -22.64 19.00	184.38
26 05 36 00-1131 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	422.92 -25.00 21.15	207.52
26 05 36 00-1132 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	488.64 -29.10 24.43	237.19
26 05 36 00-1133 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1134 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	256.36 -16.62 12.82	108.22
26 05 36 00-1135 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	286.58 -18.29 14.33	124.40
26 05 36 00-1136 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	313.59 -19.83 15.68	138.31
26 05 36 00-1137 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	376.39 -23.32 18.82	171.83
26 05 36 00-1138 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	430.89 -26.48 21.54	199.32
26 05 36 00-1139 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	485.02 -29.65 24.25	226.19
26 05 36 00-1140 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	558.25 -33.99 27.91	261.99
26 05 36 00-1141 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1142 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	272.09 -17.78 13.60	113.10
26 05 36 00-1143 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	303.90 -19.48 15.20	130.94
26 05 36 00-1144 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	339.76 -21.76 16.99	146.51

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1145	EA		18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	414.78	184.38
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.11	
			For 6" Overall Height Instead Of 4-5/8", Add	20.74	
26 05 36 00-1146	EA		24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	482.32	216.44
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.19	
			For 6" Overall Height Instead Of 4-5/8", Add	24.12	
26 05 36 00-1147	EA		30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	548.52	249.03
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.10	
			For 6" Overall Height Instead Of 4-5/8", Add	27.43	
26 05 36 00-1148	EA		36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	640.61	292.60
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.68	
			For 6" Overall Height Instead Of 4-5/8", Add	32.03	
26 05 36 00-1149 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)					
26 05 36 00-1150	EA		6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	153.89	75.43
			For 60 Degree Bend, Deduct	-21.88	
			For 30 Degree Bend, Deduct	-40.66	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.11	
			For 6" Overall Height Instead Of 4-5/8", Add	7.69	
26 05 36 00-1151	EA		9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	180.03	90.48
			For 60 Degree Bend, Deduct	-24.74	
			For 30 Degree Bend, Deduct	-46.26	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.47	
			For 6" Overall Height Instead Of 4-5/8", Add	9.00	
26 05 36 00-1152	EA		12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	203.32	103.76
			For 60 Degree Bend, Deduct	-27.32	
			For 30 Degree Bend, Deduct	-51.30	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.69	
			For 6" Overall Height Instead Of 4-5/8", Add	10.17	
26 05 36 00-1153	EA		18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	254.34	131.15
			For 60 Degree Bend, Deduct	-33.67	
			For 30 Degree Bend, Deduct	-63.40	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.51	
			For 6" Overall Height Instead Of 4-5/8", Add	12.72	
26 05 36 00-1154	EA		24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	312.20	160.62
			For 60 Degree Bend, Deduct	-41.46	
			For 30 Degree Bend, Deduct	-78.02	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.84	
			For 6" Overall Height Instead Of 4-5/8", Add	15.61	
26 05 36 00-1155	EA		30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	358.35	184.38
			For 60 Degree Bend, Deduct	-47.57	
			For 30 Degree Bend, Deduct	-89.52	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.47	
			For 6" Overall Height Instead Of 4-5/8", Add	17.92	
26 05 36 00-1156	EA		36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	413.95	216.44
			For 60 Degree Bend, Deduct	-53.63	
			For 30 Degree Bend, Deduct	-101.40	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.36	
			For 6" Overall Height Instead Of 4-5/8", Add	20.70	
26 05 36 00-1157 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1124)					
26 05 36 00-1158	EA		6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	167.61	77.82
			For 60 Degree Bend, Deduct	-25.50	
			For 30 Degree Bend, Deduct	-46.82	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.28	
			For 6" Overall Height Instead Of 4-5/8", Add	8.38	
26 05 36 00-1159	EA		9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	198.69	93.80
			For 60 Degree Bend, Deduct	-29.60	
			For 30 Degree Bend, Deduct	-54.55	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.05	
			For 6" Overall Height Instead Of 4-5/8", Add	9.93	
26 05 36 00-1160	EA		12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	223.92	108.32
			For 60 Degree Bend, Deduct	-32.38	
			For 30 Degree Bend, Deduct	-59.98	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.37	
			For 6" Overall Height Instead Of 4-5/8", Add	11.20	
26 05 36 00-1161	EA		18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	277.24	138.31
			For 60 Degree Bend, Deduct	-38.46	
			For 30 Degree Bend, Deduct	-71.78	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.20	
			For 6" Overall Height Instead Of 4-5/8", Add	13.86	
26 05 36 00-1162	EA		24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	340.57	171.83
			For 60 Degree Bend, Deduct	-46.54	
			For 30 Degree Bend, Deduct	-87.11	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.74	
			For 6" Overall Height Instead Of 4-5/8", Add	17.03	
26 05 36 00-1163	EA		30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	397.25	199.32
			For 60 Degree Bend, Deduct	-54.70	
			For 30 Degree Bend, Deduct	-102.24	
			For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.12	
			For 6" Overall Height Instead Of 4-5/8", Add	19.86	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 36 00-1164	EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	463.80 -62.11 -116.69 -26.61 23.19		237.29
26 05 36 00-1165	45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)			
26 05 36 00-1166	EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	184.79 -30.21 -54.81 -11.79 9.24		80.31
26 05 36 00-1167	EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	214.62 -33.44 -61.16 -13.34 10.73		97.53
26 05 36 00-1168	EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	241.84 -36.42 -66.98 -14.75 12.09		113.20
26 05 36 00-1169	EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	302.87 -43.77 -81.09 -18.07 15.14		146.51
26 05 36 00-1170	EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	378.97 -54.37 -100.86 -22.53 18.95		184.38
26 05 36 00-1171	EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	436.74 -61.15 -113.94 -25.64 21.84		216.44
26 05 36 00-1172	EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 60 Degree Bend, Deduct For 30 Degree Bend, Deduct For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	520.27 -71.25 -133.30 -30.19 26.01		261.99
26 05 36 00-1173	90 Degree, 12" Radius Vertical Risers (26 05 36 00-1124)			
26 05 36 00-1174	EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	232.62 -14.62 11.63		103.76
26 05 36 00-1175	EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	260.51 -16.17 13.03		118.49
26 05 36 00-1176	EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	282.38 -17.32 14.12		131.04
26 05 36 00-1177	EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	333.90 -20.01 16.70		160.62
26 05 36 00-1178	EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	376.80 -22.31 18.84		184.38
26 05 36 00-1179	EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	418.58 -24.56 20.93		207.52
26 05 36 00-1180	EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	469.71 -27.23 23.49		236.88
26 05 36 00-1181	90 Degree, 24" Radius Vertical Risers (26 05 36 00-1124)			
26 05 36 00-1182	EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	244.96 -15.48 12.25		108.22
26 05 36 00-1183	EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	274.81 -17.11 13.74		124.51
26 05 36 00-1184	EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	299.49 -18.42 14.97		138.31
26 05 36 00-1185	EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	359.02 -21.59 17.95		171.83
26 05 36 00-1186	EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	409.18 -24.31 20.46		199.32

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1187	EA	30" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	458.43 -26.99 22.92	226.19
26 05 36 00-1188	EA	36" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	523.52 -30.52 26.18	261.99
26 05 36 00-1189 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1124)				
26 05 36 00-1190	EA	6" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	288.37 -19.41 14.42	113.10
26 05 36 00-1191	EA	9" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	320.37 -21.12 16.02	131.04
26 05 36 00-1192	EA	12" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	352.79 -23.07 17.64	146.51
26 05 36 00-1193	EA	18" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	420.21 -26.65 21.01	184.38
26 05 36 00-1194	EA	24" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	477.98 -29.76 23.90	216.44
26 05 36 00-1195	EA	30" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	540.92 -33.34 27.05	249.03
26 05 36 00-1196	EA	36" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	618.91 -37.51 30.95	292.60
26 05 36 00-1197 12" Radius Horizontal Tees (26 05 36 00-1124)				
26 05 36 00-1198	EA	6" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	398.33 -23.23 19.92	199.32
26 05 36 00-1199	EA	9" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	431.31 -25.09 21.57	216.44
26 05 36 00-1200	EA	12" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	448.66 -26.01 22.43	226.19
26 05 36 00-1201	EA	18" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	500.77 -29.33 25.04	249.03
26 05 36 00-1202	EA	24" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	555.16 -32.48 27.76	276.41
26 05 36 00-1203	EA	30" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	598.11 -35.39 29.91	293.12
26 05 36 00-1204	EA	36" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	684.41 -40.79 34.22	331.82
26 05 36 00-1205 24" Radius Horizontal Tees (26 05 36 00-1124)				
26 05 36 00-1206	EA	6" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	473.64 -29.33 23.68	216.44
26 05 36 00-1207	EA	9" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	514.81 -31.71 25.74	237.29
26 05 36 00-1208	EA	12" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	537.67 -33.02 26.88	249.03
26 05 36 00-1209	EA	18" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	594.23 -36.39 29.71	276.41
26 05 36 00-1210	EA	24" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	664.23 -40.48 33.21	311.28
26 05 36 00-1211	EA	30" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	712.63 -43.61 35.63	331.82
26 05 36 00-1212	EA	36" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	883.10 -56.36 44.16	383.39
26 05 36 00-1213 36" Radius Horizontal Tees (26 05 36 00-1124)				
26 05 36 00-1214	EA	6" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	554.97 -35.73 27.75	237.29



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Cable Trays For Electrical Systems		26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1215	EA	9" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	600.58 -38.22 30.03	261.99
26 05 36 00-1216	EA	12" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	639.81 -40.94 31.99	276.41
26 05 36 00-1217	EA	18" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	707.64 -44.82 35.38	311.28
26 05 36 00-1218	EA	24" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	800.60 -50.45 40.03	355.38
26 05 36 00-1219	EA	30" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	902.63 -58.32 45.13	383.39
26 05 36 00-1220	EA	36" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,047.10 -67.01 52.36	452.39
26 05 36 00-1221 12" Radius Vertical Tees (26 05 36 00-1124)				
26 05 36 00-1222	EA	6" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	456.02 -30.24 22.80	184.38
26 05 36 00-1223	EA	9" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	472.47 -31.27 23.62	191.64
26 05 36 00-1224	EA	12" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	486.24 -32.02 24.31	199.32
26 05 36 00-1225	EA	18" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	518.14 -33.78 25.91	216.44
26 05 36 00-1226	EA	24" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	547.42 -35.89 27.37	226.19
26 05 36 00-1227	EA	30" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	588.67 -38.12 29.43	249.03
26 05 36 00-1228	EA	36" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	639.81 -40.94 31.99	276.41
26 05 36 00-1229 24" Radius Vertical Tees (26 05 36 00-1124)				
26 05 36 00-1230	EA	6" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	583.91 -41.78 29.20	199.32
26 05 36 00-1231	EA	9" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	600.91 -42.80 30.05	207.52
26 05 36 00-1232	EA	12" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	619.07 -43.87 30.95	216.44
26 05 36 00-1233	EA	18" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	661.32 -46.36 33.07	237.29
26 05 36 00-1234	EA	24" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	687.44 -47.99 34.37	249.03
26 05 36 00-1235	EA	30" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	739.66 -50.93 36.98	276.41
26 05 36 00-1236	EA	36" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	822.68 -56.33 41.13	311.28
26 05 36 00-1237 36" Radius Vertical Tees (26 05 36 00-1124)				
26 05 36 00-1238	EA	6" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	839.76 -65.94 41.99	216.44
26 05 36 00-1239	EA	9" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	862.24 -67.37 43.11	226.19
26 05 36 00-1240	EA	12" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	886.86 -68.91 44.34	237.29
26 05 36 00-1241	EA	18" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	934.36 -71.60 46.72	261.99
26 05 36 00-1242	EA	24" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	964.61 -73.42 48.23	276.41

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1243	EA	30" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,041.33 -78.19 52.07	311.28
26 05 36 00-1244	EA	36" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,120.98 -82.49 56.05	355.38
26 05 36 00-1245 12" Radius Horizontal Crosses (26 05 36 00-1124)				
26 05 36 00-1246	EA	6" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	507.28 -29.98 25.36	249.03
26 05 36 00-1247	EA	9" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	538.72 -32.04 26.94	261.99
26 05 36 00-1248	EA	12" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	563.84 -33.35 28.19	276.41
26 05 36 00-1249	EA	18" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	613.31 -36.91 30.67	293.12
26 05 36 00-1250	EA	24" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	682.24 -40.57 34.11	331.82
26 05 36 00-1251	EA	30" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	744.17 -44.81 37.21	355.38
26 05 36 00-1252	EA	36" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	828.83 -50.94 41.44	383.39
26 05 36 00-1253 24" Radius Horizontal Crosses (26 05 36 00-1124)				
26 05 36 00-1254	EA	6" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	637.64 -40.73 31.88	276.41
26 05 36 00-1255	EA	9" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	670.83 -42.66 33.54	293.12
26 05 36 00-1256	EA	12" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	706.55 -44.72 35.33	311.28
26 05 36 00-1257	EA	18" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	750.61 -47.41 37.53	331.82
26 05 36 00-1258	EA	24" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	853.80 -53.43 42.69	383.39
26 05 36 00-1259	EA	30" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	921.81 -57.59 46.09	415.03
26 05 36 00-1260	EA	36" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,013.45 -63.64 50.67	452.39
26 05 36 00-1261 36" Radius Horizontal Crosses (26 05 36 00-1124)				
26 05 36 00-1262	EA	6" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	727.17 -46.78 36.36	311.28
26 05 36 00-1263	EA	9" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	770.15 -49.36 38.51	331.82
26 05 36 00-1264	EA	12" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	822.31 -52.62 41.12	355.38
26 05 36 00-1265	EA	18" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	884.18 -56.47 44.21	383.39
26 05 36 00-1266	EA	24" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,057.95 -68.09 52.90	452.39
26 05 36 00-1267	EA	30" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,165.19 -75.08 58.26	497.21
26 05 36 00-1268	EA	36" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,297.54 -83.60 64.88	553.87
26 05 36 00-1269 12" Radius Vertical Crosses (26 05 36 00-1124)				
26 05 36 00-1270	EA	6" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	507.28 -29.98 25.36	249.03



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Cable Trays For Electrical Systems		26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1271	EA	9" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	538.72 -32.04 26.94	261.99
26 05 36 00-1272	EA	12" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	563.84 -33.35 28.19	276.41
26 05 36 00-1273	EA	18" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	613.31 -36.91 30.67	293.12
26 05 36 00-1274	EA	24" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	682.24 -40.57 34.11	331.82
26 05 36 00-1275	EA	30" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	744.17 -44.81 37.21	355.38
26 05 36 00-1276	EA	36" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	827.26 -50.86 41.36	382.35
26 05 36 00-1277 24" Radius Vertical Crosses (26 05 36 00-1124)				
26 05 36 00-1278	EA	6" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	637.64 -40.73 31.88	276.41
26 05 36 00-1279	EA	9" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	670.83 -42.66 33.54	293.12
26 05 36 00-1280	EA	12" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	706.55 -44.72 35.33	311.28
26 05 36 00-1281	EA	18" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	750.61 -47.41 37.53	331.82
26 05 36 00-1282	EA	24" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	853.80 -53.43 42.69	383.39
26 05 36 00-1283	EA	30" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	921.81 -57.59 46.09	415.03
26 05 36 00-1284	EA	36" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,013.45 -63.64 50.67	452.39
26 05 36 00-1285 36" Radius Vertical Crosses (26 05 36 00-1124)				
26 05 36 00-1286	EA	6" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	820.94 -56.15 41.05	311.28
26 05 36 00-1287	EA	9" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	867.82 -59.13 43.39	331.82
26 05 36 00-1288	EA	12" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	925.85 -62.97 46.29	355.38
26 05 36 00-1289	EA	18" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	994.56 -67.51 49.73	383.39
26 05 36 00-1290	EA	24" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,194.69 -81.77 59.73	452.39
26 05 36 00-1291	EA	30" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,316.58 -90.22 65.83	497.21
26 05 36 00-1292	EA	36" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,466.03 -100.45 73.30	553.87
26 05 36 00-1293 12" Rung Tray Fittings (26 05 36 00-0744)				
26 05 36 00-1294 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)				
26 05 36 00-1295	EA	6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	213.26 -12.66 10.66	104.07
26 05 36 00-1296	EA	9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	238.44 -13.97 11.92	118.49
26 05 36 00-1297	EA	12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	266.80 -15.76 13.34	131.04
26 05 36 00-1298	EA	18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	322.20 -18.84 16.11	160.62

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1299 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	374.96	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.13	
For 6" Overall Height Instead Of 4-5/8", Add	18.75	
26 05 36 00-1300 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	417.53	207.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.46	
For 6" Overall Height Instead Of 4-5/8", Add	20.88	
26 05 36 00-1301 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	482.11	237.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.45	
For 6" Overall Height Instead Of 4-5/8", Add	24.11	
26 05 36 00-1302 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1303 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	251.04	108.22
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.08	
For 6" Overall Height Instead Of 4-5/8", Add	12.55	
26 05 36 00-1304 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	281.03	124.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.74	
For 6" Overall Height Instead Of 4-5/8", Add	14.05	
26 05 36 00-1305 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	307.78	138.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.25	
For 6" Overall Height Instead Of 4-5/8", Add	15.39	
26 05 36 00-1306 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	370.08	171.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.69	
For 6" Overall Height Instead Of 4-5/8", Add	18.50	
26 05 36 00-1307 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	423.98	199.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.79	
For 6" Overall Height Instead Of 4-5/8", Add	21.20	
26 05 36 00-1308 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	477.46	226.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.89	
For 6" Overall Height Instead Of 4-5/8", Add	23.87	
26 05 36 00-1309 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	549.74	261.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.14	
For 6" Overall Height Instead Of 4-5/8", Add	27.49	
26 05 36 00-1310 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1311 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	266.24	113.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.20	
For 6" Overall Height Instead Of 4-5/8", Add	13.31	
26 05 36 00-1312 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	297.90	130.94
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.88	
For 6" Overall Height Instead Of 4-5/8", Add	14.90	
26 05 36 00-1313 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	333.08	146.51
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.10	
For 6" Overall Height Instead Of 4-5/8", Add	16.65	
26 05 36 00-1314 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	407.26	184.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.36	
For 6" Overall Height Instead Of 4-5/8", Add	20.36	
26 05 36 00-1315 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	473.81	216.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.34	
For 6" Overall Height Instead Of 4-5/8", Add	23.69	
26 05 36 00-1316 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	539.18	249.03
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.17	
For 6" Overall Height Instead Of 4-5/8", Add	26.96	
26 05 36 00-1317 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	629.90	292.60
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.61	
For 6" Overall Height Instead Of 4-5/8", Add	31.50	
26 05 36 00-1318 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1319 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	151.91	75.43
For 60 Degree Bend, Deduct	-21.23	
For 30 Degree Bend, Deduct	-39.57	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-8.91	
For 6" Overall Height Instead Of 4-5/8", Add	7.60	
26 05 36 00-1320 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	177.98	90.48
For 60 Degree Bend, Deduct	-24.07	
For 30 Degree Bend, Deduct	-45.13	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.26	
For 6" Overall Height Instead Of 4-5/8", Add	8.90	
26 05 36 00-1321 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	201.19	103.76
For 60 Degree Bend, Deduct	-26.62	
For 30 Degree Bend, Deduct	-50.13	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.47	
For 6" Overall Height Instead Of 4-5/8", Add	10.06	
26 05 36 00-1322 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	251.84	131.15
For 60 Degree Bend, Deduct	-32.85	
For 30 Degree Bend, Deduct	-62.03	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.26	
For 6" Overall Height Instead Of 4-5/8", Add	12.59	
26 05 36 00-1323 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	309.08	160.62
For 60 Degree Bend, Deduct	-40.43	
For 30 Degree Bend, Deduct	-76.30	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.52	
For 6" Overall Height Instead Of 4-5/8", Add	15.45	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1324 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	354.78	184.38
For 60 Degree Bend, Deduct	-46.39	
For 30 Degree Bend, Deduct	-87.56	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.11	
For 6" Overall Height Instead Of 4-5/8", Add	17.74	
26 05 36 00-1325 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	410.23	216.44
For 60 Degree Bend, Deduct	-52.40	
For 30 Degree Bend, Deduct	-99.36	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.98	
For 6" Overall Height Instead Of 4-5/8", Add	20.51	
26 05 36 00-1326 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1327 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	164.96	77.82
For 60 Degree Bend, Deduct	-24.62	
For 30 Degree Bend, Deduct	-45.36	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.01	
For 6" Overall Height Instead Of 4-5/8", Add	8.25	
26 05 36 00-1328 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	195.72	93.80
For 60 Degree Bend, Deduct	-28.62	
For 30 Degree Bend, Deduct	-52.92	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.75	
For 6" Overall Height Instead Of 4-5/8", Add	9.79	
26 05 36 00-1329 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	220.88	108.32
For 60 Degree Bend, Deduct	-31.37	
For 30 Degree Bend, Deduct	-58.31	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.06	
For 6" Overall Height Instead Of 4-5/8", Add	11.04	
26 05 36 00-1330 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	273.97	138.31
For 60 Degree Bend, Deduct	-37.38	
For 30 Degree Bend, Deduct	-69.98	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.87	
For 6" Overall Height Instead Of 4-5/8", Add	13.70	
26 05 36 00-1331 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	336.78	171.83
For 60 Degree Bend, Deduct	-45.29	
For 30 Degree Bend, Deduct	-85.02	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.36	
For 6" Overall Height Instead Of 4-5/8", Add	16.84	
26 05 36 00-1332 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	392.69	199.32
For 60 Degree Bend, Deduct	-53.20	
For 30 Degree Bend, Deduct	-99.73	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.66	
For 6" Overall Height Instead Of 4-5/8", Add	19.63	
26 05 36 00-1333 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	459.02	237.29
For 60 Degree Bend, Deduct	-60.53	
For 30 Degree Bend, Deduct	-114.06	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.13	
For 6" Overall Height Instead Of 4-5/8", Add	22.95	
26 05 36 00-1334 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1335 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	181.22	80.31
For 60 Degree Bend, Deduct	-29.03	
For 30 Degree Bend, Deduct	-52.85	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.43	
For 6" Overall Height Instead Of 4-5/8", Add	9.06	
26 05 36 00-1336 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	210.98	97.53
For 60 Degree Bend, Deduct	-32.24	
For 30 Degree Bend, Deduct	-59.15	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.97	
For 6" Overall Height Instead Of 4-5/8", Add	10.55	
26 05 36 00-1337 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	238.12	113.20
For 60 Degree Bend, Deduct	-35.19	
For 30 Degree Bend, Deduct	-64.94	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.38	
For 6" Overall Height Instead Of 4-5/8", Add	11.91	
26 05 36 00-1338 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	298.76	146.51
For 60 Degree Bend, Deduct	-42.41	
For 30 Degree Bend, Deduct	-78.83	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.66	
For 6" Overall Height Instead Of 4-5/8", Add	14.94	
26 05 36 00-1339 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	373.95	184.38
For 60 Degree Bend, Deduct	-52.72	
For 30 Degree Bend, Deduct	-98.10	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.03	
For 6" Overall Height Instead Of 4-5/8", Add	18.70	
26 05 36 00-1340 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	431.42	216.44
For 60 Degree Bend, Deduct	-59.39	
For 30 Degree Bend, Deduct	-111.01	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.10	
For 6" Overall Height Instead Of 4-5/8", Add	21.57	
26 05 36 00-1341 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	514.42	261.99
For 60 Degree Bend, Deduct	-69.32	
For 30 Degree Bend, Deduct	-130.09	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.61	
For 6" Overall Height Instead Of 4-5/8", Add	25.72	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-1342	90 Degree, 12" Radius Vertical Risers (26 05 36 00-1293)				
26 05 36 00-1343	EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	226.65 -14.02 11.33		103.76	
26 05 36 00-1344	EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	254.21 -15.54 12.71		118.49	
26 05 36 00-1345	EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	275.98 -16.68 13.80		131.04	
26 05 36 00-1346	EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	327.28 -19.34 16.36		160.62	
26 05 36 00-1347	EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	369.85 -21.62 18.49		184.38	
26 05 36 00-1348	EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	411.31 -23.84 20.57		207.52	
26 05 36 00-1349	EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	462.23 -26.48 23.11		236.88	
26 05 36 00-1350	90 Degree, 24" Radius Vertical Risers (26 05 36 00-1293)				
26 05 36 00-1351	EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	238.51 -14.83 11.93		108.22	
26 05 36 00-1352	EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	268.08 -16.43 13.40		124.51	
26 05 36 00-1353	EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	292.59 -17.73 14.63		138.31	
26 05 36 00-1354	EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	351.75 -20.86 17.59		171.83	
26 05 36 00-1355	EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	401.48 -23.54 20.07		199.32	
26 05 36 00-1356	EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	450.29 -26.18 22.51		226.19	
26 05 36 00-1357	EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	514.84 -29.65 25.74		261.99	
26 05 36 00-1358	90 Degree, 36" Radius Vertical Risers (26 05 36 00-1293)				
26 05 36 00-1359	EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	278.38 -18.41 13.92		113.10	
26 05 36 00-1360	EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	310.16 -20.10 15.51		131.04	
26 05 36 00-1361	EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	341.94 -21.98 17.10		146.51	
26 05 36 00-1362	EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	408.92 -25.53 20.45		184.38	
26 05 36 00-1363	EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	466.26 -28.59 23.31		216.44	
26 05 36 00-1364	EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	528.33 -32.08 26.42		249.03	
26 05 36 00-1365	EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	605.78 -36.20 30.29		292.60	
26 05 36 00-1366	12" Radius Horizontal Tees (26 05 36 00-1293)				
26 05 36 00-1367	EA 6" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	391.71 -22.56 19.59		199.32	
26 05 36 00-1368	EA 9" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	424.26 -24.39 21.21		216.44	
26 05 36 00-1369	EA 12" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	441.50 -25.30 22.08		226.19	



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Common Work Results For Electrical		26 05
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1370 EA 18" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	492.19 -28.47 24.61	249.03
26 05 36 00-1371 EA 24" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	545.72 -31.54 27.29	276.41
26 05 36 00-1372 EA 30" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	587.15 -34.29 29.36	293.12
26 05 36 00-1373 EA 36" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	671.28 -39.47 33.56	331.82
26 05 36 00-1374 24" Radius Horizontal Tees (26 05 36 00-1293)		
26 05 36 00-1375 EA 6" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	462.35 -28.20 23.12	216.44
26 05 36 00-1376 EA 9" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	502.87 -30.52 25.14	237.29
26 05 36 00-1377 EA 12" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	525.40 -31.79 26.27	249.03
26 05 36 00-1378 EA 18" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	580.88 -35.05 29.04	276.41
26 05 36 00-1379 EA 24" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	649.68 -39.03 32.48	311.28
26 05 36 00-1380 EA 30" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	696.67 -42.01 34.83	331.82
26 05 36 00-1381 EA 36" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	858.68 -53.92 42.93	383.39
26 05 36 00-1382 36" Radius Horizontal Tees (26 05 36 00-1293)		
26 05 36 00-1383 EA 6" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	539.01 -34.13 26.95	237.29
26 05 36 00-1384 EA 9" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	584.19 -36.58 29.21	261.99
26 05 36 00-1385 EA 12" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	621.90 -39.15 31.10	276.41
26 05 36 00-1386 EA 18" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	688.75 -42.94 34.44	311.28
26 05 36 00-1387 EA 24" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	779.77 -48.37 38.99	355.38
26 05 36 00-1388 EA 30" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	876.26 -55.68 43.81	383.39
26 05 36 00-1389 EA 36" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,017.79 -64.08 50.89	452.39
26 05 36 00-1390 12" Radius Vertical Tees (26 05 36 00-1293)		
26 05 36 00-1391 EA 6" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	441.16 -28.75 22.06	184.38
26 05 36 00-1392 EA 9" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	457.17 -29.74 22.86	191.64
26 05 36 00-1393 EA 12" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	470.83 -30.48 23.54	199.32
26 05 36 00-1394 EA 18" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	502.40 -32.20 25.12	216.44
26 05 36 00-1395 EA 24" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	530.38 -34.19 26.52	226.19
26 05 36 00-1396 EA 30" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	571.31 -36.38 28.57	249.03
26 05 36 00-1397 EA 36" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	621.90 -39.15 31.10	276.41

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-1398	24" Radius Vertical Tees (26 05 36 00-1293)				
26 05 36 00-1399	EA 6" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....558.74		199.32		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.27			
	For 6" Overall Height Instead Of 4-5/8", Add	27.94			
26 05 36 00-1400	EA 9" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....575.41		207.52		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.25			
	For 6" Overall Height Instead Of 4-5/8", Add	28.77			
26 05 36 00-1401	EA 12" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....593.24		216.44		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.29			
	For 6" Overall Height Instead Of 4-5/8", Add	29.66			
26 05 36 00-1402	EA 18" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....634.73		237.29		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.70			
	For 6" Overall Height Instead Of 4-5/8", Add	31.74			
26 05 36 00-1403	EA 24" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....660.19		249.03		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.27			
	For 6" Overall Height Instead Of 4-5/8", Add	33.01			
26 05 36 00-1404	EA 30" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....711.77		276.41		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.14			
	For 6" Overall Height Instead Of 4-5/8", Add	35.59			
26 05 36 00-1405	EA 36" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....792.29		311.28		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.29			
	For 6" Overall Height Instead Of 4-5/8", Add	39.61			
26 05 36 00-1406	36" Radius Vertical Tees (26 05 36 00-1293)				
26 05 36 00-1407	EA 6" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....791.86		216.44		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.15			
	For 6" Overall Height Instead Of 4-5/8", Add	39.59			
26 05 36 00-1408	EA 9" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....813.72		226.19		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.52			
	For 6" Overall Height Instead Of 4-5/8", Add	40.69			
26 05 36 00-1409	EA 12" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....837.71		237.29		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.00			
	For 6" Overall Height Instead Of 4-5/8", Add	41.89			
26 05 36 00-1410	EA 18" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....884.59		261.99		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.62			
	For 6" Overall Height Instead Of 4-5/8", Add	44.23			
26 05 36 00-1411	EA 24" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....914.23		276.41		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.39			
	For 6" Overall Height Instead Of 4-5/8", Add	45.71			
26 05 36 00-1412	EA 30" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....989.08		311.28		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.97			
	For 6" Overall Height Instead Of 4-5/8", Add	49.45			
26 05 36 00-1413	EA 36" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....1,068.10		355.38		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.20			
	For 6" Overall Height Instead Of 4-5/8", Add	53.41			
26 05 36 00-1414	12" Radius Horizontal Crosses (26 05 36 00-1293)				
26 05 36 00-1415	EA 6" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....498.05		249.03		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.05			
	For 6" Overall Height Instead Of 4-5/8", Add	24.90			
26 05 36 00-1416	EA 9" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....528.51		261.99		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.02			
	For 6" Overall Height Instead Of 4-5/8", Add	26.43			
26 05 36 00-1417	EA 12" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....553.53		276.41		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.32			
	For 6" Overall Height Instead Of 4-5/8", Add	27.68			
26 05 36 00-1418	EA 18" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....600.83		293.12		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.66			
	For 6" Overall Height Instead Of 4-5/8", Add	30.04			
26 05 36 00-1419	EA 24" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....669.32		331.82		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.28			
	For 6" Overall Height Instead Of 4-5/8", Add	33.47			
26 05 36 00-1420	EA 30" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....728.98		355.38		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.29			
	For 6" Overall Height Instead Of 4-5/8", Add	36.45			
26 05 36 00-1421	EA 36" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....809.84		383.39		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.04			
	For 6" Overall Height Instead Of 4-5/8", Add	40.49			
26 05 36 00-1422	24" Radius Horizontal Crosses (26 05 36 00-1293)				
26 05 36 00-1423	EA 6" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....619.95		276.41		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.96			
	For 6" Overall Height Instead Of 4-5/8", Add	31.00			
26 05 36 00-1424	EA 9" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....652.59		293.12		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.83			
	For 6" Overall Height Instead Of 4-5/8", Add	32.63			
26 05 36 00-1425	EA 12" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....687.78		311.28		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.84			
	For 6" Overall Height Instead Of 4-5/8", Add	34.39			



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1426 EA 18" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	730.86 -45.43 36.54	331.82
26 05 36 00-1427 EA 24" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	832.31 -51.29 41.62	383.39
26 05 36 00-1428 EA 30" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	898.80 -55.29 44.94	415.03
26 05 36 00-1429 EA 36" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	987.51 -61.05 49.38	452.39
26 05 36 00-1430 36" Radius Horizontal Crosses (26 05 36 00-1293)		
26 05 36 00-1431 EA 6" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	706.34 -44.69 35.32	311.28
26 05 36 00-1432 EA 9" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	748.44 -47.19 37.42	331.82
26 05 36 00-1433 EA 12" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	799.30 -50.32 39.97	355.38
26 05 36 00-1434 EA 18" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	859.66 -54.02 42.98	383.39
26 05 36 00-1435 EA 24" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,027.56 -65.05 51.38	452.39
26 05 36 00-1436 EA 30" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,131.54 -71.72 56.58	497.21
26 05 36 00-1437 EA 36" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	1,260.10 -79.85 63.01	553.87
26 05 36 00-1438 12" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1439 EA 6" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	498.05 -29.05 24.90	249.03
26 05 36 00-1440 EA 9" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	528.65 -31.02 26.43	262.10
26 05 36 00-1441 EA 12" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	553.45 -32.31 27.67	276.41
26 05 36 00-1442 EA 18" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	601.02 -35.67 30.05	293.22
26 05 36 00-1443 EA 24" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	669.32 -39.28 33.47	331.82
26 05 36 00-1444 EA 30" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	729.25 -43.30 36.46	355.48
26 05 36 00-1445 EA 36" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	809.05 -49.00 40.45	382.87
26 05 36 00-1446 24" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1447 EA 6" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	619.95 -38.96 31.00	276.41
26 05 36 00-1448 EA 9" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	652.59 -40.83 32.63	293.12
26 05 36 00-1449 EA 12" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	687.78 -42.84 34.39	311.28
26 05 36 00-1450 EA 18" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	730.86 -45.43 36.54	331.82
26 05 36 00-1451 EA 24" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	832.31 -51.29 41.62	383.39
26 05 36 00-1452 EA 30" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	898.80 -55.29 44.94	415.03
26 05 36 00-1453 EA 36" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray..... For 3-5/8" Overall Height Instead Of 4-5/8", Deduct For 6" Overall Height Instead Of 4-5/8", Add	987.51 -61.05 49.38	452.39

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 36 00-1454	36" Radius Vertical Crosses (26 05 36 00-1293)				
26 05 36 00-1455	EA 6" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....790.73		311.28		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.13			
	For 6" Overall Height Instead Of 4-5/8", Add	39.54			
26 05 36 00-1456	EA 9" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....836.35		331.82		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.98			
	For 6" Overall Height Instead Of 4-5/8", Add	41.82			
26 05 36 00-1457	EA 12" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....892.48		355.38		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.64			
	For 6" Overall Height Instead Of 4-5/8", Add	44.62			
26 05 36 00-1458	EA 18" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....958.99		383.39		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.95			
	For 6" Overall Height Instead Of 4-5/8", Add	47.95			
26 05 36 00-1459	EA 24" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....1,150.63		452.39		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-77.36			
	For 6" Overall Height Instead Of 4-5/8", Add	57.53			
26 05 36 00-1460	EA 30" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....1,267.80		497.21		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-85.34			
	For 6" Overall Height Instead Of 4-5/8", Add	63.39			
26 05 36 00-1461	EA 36" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....1,411.74		553.87		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-95.02			
	For 6" Overall Height Instead Of 4-5/8", Add	70.59			
26 05 36 00-1462	Dropout Or End Plates And Reducers (26 05 36 00-0744)				
26 05 36 00-1463	Straight Reducers (26 05 36 00-1462)				
26 05 36 00-1464	EA 9"-6" Reducer, Aluminum Cable Tray .....176.50		76.58		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.27			
	For 6" Overall Height Instead Of 4-5/8", Add	8.83			
26 05 36 00-1465	EA 12"-9" Reducer, Aluminum Cable Tray .....188.12		82.91		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.90			
	For 6" Overall Height Instead Of 4-5/8", Add	9.41			
26 05 36 00-1466	EA 18"-12" Reducer, Aluminum Cable Tray .....210.55		95.66		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.08			
	For 6" Overall Height Instead Of 4-5/8", Add	10.53			
26 05 36 00-1467	EA 24"-18" Reducer, Aluminum Cable Tray .....236.58		110.71		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.43			
	For 6" Overall Height Instead Of 4-5/8", Add	11.83			
26 05 36 00-1468	EA 30"-24" Reducer, Aluminum Cable Tray .....260.70		124.51		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.69			
	For 6" Overall Height Instead Of 4-5/8", Add	13.04			
26 05 36 00-1469	EA 36"-30" Reducer, Aluminum Cable Tray .....293.54		142.25		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.50			
	For 6" Overall Height Instead Of 4-5/8", Add	14.68			
26 05 36 00-1470	Reducers (26 05 36 00-1462)				
26 05 36 00-1471	EA 18"-6" Reducer, Aluminum Cable Tray .....210.64		95.77		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.08			
	For 6" Overall Height Instead Of 4-5/8", Add	10.53			
26 05 36 00-1472	EA 24"-12" Reducer, Aluminum Cable Tray .....236.85		110.82		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.45			
	For 6" Overall Height Instead Of 4-5/8", Add	11.84			
26 05 36 00-1473	EA 30"-12" Reducer, Aluminum Cable Tray .....260.53		124.40		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.69			
	For 6" Overall Height Instead Of 4-5/8", Add	13.03			
26 05 36 00-1474	EA 36"-18" Reducer, Aluminum Cable Tray .....261.45		124.30		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-15.79			
	For 6" Overall Height Instead Of 4-5/8", Add	13.07			
26 05 36 00-1475	EA 36"-12" Reducer, Aluminum Cable Tray .....292.46		142.25		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.39			
	For 6" Overall Height Instead Of 4-5/8", Add	14.62			
26 05 36 00-1476	EA 36"-18" Reducer, Aluminum Cable Tray .....299.77		145.99		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.81			
	For 6" Overall Height Instead Of 4-5/8", Add	14.99			
26 05 36 00-1477	EA 36"-24" Reducer, Aluminum Cable Tray .....309.72		150.66		
	For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.42			
	For 6" Overall Height Instead Of 4-5/8", Add	15.49			
26 05 36 00-1478	Dropout Or End Plate (26 05 36 00-1462)				
26 05 36 00-1479	EA 6" Dropout Or End Plate, Aluminum Cable Tray .....58.34		31.13		
26 05 36 00-1480	EA 9" Dropout Or End Plate, Aluminum Cable Tray .....66.14		35.59		
26 05 36 00-1481	EA 12" Dropout Or End Plate, Aluminum Cable Tray .....71.30		38.29		
26 05 36 00-1482	EA 18" Dropout Or End Plate, Aluminum Cable Tray .....85.46		45.24		
26 05 36 00-1483	EA 24" Dropout Or End Plate, Aluminum Cable Tray .....94.79		49.81		
26 05 36 00-1484	EA 30" Dropout Or End Plate, Aluminum Cable Tray .....106.24		55.30		
26 05 36 00-1485	EA 36" Dropout Or End Plate, Aluminum Cable Tray .....119.33		62.25		



Electrical		26
Common Work Results For Electrical		26 05
Cable Trays For Electrical Systems		26 05 36

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1486	Solid Bottom Cable Tray (26 05 36 00-0001) Note: 3-5/8" Height.		
26 05 36 00-1487	Solid Bottom Galvanized Steel Straight Tray Sections (26 05 36 00-1486)		
26 05 36 00-1488	LF 6" Solid Bottom Steel Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 3-5/8", Add	21.53 1.87	8.09
26 05 36 00-1489	LF 12" Solid Bottom Steel Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 3-5/8", Add	26.70 2.35	9.96
26 05 36 00-1490	LF 18" Solid Bottom Steel Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 3-5/8", Add	36.30 3.06	14.32
26 05 36 00-1491	LF 24" Solid Bottom Steel Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 3-5/8", Add	41.91 3.55	16.39
26 05 36 00-1492	LF 30" Solid Bottom Steel Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 3-5/8", Add	50.33 4.24	19.82
26 05 36 00-1493	LF 36" Solid Bottom Steel Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 3-5/8", Add	62.56 5.60	22.72
26 05 36 00-1494	Solid Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1486)		
26 05 36 00-1495	90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1496	EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	233.34 17.70	103.87
26 05 36 00-1497	EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	311.09 22.31	146.09
26 05 36 00-1498	EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	384.51 26.94	184.38
26 05 36 00-1499	EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	471.64 32.99	226.50
26 05 36 00-1500	EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	549.56 38.69	262.51
26 05 36 00-1501	EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	616.31 43.60	293.12
26 05 36 00-1502	90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1503	EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	265.87 21.85	108.11
26 05 36 00-1504	EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	359.73 27.99	155.74
26 05 36 00-1505	EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	447.88 33.97	199.32
26 05 36 00-1506	EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	550.07 41.01	249.03
26 05 36 00-1507	EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	645.54 48.07	292.60
26 05 36 00-1508	EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	730.33 54.24	331.82
26 05 36 00-1509	90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1510	EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	313.65 28.22	112.99
26 05 36 00-1511	EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	418.21 35.02	166.33
26 05 36 00-1512	EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	533.70 43.93	216.76
26 05 36 00-1513	EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	647.63 51.07	276.41
26 05 36 00-1514	EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	777.35 61.29	331.82
26 05 36 00-1515	EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	889.34 69.67	382.35
26 05 36 00-1516	45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1517	EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	218.37 15.44	103.87
26 05 36 00-1518	EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	294.21 19.77	146.09
26 05 36 00-1519	EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	364.85 24.03	184.17
26 05 36 00-1520	EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	447.56 29.43	226.19
26 05 36 00-1521	EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	521.53 34.49	262.51
26 05 36 00-1522	EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	583.45 38.76	292.60
26 05 36 00-1523	45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1524	EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	244.59 18.65	108.22

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1525 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	334.45 24.23	155.64
26 05 36 00-1526 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	419.37 29.65	199.53
26 05 36 00-1527 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	516.31 35.94	249.03
26 05 36 00-1528 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	606.96 42.19	293.12
26 05 36 00-1529 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	686.02 47.59	331.82
26 05 36 00-1530 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1531 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	282.57 23.53	113.10
26 05 36 00-1532 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	357.15 28.44	150.76
26 05 36 00-1533 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	490.59 37.46	216.76
26 05 36 00-1534 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	601.74 44.10	276.94
26 05 36 00-1535 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	721.29 52.88	331.82
26 05 36 00-1536 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	827.91 60.30	383.39
26 05 36 00-1537 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1494)		
26 05 36 00-1538 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	246.14 19.66	103.56
26 05 36 00-1539 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	320.74 23.75	146.09
26 05 36 00-1540 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	385.71 27.12	184.38
26 05 36 00-1541 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	469.23 32.63	226.50
26 05 36 00-1542 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	535.09 36.52	262.51
26 05 36 00-1543 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	588.87 39.57	292.60
26 05 36 00-1544 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1494)		
26 05 36 00-1545 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	283.95 24.57	108.11
26 05 36 00-1546 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	372.99 29.98	155.74
26 05 36 00-1547 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	455.11 35.05	199.32
26 05 36 00-1548 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	548.87 40.83	249.03
26 05 36 00-1549 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	628.66 45.54	292.60
26 05 36 00-1550 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	707.42 50.80	331.82
26 05 36 00-1551 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1494)		
26 05 36 00-1552 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	329.32 30.57	112.99
26 05 36 00-1553 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	409.79 36.28	151.07
26 05 36 00-1554 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	533.70 43.93	216.76
26 05 36 00-1555 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	650.04 51.43	276.41
26 05 36 00-1556 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	759.27 58.58	331.82
26 05 36 00-1557 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	861.60 65.51	382.35
26 05 36 00-1558 12" Radius Horizontal Tees (26 05 36 00-1494)		
26 05 36 00-1559 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	416.53 29.27	199.32
26 05 36 00-1560 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	506.01 34.46	248.60
26 05 36 00-1561 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	597.02 40.70	293.12
26 05 36 00-1562 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	715.37 47.95	356.10
26 05 36 00-1563 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	777.57 52.74	383.39



Electrical		26
Common Work Results For Electrical		26 05
Cable Trays For Electrical Systems		26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1564	EA	36" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	913.23 61.58	452.39
26 05 36 00-1565		24" Radius Horizontal Tees (26 05 36 00-1494)		
26 05 36 00-1566	EA	6" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	492.19 37.75	216.44
26 05 36 00-1567	EA	12" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	613.87 46.01	276.41
26 05 36 00-1568	EA	18" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	723.10 53.16	331.82
26 05 36 00-1569	EA	24" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	922.02 69.13	415.03
26 05 36 00-1570	EA	30" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,004.86 75.32	452.39
26 05 36 00-1571	EA	36" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,194.41 86.85	553.87
26 05 36 00-1572		36" Radius Horizontal Tees (26 05 36 00-1494)		
26 05 36 00-1573	EA	6" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	601.61 50.70	237.29
26 05 36 00-1574	EA	12" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	749.09 60.48	311.28
26 05 36 00-1575	EA	18" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	889.70 69.56	383.39
26 05 36 00-1576	EA	24" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,076.00 85.99	452.39
26 05 36 00-1577	EA	30" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,181.07 94.02	498.87
26 05 36 00-1578	EA	36" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,399.31 106.14	622.55
26 05 36 00-1579		12" Radius Vertical Tees (26 05 36 00-1494)		
26 05 36 00-1580	EA	6" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	470.79 37.41	199.32
26 05 36 00-1581	EA	12" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	559.72 42.46	249.03
26 05 36 00-1582	EA	18" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	607.84 45.10	276.41
26 05 36 00-1583	EA	24" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	649.16 48.62	292.60
26 05 36 00-1584	EA	30" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	725.51 53.52	331.82
26 05 36 00-1585	EA	36" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	817.36 58.71	383.39
26 05 36 00-1586		24" Radius Vertical Tees (26 05 36 00-1494)		
26 05 36 00-1587	EA	6" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	565.74 48.78	216.44
26 05 36 00-1588	EA	12" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	675.36 55.23	276.41
26 05 36 00-1589	EA	18" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	744.27 59.76	311.28
26 05 36 00-1590	EA	24" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	789.41 63.10	331.82
26 05 36 00-1591	EA	30" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	898.14 70.83	383.39
26 05 36 00-1592	EA	36" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,025.36 78.40	452.39
26 05 36 00-1593		36" Radius Vertical Tees (26 05 36 00-1494)		
26 05 36 00-1594	EA	6" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	714.35 67.67	236.88
26 05 36 00-1595	EA	12" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	844.35 74.77	311.28
26 05 36 00-1596	EA	18" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	941.89 82.06	355.38
26 05 36 00-1597	EA	24" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,000.63 86.20	383.39
26 05 36 00-1598	EA	30" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,176.07 101.00	452.39
26 05 36 00-1599	EA	36" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,274.87 108.36	497.21
26 05 36 00-1600		12" Radius Horizontal Crosses (26 05 36 00-1494)		
26 05 36 00-1601	EA	6" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	516.31 35.94	249.03

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1602 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	598.22	293.12
For 4-5/8" Overall Height Instead Of 3-5/8", Add	40.88	
26 05 36 00-1603 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	721.24	355.38
For 4-5/8" Overall Height Instead Of 3-5/8", Add	48.96	
26 05 36 00-1604 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	836.42	415.03
For 4-5/8" Overall Height Instead Of 3-5/8", Add	56.29	
26 05 36 00-1605 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	990.32	497.21
For 4-5/8" Overall Height Instead Of 3-5/8", Add	65.67	
26 05 36 00-1606 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,100.36	553.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	72.74	
26 05 36 00-1607 24" Radius Horizontal Crosses (26 05 36 00-1494)		
26 05 36 00-1608 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	646.05	276.94
For 4-5/8" Overall Height Instead Of 3-5/8", Add	50.75	
26 05 36 00-1609 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	759.27	331.82
For 4-5/8" Overall Height Instead Of 3-5/8", Add	58.58	
26 05 36 00-1610 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	922.02	415.03
For 4-5/8" Overall Height Instead Of 3-5/8", Add	69.13	
26 05 36 00-1611 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,126.81	498.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	85.88	
26 05 36 00-1612 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,242.64	553.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	94.08	
26 05 36 00-1613 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,375.19	622.55
For 4-5/8" Overall Height Instead Of 3-5/8", Add	102.52	
26 05 36 00-1614 36" Radius Horizontal Crosses (26 05 36 00-1494)		
26 05 36 00-1615 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	820.23	311.28
For 4-5/8" Overall Height Instead Of 3-5/8", Add	71.15	
26 05 36 00-1616 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	970.48	383.39
For 4-5/8" Overall Height Instead Of 3-5/8", Add	81.68	
26 05 36 00-1617 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,193.13	498.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	95.83	
26 05 36 00-1618 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,351.15	553.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	110.36	
26 05 36 00-1619 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,501.79	622.55
For 4-5/8" Overall Height Instead Of 3-5/8", Add	121.51	
26 05 36 00-1620 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,678.82	710.65
For 4-5/8" Overall Height Instead Of 3-5/8", Add	133.38	
26 05 36 00-1621 Straight Reducers (26 05 36 00-1494)		
26 05 36 00-1622 EA 12"-6" Reducer, Solid Bottom, Steel Cable Tray.....	197.43	83.01
For 4-5/8" Overall Height Instead Of 3-5/8", Add	15.78	
26 05 36 00-1623 EA 18"-12" Reducer, Solid Bottom, Steel Cable Tray.....	216.65	93.80
For 4-5/8" Overall Height Instead Of 3-5/8", Add	16.86	
26 05 36 00-1624 EA 24"-18" Reducer, Solid Bottom, Steel Cable Tray.....	242.84	108.11
For 4-5/8" Overall Height Instead Of 3-5/8", Add	18.41	
26 05 36 00-1625 EA 30"-24" Reducer, Solid Bottom, Steel Cable Tray.....	275.04	124.51
For 4-5/8" Overall Height Instead Of 3-5/8", Add	20.50	
26 05 36 00-1626 EA 36"-30" Reducer, Solid Bottom, Steel Cable Tray.....	300.10	138.11
For 4-5/8" Overall Height Instead Of 3-5/8", Add	22.00	
26 05 36 00-1627 Reducers (26 05 36 00-1494)		
26 05 36 00-1628 EA 18"-6" Reducer, Solid Bottom, Steel Cable Tray.....	216.74	93.90
For 4-5/8" Overall Height Instead Of 3-5/8", Add	16.87	
26 05 36 00-1629 EA 24"-12" Reducer, Solid Bottom, Steel Cable Tray.....	242.00	108.32
For 4-5/8" Overall Height Instead Of 3-5/8", Add	18.25	
26 05 36 00-1630 EA 30"-12" Reducer, Solid Bottom, Steel Cable Tray.....	272.46	124.40
For 4-5/8" Overall Height Instead Of 3-5/8", Add	20.13	
26 05 36 00-1631 EA 36"-18" Reducer, Solid Bottom, Steel Cable Tray.....	273.50	124.30
For 4-5/8" Overall Height Instead Of 3-5/8", Add	20.31	
26 05 36 00-1632 EA 36"-12" Reducer, Solid Bottom, Steel Cable Tray.....	298.90	138.11
For 4-5/8" Overall Height Instead Of 3-5/8", Add	21.82	
26 05 36 00-1633 EA 36"-18" Reducer, Solid Bottom, Steel Cable Tray.....	300.10	138.11
For 4-5/8" Overall Height Instead Of 3-5/8", Add	22.00	
26 05 36 00-1634 EA 36"-24" Reducer, Solid Bottom, Steel Cable Tray.....	301.71	138.31
For 4-5/8" Overall Height Instead Of 3-5/8", Add	22.20	
26 05 36 00-1635 Dropout Or End Plate (26 05 36 00-1494)		
26 05 36 00-1636 EA 6" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	64.18	31.13
26 05 36 00-1637 EA 12" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	78.61	37.98
26 05 36 00-1638 EA 18" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	91.52	45.03
26 05 36 00-1639 EA 24" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	102.36	49.81
26 05 36 00-1640 EA 30" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	113.84	55.30
26 05 36 00-1641 EA 36" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	126.97	62.25
26 05 36 00-1642 Solid Bottom Aluminum Straight Cable Tray Sections (26 05 36 00-1486)		



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		Common Work Results For Electrical	26 05
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 36 00-1643	LF 6" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	19.55	1.84	6.54
26 05 36 00-1644	LF 12" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	24.07	2.34	7.67
26 05 36 00-1645	LF 18" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	30.91	2.97	9.96
26 05 36 00-1646	LF 24" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.21	3.61	11.00
26 05 36 00-1647	LF 30" Solid Bottom Aluminum Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	44.84	4.36	14.22
26 05 36 00-1648	LF 36" Solid Bottom Steel Aluminum Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	52.58	5.29	15.57
26 05 36 00-1649 Solid Bottom Aluminum Cable Tray Fittings (26 05 36 00-1486)				
26 05 36 00-1650 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1649)				
26 05 36 00-1651	EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	242.51	19.07	103.87
26 05 36 00-1652	EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	296.12	22.62	130.73
26 05 36 00-1653	EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	339.53	26.53	146.40
26 05 36 00-1654	EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	396.23	30.77	171.93
26 05 36 00-1655	EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	466.05	36.65	199.53
26 05 36 00-1656	EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	527.36	41.35	226.50
26 05 36 00-1657 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1649)				
26 05 36 00-1658	EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	279.02	23.83	108.11
26 05 36 00-1659	EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	347.99	29.12	138.52
26 05 36 00-1660	EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	392.88	32.99	155.64
26 05 36 00-1661	EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	472.30	40.11	184.38
26 05 36 00-1662	EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	549.11	46.34	216.13
26 05 36 00-1663	EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	632.09	53.31	249.03
26 05 36 00-1664 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1649)				
26 05 36 00-1665	EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	334.76	31.39	112.99
26 05 36 00-1666	EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	420.31	38.60	146.71
26 05 36 00-1667	EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	485.51	45.11	166.33
26 05 36 00-1668	EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	555.28	50.12	199.01
26 05 36 00-1669	EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	648.30	57.70	237.29
26 05 36 00-1670	EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	756.20	67.44	276.00
26 05 36 00-1671 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1649)				
26 05 36 00-1672	EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	227.34	16.79	103.87
26 05 36 00-1673	EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	278.93	20.04	130.73
26 05 36 00-1674	EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	318.29	23.36	146.30
26 05 36 00-1675	EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	371.49	27.12	171.62
26 05 36 00-1676	EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	436.68	32.25	199.53
26 05 36 00-1677	EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	493.30	36.35	225.88
26 05 36 00-1678 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1649)				
26 05 36 00-1679	EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	257.42	20.57	108.22
26 05 36 00-1680	EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	321.99	25.24	138.31
26 05 36 00-1681	EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	364.03	28.61	155.95

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1682 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	436.01 34.67	184.38
26 05 36 00-1683 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	508.57 40.16	216.76
26 05 36 00-1684 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	584.33 46.15	249.03
26 05 36 00-1685 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1686 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	302.80 26.57	113.10
26 05 36 00-1687 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	381.17 32.77	146.40
26 05 36 00-1688 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	439.67 38.24	166.33
26 05 36 00-1689 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	506.94 42.79	199.53
26 05 36 00-1690 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	592.67 49.36	237.29
26 05 36 00-1691 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	692.67 57.74	276.94
26 05 36 00-1692 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1649)		
26 05 36 00-1693 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	255.07 21.00	103.56
26 05 36 00-1694 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	303.72 23.76	130.73
26 05 36 00-1695 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	340.62 26.69	146.40
26 05 36 00-1696 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	388.64 29.63	171.93
26 05 36 00-1697 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	441.09 32.91	199.53
26 05 36 00-1698 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	488.26 35.59	225.88
26 05 36 00-1699 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1649)		
26 05 36 00-1700 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	297.47 26.59	108.11
26 05 36 00-1701 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	357.76 30.59	138.52
26 05 36 00-1702 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	396.14 33.48	155.64
26 05 36 00-1703 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	456.02 37.67	184.38
26 05 36 00-1704 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	517.64 41.62	216.13
26 05 36 00-1705 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	588.67 46.80	249.03
26 05 36 00-1706 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1649)		
26 05 36 00-1707 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	342.36 32.53	112.99
26 05 36 00-1708 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	418.13 38.27	146.71
26 05 36 00-1709 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	465.98 42.18	166.33
26 05 36 00-1710 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	528.15 46.05	199.01
26 05 36 00-1711 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	612.49 52.33	237.29
26 05 36 00-1712 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	685.66 56.86	276.00
26 05 36 00-1713 12" Radius Horizontal Tees (26 05 36 00-1649)		
26 05 36 00-1714 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	439.57 32.72	199.32
26 05 36 00-1715 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	506.71 38.36	225.88
26 05 36 00-1716 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	561.54 42.73	249.03
26 05 36 00-1717 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	625.45 47.66	276.94
26 05 36 00-1718 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	741.93 55.98	331.82
26 05 36 00-1719 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	908.79 67.15	415.03



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1720 24" Radius Horizontal Tees (26 05 36 00-1649)		
26 05 36 00-1721 EA 6" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	537.67 44.57	216.44
26 05 36 00-1722 EA 12" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	614.72 50.71	249.03
26 05 36 00-1723 EA 18" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	686.48 56.90	276.41
26 05 36 00-1724 EA 24" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	829.84 69.17	331.82
26 05 36 00-1725 EA 30" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,006.46 81.80	415.03
26 05 36 00-1726 EA 36" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,108.98 90.72	453.74
26 05 36 00-1727 36" Radius Horizontal Tees (26 05 36 00-1649)		
26 05 36 00-1728 EA 6" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	683.03 62.91	237.29
26 05 36 00-1729 EA 12" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	775.47 70.25	276.41
26 05 36 00-1730 EA 18" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	882.37 80.48	311.28
26 05 36 00-1731 EA 24" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,060.60 95.36	382.35
26 05 36 00-1732 EA 30" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,298.08 111.57	498.87
26 05 36 00-1733 EA 36" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,444.05 124.30	553.87
26 05 36 00-1734 12" Radius Vertical Tees (26 05 36 00-1649)		
26 05 36 00-1735 EA 6" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	485.15 39.56	199.32
26 05 36 00-1736 EA 12" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	533.31 42.29	226.19
26 05 36 00-1737 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	557.62 44.16	236.88
26 05 36 00-1738 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	588.01 46.76	248.60
26 05 36 00-1739 EA 30" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	649.58 51.36	276.41
26 05 36 00-1740 EA 36" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	752.78 57.61	331.82
26 05 36 00-1741 24" Radius Vertical Tees (26 05 36 00-1649)		
26 05 36 00-1742 EA 6" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	586.51 51.90	216.44
26 05 36 00-1743 EA 12" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	653.79 56.57	249.03
26 05 36 00-1744 EA 18" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	691.74 60.09	261.99
26 05 36 00-1745 EA 24" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	737.49 64.55	276.41
26 05 36 00-1746 EA 30" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	822.68 71.52	311.28
26 05 36 00-1747 EA 36" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	957.50 79.89	382.35
26 05 36 00-1748 36" Radius Vertical Tees (26 05 36 00-1649)		
26 05 36 00-1749 EA 6" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	747.55 72.65	236.88
26 05 36 00-1750 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	824.08 78.10	273.10
26 05 36 00-1751 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	878.29 82.98	292.60
26 05 36 00-1752 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	920.35 86.17	311.28
26 05 36 00-1753 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	1,026.34 94.73	355.38
26 05 36 00-1754 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	801.82 44.87	452.39
26 05 36 00-1755 12" Radius Horizontal Crosses (26 05 36 00-1649)		
26 05 36 00-1756 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	513.78 39.36	226.19
26 05 36 00-1757 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	569.14 43.87	249.03
26 05 36 00-1758 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray For 4-5/8" Overall Height Instead Of 3-5/8", Add	663.41 50.75	292.60

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1759	EA	24" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	791.92 59.57	355.38
26 05 36 00-1760	EA	30" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	863.08 65.73	382.35
26 05 36 00-1761	EA	36" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,005.87 75.25	453.74
26 05 36 00-1762		24" Radius Horizontal Crosses (26 05 36 00-1649)		
26 05 36 00-1763	EA	6" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	654.46 56.60	249.44
26 05 36 00-1764	EA	12" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	737.49 64.55	276.41
26 05 36 00-1765	EA	18" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	853.71 72.75	331.82
26 05 36 00-1766	EA	24" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,057.15 89.21	416.17
26 05 36 00-1767	EA	30" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,157.81 98.05	453.74
26 05 36 00-1768	EA	36" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,340.95 108.83	553.87
26 05 36 00-1769		36" Radius Horizontal Crosses (26 05 36 00-1649)		
26 05 36 00-1770	EA	6" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	867.72 84.08	276.41
26 05 36 00-1771	EA	12" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	958.34 91.87	311.28
26 05 36 00-1772	EA	18" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,127.29 105.20	383.39
26 05 36 00-1773	EA	24" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,363.20 121.34	498.87
26 05 36 00-1774	EA	30" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,498.32 132.44	553.87
26 05 36 00-1775	EA	36" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,710.46 152.81	622.55
26 05 36 00-1776		Straight Reducers (26 05 36 00-1649)		
26 05 36 00-1777	EA	12"-6" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	185.95 16.03	71.18
26 05 36 00-1778	EA	18"-12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	207.59 17.33	82.91
26 05 36 00-1779	EA	24"-18" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	230.16 18.89	93.80
26 05 36 00-1780	EA	30"-24" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	260.70 21.07	108.22
26 05 36 00-1781	EA	36"-30" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	291.84 23.06	124.30
26 05 36 00-1782		Reducers (26 05 36 00-1649)		
26 05 36 00-1783	EA	18"-6" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	206.57 17.17	82.91
26 05 36 00-1784	EA	24"-12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	229.35 18.74	94.01
26 05 36 00-1785	EA	30"-12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	258.40 20.73	108.11
26 05 36 00-1786	EA	30"-18" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	259.37 20.89	108.11
26 05 36 00-1787	EA	36"-12" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	291.84 23.06	124.30
26 05 36 00-1788	EA	36"-18" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	292.93 23.22	124.30
26 05 36 00-1789	EA	36"-24" Reducer, Solid Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	295.43 23.56	124.51
26 05 36 00-1790		Dropout Or End Plate (26 05 36 00-1649)		
26 05 36 00-1791	EA	6" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	65.61	31.13
26 05 36 00-1792	EA	12" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	78.82	37.98
26 05 36 00-1793	EA	18" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	93.68	45.03
26 05 36 00-1794	EA	24" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	103.47	49.81
26 05 36 00-1795	EA	30" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	116.02	55.30
26 05 36 00-1796	EA	36" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	131.43	62.25
26 05 36 00-1797		Vented Bottom Cable Tray (26 05 36 00-0001) Note: 6" Height.		
26 05 36 00-1798		Vented Bottom Galvanized Steel Cable Tray (26 05 36 00-1797)		
26 05 36 00-1799	LF	6" Vented Bottom Steel Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	28.61 -1.95	10.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1800 LF 12" Vented Bottom Steel Cable Tray, Straight Section	33.43	12.45
For 4-5/8" Overall Height Instead Of 6", Deduct	-2.31	
26 05 36 00-1801 LF 18" Vented Bottom Steel Cable Tray, Straight Section	39.18	14.32
For 4-5/8" Overall Height Instead Of 6", Deduct	-2.72	
26 05 36 00-1802 LF 24" Vented Bottom Steel Cable Tray, Straight Section	44.96	16.39
For 4-5/8" Overall Height Instead Of 6", Deduct	-3.13	
26 05 36 00-1803 LF 30" Vented Bottom Steel Cable Tray, Straight Section	58.29	19.82
For 4-5/8" Overall Height Instead Of 6", Deduct	-4.17	
26 05 36 00-1804 LF 36" Vented Bottom Steel Cable Tray, Straight Section	69.78	24.90
For 4-5/8" Overall Height Instead Of 6", Deduct	-4.90	
26 05 36 00-1805 Vented Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1797)		
26 05 36 00-1806 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1807 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	282.72	131.15
For 4-5/8" Overall Height Instead Of 6", Deduct	-17.35	
26 05 36 00-1808 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	371.97	177.43
For 4-5/8" Overall Height Instead Of 6", Deduct	-22.41	
26 05 36 00-1809 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	464.62	226.19
For 4-5/8" Overall Height Instead Of 6", Deduct	-27.61	
26 05 36 00-1810 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	569.56	276.94
For 4-5/8" Overall Height Instead Of 6", Deduct	-33.88	
26 05 36 00-1811 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	642.23	311.90
For 4-5/8" Overall Height Instead Of 6", Deduct	-38.23	
26 05 36 00-1812 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	735.17	356.10
For 4-5/8" Overall Height Instead Of 6", Deduct	-43.84	
26 05 36 00-1813 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1814 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	325.16	138.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-21.00	
26 05 36 00-1815 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	428.64	191.64
For 4-5/8" Overall Height Instead Of 6", Deduct	-26.89	
26 05 36 00-1816 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	547.01	249.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-33.95	
26 05 36 00-1817 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	667.58	311.28
For 4-5/8" Overall Height Instead Of 6", Deduct	-40.82	
26 05 36 00-1818 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	707.53	321.54
For 4-5/8" Overall Height Instead Of 6", Deduct	-43.96	
26 05 36 00-1819 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	890.91	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-54.50	
26 05 36 00-1820 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1821 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	385.15	146.09
For 4-5/8" Overall Height Instead Of 6", Deduct	-26.34	
26 05 36 00-1822 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	508.31	207.83
For 4-5/8" Overall Height Instead Of 6", Deduct	-33.51	
26 05 36 00-1823 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	655.95	276.94
For 4-5/8" Overall Height Instead Of 6", Deduct	-42.52	
26 05 36 00-1824 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	797.41	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-50.13	
26 05 36 00-1825 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	922.10	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-57.62	
26 05 36 00-1826 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	1,085.52	497.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-67.11	
26 05 36 00-1827 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1828 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	268.79	131.25
For 4-5/8" Overall Height Instead Of 6", Deduct	-15.94	
26 05 36 00-1829 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	355.21	177.43
For 4-5/8" Overall Height Instead Of 6", Deduct	-20.73	
26 05 36 00-1830 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	444.80	225.88
For 4-5/8" Overall Height Instead Of 6", Deduct	-25.66	
26 05 36 00-1831 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	544.97	276.41
For 4-5/8" Overall Height Instead Of 6", Deduct	-31.46	
26 05 36 00-1832 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	615.30	311.90
For 4-5/8" Overall Height Instead Of 6", Deduct	-35.54	
26 05 36 00-1833 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray	702.67	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-40.66	
26 05 36 00-1834 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1835 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	304.51	138.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-18.92	
26 05 36 00-1836 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	404.62	191.64
For 4-5/8" Overall Height Instead Of 6", Deduct	-24.49	
26 05 36 00-1837 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	518.65	249.44
For 4-5/8" Overall Height Instead Of 6", Deduct	-31.08	
26 05 36 00-1838 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray	634.85	311.28
For 4-5/8" Overall Height Instead Of 6", Deduct	-37.55	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1839 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	727.42	356.10
For 4-5/8" Overall Height Instead Of 6", Deduct	-43.06	
26 05 36 00-1840 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	847.09	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-50.12	
26 05 36 00-1841 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1842 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray	354.47	146.40
For 4-5/8" Overall Height Instead Of 6", Deduct	-23.25	
26 05 36 00-1843 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	471.76	207.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-29.91	
26 05 36 00-1844 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	613.18	276.94
For 4-5/8" Overall Height Instead Of 6", Deduct	-38.24	
26 05 36 00-1845 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	753.63	356.10
For 4-5/8" Overall Height Instead Of 6", Deduct	-45.68	
26 05 36 00-1846 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	871.42	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-52.56	
26 05 36 00-1847 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,031.69	498.87
For 4-5/8" Overall Height Instead Of 6", Deduct	-61.60	
26 05 36 00-1848 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1849 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	300.77	130.73
For 4-5/8" Overall Height Instead Of 6", Deduct	-19.18	
26 05 36 00-1850 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	388.17	177.43
For 4-5/8" Overall Height Instead Of 6", Deduct	-24.03	
26 05 36 00-1851 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	470.62	226.19
For 4-5/8" Overall Height Instead Of 6", Deduct	-28.21	
26 05 36 00-1852 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	568.36	276.94
For 4-5/8" Overall Height Instead Of 6", Deduct	-33.76	
26 05 36 00-1853 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	629.03	311.90
For 4-5/8" Overall Height Instead Of 6", Deduct	-36.91	
26 05 36 00-1854 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray	707.42	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-41.13	
26 05 36 00-1855 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1856 EA 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	349.16	138.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-23.40	
26 05 36 00-1857 EA 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	445.44	191.64
For 4-5/8" Overall Height Instead Of 6", Deduct	-28.57	
26 05 36 00-1858 EA 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	554.21	249.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-34.67	
26 05 36 00-1859 EA 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	662.78	311.28
For 4-5/8" Overall Height Instead Of 6", Deduct	-40.34	
26 05 36 00-1860 EA 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	754.21	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-45.81	
26 05 36 00-1861 EA 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray	860.91	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-51.50	
26 05 36 00-1862 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1805)		
26 05 36 00-1863 EA 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	404.35	146.09
For 4-5/8" Overall Height Instead Of 6", Deduct	-28.26	
26 05 36 00-1864 EA 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	516.71	207.83
For 4-5/8" Overall Height Instead Of 6", Deduct	-34.35	
26 05 36 00-1865 EA 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	651.15	276.94
For 4-5/8" Overall Height Instead Of 6", Deduct	-42.04	
26 05 36 00-1866 EA 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	795.01	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-49.89	
26 05 36 00-1867 EA 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	899.31	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-55.34	
26 05 36 00-1868 EA 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray	1,059.12	497.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-64.47	
26 05 36 00-1869 12" Radius Horizontal Tees (26 05 36 00-1805)		
26 05 36 00-1870 EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	512.22	249.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-30.47	
26 05 36 00-1871 EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	625.75	310.66
For 4-5/8" Overall Height Instead Of 6", Deduct	-36.69	
26 05 36 00-1872 EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	715.98	356.10
For 4-5/8" Overall Height Instead Of 6", Deduct	-41.92	
26 05 36 00-1873 EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	833.31	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-48.74	
26 05 36 00-1874 EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	916.05	452.39
For 4-5/8" Overall Height Instead Of 6", Deduct	-53.90	
26 05 36 00-1875 EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray	1,006.33	497.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-59.20	
26 05 36 00-1876 24" Radius Horizontal Tees (26 05 36 00-1805)		



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 36 00-1877	EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	621.52		276.41	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-39.12			
26 05 36 00-1878	EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	767.41		355.38	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-47.13			
26 05 36 00-1879	EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	887.31		415.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-54.14			
26 05 36 00-1880	EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,083.12		497.21	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-66.87			
26 05 36 00-1881	EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,199.09		553.87	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-73.75			
26 05 36 00-1882	EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,342.35		622.55	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-82.36			
26 05 36 00-1883 36" Radius Horizontal Tees (26 05 36 00-1805)					
26 05 36 00-1884	EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	749.17		311.28	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-48.98			
26 05 36 00-1885	EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	954.50		415.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-60.86			
26 05 36 00-1886	EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,118.18		498.87	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-70.25			
26 05 36 00-1887	EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,383.15		622.55	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-86.44			
26 05 36 00-1888	EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,555.86		713.97	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-96.09			
26 05 36 00-1889	EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,811.73		827.89	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-112.18			
26 05 36 00-1890 12" Radius Vertical Tees (26 05 36 00-1805)					
26 05 36 00-1891	EA 6" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	577.01		249.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-36.95			
26 05 36 00-1892	EA 12" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	683.18		311.28	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-42.38			
26 05 36 00-1893	EA 18" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	721.07		331.82	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-44.45			
26 05 36 00-1894	EA 24" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	769.81		355.38	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-47.37			
26 05 36 00-1895	EA 30" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	827.29		383.39	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-50.78			
26 05 36 00-1896	EA 36" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	946.05		452.39	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-56.90			
26 05 36 00-1897 24" Radius Vertical Tees (26 05 36 00-1805)					
26 05 36 00-1898	EA 6" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	677.91		276.41	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-44.75			
26 05 36 00-1899	EA 12" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	820.20		355.38	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-52.41			
26 05 36 00-1900	EA 18" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	877.68		383.39	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-55.82			
26 05 36 00-1901	EA 24" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	948.50		415.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-60.26			
26 05 36 00-1902	EA 30" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,024.04		452.39	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-64.70			
26 05 36 00-1903	EA 36" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,215.89		553.87	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-75.43			
26 05 36 00-1904 36" Radius Vertical Tees (26 05 36 00-1805)					
26 05 36 00-1905	EA 6" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	863.32		310.66	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-60.44			
26 05 36 00-1906	EA 12" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,045.69		415.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-69.98			
26 05 36 00-1907	EA 18" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,120.03		452.39	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-74.30			
26 05 36 00-1908	EA 24" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,221.36		498.87	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-80.57			
26 05 36 00-1909	EA 30" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,373.07		553.87	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-91.15			
26 05 36 00-1910	EA 36" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,640.42		710.65	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-104.82			
26 05 36 00-1911 12" Radius Horizontal Crosses (26 05 36 00-1805)					
26 05 36 00-1912	EA 6" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	643.59		311.28	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-38.42			
26 05 36 00-1913	EA 12" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	719.58		356.10	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-42.28			
26 05 36 00-1914	EA 18" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	832.11		415.03	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-48.62			
26 05 36 00-1915	EA 24" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	976.33		497.21	
	For 4-5/8" Overall Height Instead Of 6", Deduct	-56.20			

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1916	EA	30" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,085.43 -62.55	551.90
26 05 36 00-1917	EA	36" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,223.57 -70.48	622.55
26 05 36 00-1918 24" Radius Horizontal Crosses (26 05 36 00-1805)				
26 05 36 00-1919	EA	6" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	789.17 -49.24	356.10
26 05 36 00-1920	EA	12" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	896.91 -55.10	415.03
26 05 36 00-1921	EA	18" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,054.32 -63.99	497.21
26 05 36 00-1922	EA	24" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,324.36 -80.56	622.55
26 05 36 00-1923	EA	30" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,501.23 -90.90	710.65
26 05 36 00-1924	EA	36" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,715.74 -102.59	827.89
26 05 36 00-1925 36" Radius Horizontal Crosses (26 05 36 00-1805)				
26 05 36 00-1926	EA	6" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,021.69 -67.58	415.03
26 05 36 00-1927	EA	12" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,178.17 -76.25	498.87
26 05 36 00-1928	EA	18" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,391.55 -87.28	622.55
26 05 36 00-1929	EA	24" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,813.10 -111.95	832.25
26 05 36 00-1930	EA	30" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,130.75 -129.94	997.64
26 05 36 00-1931	EA	36" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,579.12 -154.15	1,245.11
26 05 36 00-1932 Straight Reducers (26 05 36 00-1805)				
26 05 36 00-1933	EA	12"-6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	237.30 -14.89	106.04
26 05 36 00-1934	EA	18"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	260.40 -16.17	118.49
26 05 36 00-1935	EA	24"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	297.36 -18.23	138.11
26 05 36 00-1936	EA	30"-24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	328.98 -19.93	155.64
26 05 36 00-1937	EA	36"-30" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	360.07 -21.72	171.41
26 05 36 00-1938 Reducers (26 05 36 00-1805)				
26 05 36 00-1939	EA	18"-6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	260.40 -16.17	118.49
26 05 36 00-1940	EA	24"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	296.56 -18.13	138.31
26 05 36 00-1941	EA	30"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	327.53 -19.80	155.43
26 05 36 00-1942	EA	36"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	328.47 -19.90	155.33
26 05 36 00-1943	EA	36"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	358.87 -21.60	171.41
26 05 36 00-1944	EA	36"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	360.07 -21.72	171.41
26 05 36 00-1945	EA	36"-24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	361.90 -21.87	171.83
26 05 36 00-1946 Dropout Or End Plate (26 05 36 00-1805)				
26 05 36 00-1947	EA	6" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	78.27	38.29
26 05 36 00-1948	EA	12" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	92.52	44.93
26 05 36 00-1949	EA	18" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	102.05	49.60
26 05 36 00-1950	EA	24" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	114.50	55.30
26 05 36 00-1951	EA	30" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	127.52	62.15
26 05 36 00-1952	EA	36" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	150.28	74.29
26 05 36 00-1953 Vented Bottom Aluminum Cable Tray (26 05 36 00-1797)				
26 05 36 00-1954	LF	6" Vented Bottom Aluminum Cable Tray, Straight Section	24.97	8.09
26 05 36 00-1955	LF	9" Vented Bottom Aluminum Cable Tray, Straight Section	27.61	8.93
26 05 36 00-1956	LF	12" Vented Bottom Aluminum Cable Tray, Straight Section	30.90	9.96



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1957 LF 18" Vented Bottom Aluminum Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 6", Deduct	35.71 -2.64	11.10
26 05 36 00-1958 LF 24" Vented Bottom Aluminum Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 6", Deduct	40.70 -3.04	12.35
26 05 36 00-1959 LF 30" Vented Bottom Aluminum Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 6", Deduct	50.81 -3.90	14.22
26 05 36 00-1960 LF 36" Vented Bottom Aluminum Cable Tray, Straight Section For 4-5/8" Overall Height Instead Of 6", Deduct	57.06 -4.32	16.71
26 05 36 00-1961 Vented Bottom Aluminum Cable Tray Fittings (26 05 36 00-1797)		
26 05 36 00-1962 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1963 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	293.41 -18.41	131.15
26 05 36 00-1964 EA 9" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	318.72 -20.01	142.35
26 05 36 00-1965 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	353.97 -22.04	160.31
26 05 36 00-1966 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	397.05 -24.90	177.64
26 05 36 00-1967 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	478.49 -29.79	216.76
26 05 36 00-1968 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	560.04 -35.22	249.44
26 05 36 00-1969 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	618.94 -38.82	276.94
26 05 36 00-1970 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1971 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	338.90 -22.37	138.21
26 05 36 00-1972 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	413.29 -27.01	171.83
26 05 36 00-1973 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	465.96 -30.62	191.64
26 05 36 00-1974 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	561.96 -36.45	236.88
26 05 36 00-1975 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	650.93 -42.10	276.00
26 05 36 00-1976 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	725.00 -46.56	311.28
26 05 36 00-1977 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1978 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	396.59 -27.48	146.09
26 05 36 00-1979 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	482.44 -32.86	184.59
26 05 36 00-1980 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	544.94 -37.18	207.83
26 05 36 00-1981 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	653.76 -43.54	261.99
26 05 36 00-1982 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	678.20 -46.66	253.89
26 05 36 00-1983 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	868.98 -57.29	355.38
26 05 36 00-1984 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1985 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	277.13 -16.78	131.25
26 05 36 00-1986 EA 9" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	301.03 -18.23	142.56
26 05 36 00-1987 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	334.87 -20.13	160.31
26 05 36 00-1988 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	374.51 -22.66	177.43
26 05 36 00-1989 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	452.19 -27.18	216.44
26 05 36 00-1990 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	528.29 -32.04	249.44
26 05 36 00-1991 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	583.49 -35.31	276.41
26 05 36 00-1992 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1993 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	315.22 -19.99	138.31
26 05 36 00-1994 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	385.35 -24.22	171.83
26 05 36 00-1995 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	434.13 -27.42	191.95

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1996 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	525.79	237.29
For 4-5/8" Overall Height Instead Of 6", Deduct	-32.81	
26 05 36 00-1997 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	610.56	276.94
For 4-5/8" Overall Height Instead Of 6", Deduct	-37.98	
26 05 36 00-1998 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	679.64	311.28
For 4-5/8" Overall Height Instead Of 6", Deduct	-42.02	
26 05 36 00-1999 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-2000 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	363.39	146.40
For 4-5/8" Overall Height Instead Of 6", Deduct	-24.14	
26 05 36 00-2001 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	443.27	184.17
For 4-5/8" Overall Height Instead Of 6", Deduct	-28.98	
26 05 36 00-2002 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	501.24	207.83
For 4-5/8" Overall Height Instead Of 6", Deduct	-32.81	
26 05 36 00-2003 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	606.73	262.51
For 4-5/8" Overall Height Instead Of 6", Deduct	-38.80	
26 05 36 00-2004 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	687.43	293.12
For 4-5/8" Overall Height Instead Of 6", Deduct	-44.32	
26 05 36 00-2005 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	809.45	356.10
For 4-5/8" Overall Height Instead Of 6", Deduct	-51.27	
26 05 36 00-2006 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1961)		
26 05 36 00-2007 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	309.14	130.73
For 4-5/8" Overall Height Instead Of 6", Deduct	-20.02	
26 05 36 00-2008 EA 9" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	333.26	142.04
For 4-5/8" Overall Height Instead Of 6", Deduct	-21.49	
26 05 36 00-2009 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	364.83	160.31
For 4-5/8" Overall Height Instead Of 6", Deduct	-23.13	
26 05 36 00-2010 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	397.05	177.64
For 4-5/8" Overall Height Instead Of 6", Deduct	-24.90	
26 05 36 00-2011 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	473.06	216.76
For 4-5/8" Overall Height Instead Of 6", Deduct	-29.24	
26 05 36 00-2012 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	532.91	249.44
For 4-5/8" Overall Height Instead Of 6", Deduct	-32.51	
26 05 36 00-2013 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray	579.04	276.41
For 4-5/8" Overall Height Instead Of 6", Deduct	-34.87	
26 05 36 00-2014 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1961)		
26 05 36 00-2015 EA 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray	353.01	138.21
For 4-5/8" Overall Height Instead Of 6", Deduct	-23.78	
26 05 36 00-2016 EA 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray	419.80	171.83
For 4-5/8" Overall Height Instead Of 6", Deduct	-27.66	
26 05 36 00-2017 EA 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray	464.88	191.64
For 4-5/8" Overall Height Instead Of 6", Deduct	-30.52	
26 05 36 00-2018 EA 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray	543.03	237.29
For 4-5/8" Overall Height Instead Of 6", Deduct	-34.53	
26 05 36 00-2019 EA 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray	615.94	276.41
For 4-5/8" Overall Height Instead Of 6", Deduct	-38.56	
26 05 36 00-2020 EA 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray	681.59	311.28
For 4-5/8" Overall Height Instead Of 6", Deduct	-42.22	
26 05 36 00-2021 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1961)		
26 05 36 00-2022 EA 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray	395.51	146.09
For 4-5/8" Overall Height Instead Of 6", Deduct	-27.37	
26 05 36 00-2023 EA 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray	470.50	184.59
For 4-5/8" Overall Height Instead Of 6", Deduct	-31.66	
26 05 36 00-2024 EA 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray	528.66	207.83
For 4-5/8" Overall Height Instead Of 6", Deduct	-35.55	
26 05 36 00-2025 EA 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray	634.22	261.99
For 4-5/8" Overall Height Instead Of 6", Deduct	-41.59	
26 05 36 00-2026 EA 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray	705.56	293.12
For 4-5/8" Overall Height Instead Of 6", Deduct	-46.13	
26 05 36 00-2027 EA 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray	815.80	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-51.97	
26 05 36 00-2028 12" Radius Horizontal Tees (26 05 36 00-1961)		
26 05 36 00-2029 EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray	528.98	249.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-32.15	
26 05 36 00-2030 EA 9" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray	553.91	261.99
For 4-5/8" Overall Height Instead Of 6", Deduct	-33.56	
26 05 36 00-2031 EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray	586.90	276.00
For 4-5/8" Overall Height Instead Of 6", Deduct	-35.69	
26 05 36 00-2032 EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray	667.44	311.90
For 4-5/8" Overall Height Instead Of 6", Deduct	-40.75	
26 05 36 00-2033 EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray	761.53	355.38
For 4-5/8" Overall Height Instead Of 6", Deduct	-46.54	
26 05 36 00-2034 EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray	872.97	415.03
For 4-5/8" Overall Height Instead Of 6", Deduct	-52.71	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 36 00-2035	EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	960.27		452.39	
		-58.32			
26 05 36 00-2036	24" Radius Horizontal Tees (26 05 36 00-1961)				
26 05 36 00-2037	EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	634.38		276.41	
		-40.40			
26 05 36 00-2038	EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	715.28		310.66	
		-45.64			
26 05 36 00-2039	EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	809.29		355.38	
		-51.32			
26 05 36 00-2040	EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	961.20		413.90	
		-61.63			
26 05 36 00-2041	EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,124.44		498.87	
		-70.87			
26 05 36 00-2042	EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,264.98		553.87	
		-80.34			
26 05 36 00-2043	36" Radius Horizontal Tees (26 05 36 00-1961)				
26 05 36 00-2044	EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	797.72		311.28	
		-53.83			
26 05 36 00-2045	EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	912.39		355.38	
		-61.63			
26 05 36 00-2046	EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	941.29		346.66	
		-65.24			
26 05 36 00-2047	EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,252.01		497.21	
		-83.76			
26 05 36 00-2048	EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,492.15		625.05	
		-97.13			
26 05 36 00-2049	EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,705.40		710.65	
		-111.32			
26 05 36 00-2050	12" Radius Vertical Tees (26 05 36 00-1961)				
26 05 36 00-2051	EA 6" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	571.31		249.03	
		-36.38			
26 05 36 00-2052	EA 9" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	594.07		261.99	
		-37.57			
26 05 36 00-2053	EA 12" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	630.04		276.41	
		-39.97			
26 05 36 00-2054	EA 18" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	658.89		293.12	
		-41.46			
26 05 36 00-2055	EA 24" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	692.49		310.66	
		-43.36			
26 05 36 00-2056	EA 30" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	735.42		331.82	
		-45.89			
26 05 36 00-2057	EA 36" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	827.26		382.35	
		-50.86			
26 05 36 00-2058	24" Radius Vertical Tees (26 05 36 00-1961)				
26 05 36 00-2059	EA 6" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	682.14		276.41	
		-45.18			
26 05 36 00-2060	EA 12" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	756.52		310.66	
		-49.76			
26 05 36 00-2061	EA 18" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	808.13		331.82	
		-53.16			
26 05 36 00-2062	EA 24" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	863.55		355.38	
		-56.74			
26 05 36 00-2063	EA 30" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	930.37		382.35	
		-61.17			
26 05 36 00-2064	EA 36" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,054.71		453.74	
		-67.66			
26 05 36 00-2065	36" Radius Vertical Tees (26 05 36 00-1961)				
26 05 36 00-2066	EA 6" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	859.62		310.66	
		-60.07			
26 05 36 00-2067	EA 12" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	955.80		355.38	
		-65.97			
26 05 36 00-2068	EA 18" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,011.76		382.35	
		-69.31			
26 05 36 00-2069	EA 24" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,095.13		416.17	
		-74.83			
26 05 36 00-2070	EA 30" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,190.37		453.74	
		-81.22			
26 05 36 00-2071	EA 36" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray..... For 4-5/8" Overall Height Instead Of 6", Deduct	1,375.67		551.90	
		-91.57			
26 05 36 00-2072	12" Radius Horizontal Crosses (26 05 36 00-1961)				

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2073	EA	6" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	602.91	276.41
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-37.25	
26 05 36 00-2074	EA	9" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	640.44	293.12
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-39.62	
26 05 36 00-2075	EA	12" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	676.12	311.90
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-41.62	
26 05 36 00-2076	EA	18" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	756.11	355.38
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-46.00	
26 05 36 00-2077	EA	24" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	872.21	413.90
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-52.73	
26 05 36 00-2078	EA	30" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	973.27	451.15
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-59.73	
26 05 36 00-2079	EA	36" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	1,190.10	553.87
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-72.85	
26 05 36 00-2080 24" Radius Horizontal Crosses (26 05 36 00-1961)				
26 05 36 00-2081	EA	6" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	774.88	311.90
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-51.50	
26 05 36 00-2082	EA	12" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	871.15	355.38
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-57.50	
26 05 36 00-2083	EA	18" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	990.50	413.90
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-64.56	
26 05 36 00-2084	EA	24" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,176.04	497.21
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-76.17	
26 05 36 00-2085	EA	30" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,294.27	551.90
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-83.43	
26 05 36 00-2086	EA	36" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,607.73	710.65
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-101.55	
26 05 36 00-2087 36" Radius Horizontal Crosses (26 05 36 00-1961)				
26 05 36 00-2088	EA	6" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,010.06	355.38
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-71.39	
26 05 36 00-2089	EA	12" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,138.54	416.17
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-79.18	
26 05 36 00-2090	EA	18" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,311.70	497.21
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-89.73	
26 05 36 00-2091	EA	24" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,600.68	625.05
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-107.98	
26 05 36 00-2092	EA	30" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,797.66	713.97
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-120.27	
26 05 36 00-2093	EA	36" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	2,085.21	827.89
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-139.53	
26 05 36 00-2094 Straight Reducers (26 05 36 00-1961)				
26 05 36 00-2095	EA	9"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	207.88	83.01
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-13.87	
26 05 36 00-2096	EA	12"-9" Reducer, Vented Bottom, Aluminum Cable Tray.....	218.44	87.47
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-14.56	
26 05 36 00-2097	EA	18"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	250.96	103.66
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-16.46	
26 05 36 00-2098	EA	24"-18" Reducer, Vented Bottom, Aluminum Cable Tray.....	280.83	118.39
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-18.22	
26 05 36 00-2099	EA	30"-24" Reducer, Vented Bottom, Aluminum Cable Tray.....	316.31	138.31
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-20.10	
26 05 36 00-2100	EA	36"-30" Reducer, Vented Bottom, Aluminum Cable Tray.....	347.87	155.33
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-21.84	
26 05 36 00-2101 Reducers (26 05 36 00-1961)				
26 05 36 00-2102	EA	12"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	218.19	87.27
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-14.55	
26 05 36 00-2103	EA	18"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	250.84	103.66
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-16.45	
26 05 36 00-2104	EA	18"-9" Reducer, Vented Bottom, Aluminum Cable Tray.....	250.84	103.66
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-16.45	
26 05 36 00-2105	EA	24"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	280.98	118.49
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-18.23	
26 05 36 00-2106	EA	24"-9" Reducer, Vented Bottom, Aluminum Cable Tray.....	280.98	118.49
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-18.23	
26 05 36 00-2107	EA	24"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	281.28	118.59
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-18.24	
26 05 36 00-2108	EA	30"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	318.28	138.21
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-20.31	
26 05 36 00-2109	EA	30"-18" Reducer, Vented Bottom, Aluminum Cable Tray.....	315.91	138.11
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-20.08	
26 05 36 00-2110	EA	36"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	347.87	155.33
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-21.84	
26 05 36 00-2111	EA	36"-18" Reducer, Vented Bottom, Aluminum Cable Tray.....	347.87	155.33
		<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-21.84	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2112	EA	36"-24" Reducer, Vented Bottom, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	348.38 -21.87	155.64
26 05 36 00-2113		Dropout Or End Plate (26 05 36 00-1961)		
26 05 36 00-2114	EA	6" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	78.03	38.29
26 05 36 00-2115	EA	9" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	85.13	41.81
26 05 36 00-2116	EA	12" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	91.64	44.93
26 05 36 00-2117	EA	18" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	102.91	49.60
26 05 36 00-2118	EA	24" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	116.66	55.30
26 05 36 00-2119	EA	30" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	129.69	62.15
26 05 36 00-2120	EA	36" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	148.46	71.18
26 05 36 00-2121		Covers And Dividers (26 05 36 00-0001)		
26 05 36 00-2122		Galvanized Steel Covers (26 05 36 00-2121)		
26 05 36 00-2123		Ventilated Straight Sections (26 05 36 00-2122)		
26 05 36 00-2124	LF	6" Steel Cable Tray Cover, Straight Section	6.95	1.86
26 05 36 00-2125	LF	9" Steel Cable Tray Cover, Straight Section	8.31	2.18
26 05 36 00-2126	LF	12" Steel Cable Tray Cover, Straight Section	9.72	2.49
26 05 36 00-2127	LF	18" Steel Cable Tray Cover, Straight Section	13.15	3.32
26 05 36 00-2128	LF	24" Steel Cable Tray Cover, Straight Section	16.84	4.46
26 05 36 00-2129	LF	30" Steel Cable Tray Cover, Straight Section	20.49	5.50
26 05 36 00-2130	LF	36" Steel Cable Tray Cover, Straight Section	116.87	62.36
26 05 36 00-2131		90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2132	EA	6" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	39.31	6.64
26 05 36 00-2133	EA	9" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	44.17	7.78
26 05 36 00-2134	EA	12" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	48.32	9.24
26 05 36 00-2135	EA	18" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	65.30	11.83
26 05 36 00-2136	EA	24" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	80.32	15.05
26 05 36 00-2137	EA	30" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	96.15	16.71
26 05 36 00-2138	EA	36" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover	116.03	19.93
26 05 36 00-2139		90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2140	EA	6" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	59.02	7.36
26 05 36 00-2141	EA	9" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	62.31	8.62
26 05 36 00-2142	EA	12" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	70.73	10.38
26 05 36 00-2143	EA	18" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	87.88	13.17
26 05 36 00-2144	EA	24" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	108.10	16.60
26 05 36 00-2145	EA	30" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	137.50	19.09
26 05 36 00-2146	EA	36" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover	160.16	22.62
26 05 36 00-2147		90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2148	EA	6" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	82.15	8.30
26 05 36 00-2149	EA	9" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	91.57	9.55
26 05 36 00-2150	EA	12" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	100.14	11.83
26 05 36 00-2151	EA	18" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	126.25	13.80
26 05 36 00-2152	EA	24" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	154.31	19.19
26 05 36 00-2153	EA	30" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	181.28	21.69
26 05 36 00-2154	EA	36" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover	211.81	24.90
26 05 36 00-2155		45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2156	EA	6" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	31.16	6.64
		<i>For 60 Degree Bend, Deduct</i>	-7.73	
		<i>For 30 Degree Bend, Deduct</i>	-13.25	
26 05 36 00-2157	EA	9" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	36.97	7.78
		<i>For 60 Degree Bend, Deduct</i>	-9.22	
		<i>For 30 Degree Bend, Deduct</i>	-15.79	
26 05 36 00-2158	EA	12" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	41.72	9.24
		<i>For 60 Degree Bend, Deduct</i>	-10.24	
		<i>For 30 Degree Bend, Deduct</i>	-17.58	
26 05 36 00-2159	EA	18" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	50.64	11.31
		<i>For 60 Degree Bend, Deduct</i>	-12.38	
		<i>For 30 Degree Bend, Deduct</i>	-21.26	
26 05 36 00-2160	EA	24" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	59.08	13.07
		<i>For 60 Degree Bend, Deduct</i>	-14.46	
		<i>For 30 Degree Bend, Deduct</i>	-24.84	
26 05 36 00-2161	EA	30" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	68.94	15.05
		<i>For 60 Degree Bend, Deduct</i>	-16.97	
		<i>For 30 Degree Bend, Deduct</i>	-29.11	
26 05 36 00-2162	EA	36" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover	76.87	16.60
		<i>For 60 Degree Bend, Deduct</i>	-19.00	
		<i>For 30 Degree Bend, Deduct</i>	-32.59	

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2163 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2164 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	41.64	7.36
For 60 Degree Bend, Deduct	-10.93	
For 30 Degree Bend, Deduct	-18.62	
26 05 36 00-2165 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	47.32	8.62
For 60 Degree Bend, Deduct	-12.32	
For 30 Degree Bend, Deduct	-21.01	
26 05 36 00-2166 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	54.54	10.38
For 60 Degree Bend, Deduct	-14.01	
For 30 Degree Bend, Deduct	-23.93	
26 05 36 00-2167 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	63.39	12.45
For 60 Degree Bend, Deduct	-16.14	
For 30 Degree Bend, Deduct	-27.59	
26 05 36 00-2168 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	72.95	14.22
For 60 Degree Bend, Deduct	-18.61	
For 30 Degree Bend, Deduct	-31.81	
26 05 36 00-2169 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	90.13	16.60
For 60 Degree Bend, Deduct	-23.36	
For 30 Degree Bend, Deduct	-39.86	
26 05 36 00-2170 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	100.35	19.19
For 60 Degree Bend, Deduct	-25.76	
For 30 Degree Bend, Deduct	-44.01	
26 05 36 00-2171 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2122)		
26 05 36 00-2172 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	56.39	8.30
For 60 Degree Bend, Deduct	-15.44	
For 30 Degree Bend, Deduct	-26.19	
26 05 36 00-2173 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	63.97	9.55
For 60 Degree Bend, Deduct	-17.43	
For 30 Degree Bend, Deduct	-29.59	
26 05 36 00-2174 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	72.48	11.83
For 60 Degree Bend, Deduct	-19.39	
For 30 Degree Bend, Deduct	-32.97	
26 05 36 00-2175 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	82.51	13.17
For 60 Degree Bend, Deduct	-22.19	
For 30 Degree Bend, Deduct	-37.71	
26 05 36 00-2176 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	100.59	16.08
For 60 Degree Bend, Deduct	-27.03	
For 30 Degree Bend, Deduct	-45.94	
26 05 36 00-2177 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	112.35	19.19
For 60 Degree Bend, Deduct	-29.72	
For 30 Degree Bend, Deduct	-50.61	
26 05 36 00-2178 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	131.80	20.75
For 60 Degree Bend, Deduct	-35.53	
For 30 Degree Bend, Deduct	-60.38	
26 05 36 00-2179 90 Degree, 12" Radius Vertical Risers (26 05 36 00-2122)		
26 05 36 00-2180 EA 6" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	34.60	6.64
26 05 36 00-2181 EA 9" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	36.97	7.78
26 05 36 00-2182 EA 12" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	41.12	9.24
26 05 36 00-2183 EA 18" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	48.27	11.31
26 05 36 00-2184 EA 24" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	54.40	14.63
26 05 36 00-2185 EA 30" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	60.76	16.71
26 05 36 00-2186 EA 36" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	75.77	19.93
26 05 36 00-2187 90 Degree, 24" Radius Vertical Risers (26 05 36 00-2122)		
26 05 36 00-2188 EA 6" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	41.03	7.36
26 05 36 00-2189 EA 9" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	46.12	8.62
26 05 36 00-2190 EA 12" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	50.34	10.38
26 05 36 00-2191 EA 18" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	64.54	12.45
26 05 36 00-2192 EA 24" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	75.96	16.08
26 05 36 00-2193 EA 30" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	87.71	19.19
26 05 36 00-2194 EA 36" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	101.36	22.62
26 05 36 00-2195 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2122)		
26 05 36 00-2196 EA 6" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	47.36	8.30
26 05 36 00-2197 EA 9" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	58.58	9.55
26 05 36 00-2198 EA 12" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	67.74	11.83
26 05 36 00-2199 EA 18" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	82.51	13.17
26 05 36 00-2200 EA 24" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	97.86	18.36
26 05 36 00-2201 EA 30" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	116.49	21.69
26 05 36 00-2202 EA 36" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	136.22	24.90
26 05 36 00-2203 12" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2204 EA 6" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	60.65	10.79
26 05 36 00-2205 EA 9" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	64.54	12.45
26 05 36 00-2206 EA 12" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	73.52	14.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2207 EA 18" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	87.73	16.60
26 05 36 00-2208 EA 24" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	107.55	19.19
26 05 36 00-2209 EA 30" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	134.82	27.60
26 05 36 00-2210 EA 36" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	162.01	33.10
26 05 36 00-2211 24" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2212 EA 6" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	86.06	11.31
26 05 36 00-2213 EA 9" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	98.70	13.17
26 05 36 00-2214 EA 12" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	105.10	15.57
26 05 36 00-2215 EA 18" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	131.66	17.84
26 05 36 00-2216 EA 24" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	190.48	20.75
26 05 36 00-2217 EA 30" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	229.50	31.13
26 05 36 00-2218 EA 36" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	259.39	38.29
26 05 36 00-2219 36" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2220 EA 6" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	140.91	11.83
26 05 36 00-2221 EA 9" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	146.62	13.80
26 05 36 00-2222 EA 12" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	164.48	16.60
26 05 36 00-2223 EA 18" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	192.79	19.19
26 05 36 00-2224 EA 24" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	248.95	22.62
26 05 36 00-2225 EA 30" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	288.61	35.69
26 05 36 00-2226 EA 36" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	335.60	45.13
26 05 36 00-2227 12" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2228 EA 6" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	87.97	14.63
26 05 36 00-2229 EA 9" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	93.13	15.57
26 05 36 00-2230 EA 12" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	102.73	16.60
26 05 36 00-2231 EA 18" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	120.75	19.19
26 05 36 00-2232 EA 24" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	153.98	27.60
26 05 36 00-2233 EA 30" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	178.75	33.10
26 05 36 00-2234 EA 36" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	203.23	35.59
26 05 36 00-2235 24" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2236 EA 6" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	147.16	15.57
26 05 36 00-2237 EA 9" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	159.69	16.60
26 05 36 00-2238 EA 12" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	171.25	17.84
26 05 36 00-2239 EA 18" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	203.68	20.75
26 05 36 00-2240 EA 24" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	258.26	31.13
26 05 36 00-2241 EA 30" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	296.50	38.29
26 05 36 00-2242 EA 36" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	330.59	41.40
26 05 36 00-2243 36" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2244 EA 6" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	230.48	16.60
26 05 36 00-2245 EA 9" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	239.65	17.84
26 05 36 00-2246 EA 12" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	252.78	19.19
26 05 36 00-2247 EA 18" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	292.14	22.62
26 05 36 00-2248 EA 24" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	383.36	35.59
26 05 36 00-2249 EA 30" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	423.52	45.34
26 05 36 00-2250 EA 36" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	454.97	49.81
26 05 36 00-2251 Reducers (26 05 36 00-2122)		
26 05 36 00-2252 EA 9"-6" Reducer, Steel Cable Tray Covers.....	39.97	7.78
26 05 36 00-2253 EA 12"-6" Reducer, Steel Cable Tray Covers.....	43.56	9.24
26 05 36 00-2254 EA 12"-9" Reducer, Steel Cable Tray Covers.....	43.56	9.24
26 05 36 00-2255 EA 18"-6" Reducer, Steel Cable Tray Covers.....	48.86	11.31
26 05 36 00-2256 EA 18"-12" Reducer, Steel Cable Tray Covers.....	48.86	11.31
26 05 36 00-2257 EA 24"-12" Reducer, Steel Cable Tray Covers.....	59.15	12.45
26 05 36 00-2258 EA 24"-18" Reducer, Steel Cable Tray Covers.....	62.75	12.45
26 05 36 00-2259 EA 30"-12" Reducer, Steel Cable Tray Covers.....	62.13	14.22
26 05 36 00-2260 EA 30"-18" Reducer, Steel Cable Tray Covers.....	65.73	14.22
26 05 36 00-2261 EA 30"-24" Reducer, Steel Cable Tray Covers.....	68.12	14.22
26 05 36 00-2262 EA 36"-12" Reducer, Steel Cable Tray Covers.....	71.48	15.57
26 05 36 00-2263 EA 36"-18" Reducer, Steel Cable Tray Covers.....	72.68	15.57
26 05 36 00-2264 EA 36"-24" Reducer, Steel Cable Tray Covers.....	73.88	15.57
26 05 36 00-2265 EA 36"-30" Reducer, Steel Cable Tray Covers.....	74.48	15.57
26 05 36 00-2266 Aluminum Covers (26 05 36 00-2121)		
26 05 36 00-2267 Ventilated Straight Sections (26 05 36 00-2266)		
26 05 36 00-2268 LF 6" Aluminum Cable Tray Cover, Straight Section	6.48	1.86
26 05 36 00-2269 LF 9" Aluminum Cable Tray Cover, Straight Section	7.65	2.18
26 05 36 00-2270 LF 12" Aluminum Cable Tray Cover, Straight Section	8.92	2.49
26 05 36 00-2271 LF 18" Aluminum Cable Tray Cover, Straight Section	11.88	3.32

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2272 LF 24" Aluminum Cable Tray Cover, Straight Section	15.46	4.46
26 05 36 00-2273 LF 30" Aluminum Cable Tray Cover, Straight Section	17.95	5.50
26 05 36 00-2274 LF 36" Aluminum Cable Tray Cover, Straight Section	113.25	62.36
26 05 36 00-2275 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2276 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	36.07	6.64
26 05 36 00-2277 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	39.02	7.78
26 05 36 00-2278 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	43.54	9.24
26 05 36 00-2279 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	56.61	11.83
26 05 36 00-2280 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	71.80	15.05
26 05 36 00-2281 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	83.65	16.71
26 05 36 00-2282 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	101.61	19.93
26 05 36 00-2283 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2284 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	46.42	7.36
26 05 36 00-2285 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	56.65	8.62
26 05 36 00-2286 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	64.01	10.38
26 05 36 00-2287 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	77.24	13.17
26 05 36 00-2288 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	96.08	16.60
26 05 36 00-2289 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	115.48	19.09
26 05 36 00-2290 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	140.87	22.62
26 05 36 00-2291 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2292 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	72.37	8.30
26 05 36 00-2293 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	80.01	9.55
26 05 36 00-2294 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	92.46	11.83
26 05 36 00-2295 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	109.88	13.80
26 05 36 00-2296 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	137.19	19.19
26 05 36 00-2297 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	157.65	21.69
26 05 36 00-2298 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover	183.60	24.90
26 05 36 00-2299 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2300 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	29.57	6.64
For 60 Degree Bend, Deduct	-7.20	
For 30 Degree Bend, Deduct	-12.37	
26 05 36 00-2301 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	31.96	7.78
For 60 Degree Bend, Deduct	-7.56	
For 30 Degree Bend, Deduct	-13.04	
26 05 36 00-2302 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	36.59	9.24
For 60 Degree Bend, Deduct	-8.55	
For 30 Degree Bend, Deduct	-14.76	
26 05 36 00-2303 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	43.26	11.31
For 60 Degree Bend, Deduct	-9.94	
For 30 Degree Bend, Deduct	-17.20	
26 05 36 00-2304 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	49.01	13.07
For 60 Degree Bend, Deduct	-11.14	
For 30 Degree Bend, Deduct	-19.30	
26 05 36 00-2305 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	59.34	15.05
For 60 Degree Bend, Deduct	-13.80	
For 30 Degree Bend, Deduct	-23.83	
26 05 36 00-2306 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover	68.92	16.60
For 60 Degree Bend, Deduct	-16.38	
For 30 Degree Bend, Deduct	-28.22	
26 05 36 00-2307 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2308 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	33.67	7.36
For 60 Degree Bend, Deduct	-8.30	
For 30 Degree Bend, Deduct	-14.23	
26 05 36 00-2309 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	41.45	8.62
For 60 Degree Bend, Deduct	-10.38	
For 30 Degree Bend, Deduct	-17.79	
26 05 36 00-2310 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	45.56	10.38
For 60 Degree Bend, Deduct	-11.05	
For 30 Degree Bend, Deduct	-18.99	
26 05 36 00-2311 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	54.98	12.45
For 60 Degree Bend, Deduct	-13.36	
For 30 Degree Bend, Deduct	-22.96	
26 05 36 00-2312 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	66.09	14.22
For 60 Degree Bend, Deduct	-16.34	
For 30 Degree Bend, Deduct	-28.03	
26 05 36 00-2313 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	76.58	16.60
For 60 Degree Bend, Deduct	-18.89	
For 30 Degree Bend, Deduct	-32.41	
26 05 36 00-2314 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover	88.39	19.19
For 60 Degree Bend, Deduct	-21.82	
For 30 Degree Bend, Deduct	-37.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2315 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-2266)		
26 05 36 00-2316 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	50.69	8.30
For 60 Degree Bend, Deduct	-13.56	
For 30 Degree Bend, Deduct	-23.05	
26 05 36 00-2317 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	56.14	9.55
For 60 Degree Bend, Deduct	-14.85	
For 30 Degree Bend, Deduct	-25.28	
26 05 36 00-2318 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	62.02	11.83
For 60 Degree Bend, Deduct	-15.94	
For 30 Degree Bend, Deduct	-27.22	
26 05 36 00-2319 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	72.93	13.17
For 60 Degree Bend, Deduct	-19.03	
For 30 Degree Bend, Deduct	-32.44	
26 05 36 00-2320 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	88.66	16.08
For 60 Degree Bend, Deduct	-23.09	
For 30 Degree Bend, Deduct	-39.38	
26 05 36 00-2321 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	102.50	19.19
For 60 Degree Bend, Deduct	-26.47	
For 30 Degree Bend, Deduct	-45.19	
26 05 36 00-2322 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	114.92	20.75
For 60 Degree Bend, Deduct	-29.96	
For 30 Degree Bend, Deduct	-51.09	
26 05 36 00-2323 90 Degree, 12" Radius Vertical Risers (26 05 36 00-2266)		
26 05 36 00-2324 EA 6" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	32.35	6.64
26 05 36 00-2325 EA 9" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	34.40	7.78
26 05 36 00-2326 EA 12" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	38.65	9.24
26 05 36 00-2327 EA 18" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	46.00	11.31
26 05 36 00-2328 EA 24" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	52.62	14.63
26 05 36 00-2329 EA 30" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	56.52	16.71
26 05 36 00-2330 EA 36" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover	67.90	19.93
26 05 36 00-2331 90 Degree, 24" Radius Vertical Risers (26 05 36 00-2266)		
26 05 36 00-2332 EA 6" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	36.65	7.36
26 05 36 00-2333 EA 9" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	40.91	8.62
26 05 36 00-2334 EA 12" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	46.10	10.38
26 05 36 00-2335 EA 18" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	55.48	12.45
26 05 36 00-2336 EA 24" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	64.75	16.08
26 05 36 00-2337 EA 30" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	80.76	19.19
26 05 36 00-2338 EA 36" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover	90.95	22.62
26 05 36 00-2339 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2266)		
26 05 36 00-2340 EA 6" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	41.98	8.30
26 05 36 00-2341 EA 9" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	50.71	9.55
26 05 36 00-2342 EA 12" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	59.91	11.83
26 05 36 00-2343 EA 18" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	70.76	13.17
26 05 36 00-2344 EA 24" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	88.19	18.36
26 05 36 00-2345 EA 30" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	108.81	21.69
26 05 36 00-2346 EA 36" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover	119.57	24.90
26 05 36 00-2347 12" Radius Horizontal Tees (26 05 36 00-2266)		
26 05 36 00-2348 EA 6" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	52.78	10.79
26 05 36 00-2349 EA 9" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover	57.65	12.45
26 05 36 00-2350 EA 12" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover	65.57	14.63
26 05 36 00-2351 EA 18" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	76.58	16.60
26 05 36 00-2352 EA 24" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover	93.82	19.19
26 05 36 00-2353 EA 30" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover	118.74	27.60
26 05 36 00-2354 EA 36" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover	143.13	33.10
26 05 36 00-2355 24" Radius Horizontal Tees (26 05 36 00-2266)		
26 05 36 00-2356 EA 6" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	75.30	11.31
26 05 36 00-2357 EA 9" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	84.86	13.17
26 05 36 00-2358 EA 12" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	96.45	15.57
26 05 36 00-2359 EA 18" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	112.15	17.84
26 05 36 00-2360 EA 24" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	165.82	20.75
26 05 36 00-2361 EA 30" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	197.35	31.13
26 05 36 00-2362 EA 36" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover	225.52	38.29
26 05 36 00-2363 36" Radius Horizontal Tees (26 05 36 00-2266)		
26 05 36 00-2364 EA 6" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	122.82	11.83
26 05 36 00-2365 EA 9" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	128.30	13.80
26 05 36 00-2366 EA 12" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	143.82	16.60
26 05 36 00-2367 EA 18" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	163.33	19.19
26 05 36 00-2368 EA 24" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	204.90	22.62

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2369 EA 30" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	247.19	35.69
26 05 36 00-2370 EA 36" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover	286.86	45.13
26 05 36 00-2371 12" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2372 EA 6" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	77.56	14.63
26 05 36 00-2373 EA 9" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	82.37	15.57
26 05 36 00-2374 EA 12" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	90.69	16.60
26 05 36 00-2375 EA 18" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	107.93	19.19
26 05 36 00-2376 EA 24" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	133.90	27.60
26 05 36 00-2377 EA 30" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	159.35	33.10
26 05 36 00-2378 EA 36" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover	179.72	35.59
26 05 36 00-2379 24" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2380 EA 6" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	130.16	15.57
26 05 36 00-2381 EA 9" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	139.49	16.60
26 05 36 00-2382 EA 12" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	150.14	17.84
26 05 36 00-2383 EA 18" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	174.50	20.75
26 05 36 00-2384 EA 24" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	219.01	31.13
26 05 36 00-2385 EA 30" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	259.08	38.29
26 05 36 00-2386 EA 36" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover	280.65	41.40
26 05 36 00-2387 36" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2388 EA 6" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	194.83	16.60
26 05 36 00-2389 EA 9" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	204.40	17.84
26 05 36 00-2390 EA 12" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	219.76	19.19
26 05 36 00-2391 EA 18" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	243.97	22.62
26 05 36 00-2392 EA 24" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	314.44	35.59
26 05 36 00-2393 EA 30" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	368.59	45.34
26 05 36 00-2394 EA 36" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover	403.17	49.81
26 05 36 00-2395 Reducers (26 05 36 00-2266)		
26 05 36 00-2396 EA 9"-6" Reducer, Aluminum Cable Tray Covers	39.56	7.78
26 05 36 00-2397 EA 12"-6" Reducer, Aluminum Cable Tray Covers	43.03	9.24
26 05 36 00-2398 EA 12"-9" Reducer, Aluminum Cable Tray Covers	43.03	9.24
26 05 36 00-2399 EA 18"-6" Reducer, Aluminum Cable Tray Covers	49.25	11.31
26 05 36 00-2400 EA 18"-12" Reducer, Aluminum Cable Tray Covers	49.25	11.31
26 05 36 00-2401 EA 24"-12" Reducer, Aluminum Cable Tray Covers	54.40	12.45
26 05 36 00-2402 EA 24"-18" Reducer, Aluminum Cable Tray Covers	58.70	12.45
26 05 36 00-2403 EA 30"-12" Reducer, Aluminum Cable Tray Covers	62.80	14.22
26 05 36 00-2404 EA 30"-18" Reducer, Aluminum Cable Tray Covers	64.41	14.22
26 05 36 00-2405 EA 30"-24" Reducer, Aluminum Cable Tray Covers	65.54	14.22
26 05 36 00-2406 EA 36"-12" Reducer, Aluminum Cable Tray Covers	69.30	15.57
26 05 36 00-2407 EA 36"-18" Reducer, Aluminum Cable Tray Covers	70.39	15.57
26 05 36 00-2408 EA 36"-24" Reducer, Aluminum Cable Tray Covers	70.93	15.57
26 05 36 00-2409 EA 36"-30" Reducer, Aluminum Cable Tray Covers	71.47	15.57
26 05 36 00-2410 Galvanized Steel Dividers (26 05 36 00-2121)		
26 05 36 00-2411 Straight Dividers (26 05 36 00-2410)		
26 05 36 00-2412 LF 3" Deep Galvanized Steel Divider Strip, Straight	7.45	2.49
26 05 36 00-2413 LF 4" Deep Galvanized Steel Divider Strip, Straight	8.66	2.69
26 05 36 00-2414 LF 6" Deep Galvanized Steel Divider Strip, Straight	10.53	3.12
26 05 36 00-2415 3" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2416 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Steel Cable Tray	45.87	17.84
26 05 36 00-2417 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Steel Cable Tray	51.05	18.47
26 05 36 00-2418 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Steel Cable Tray	53.56	19.19
26 05 36 00-2419 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Steel Cable Tray	60.20	19.93
26 05 36 00-2420 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Steel Cable Tray	57.80	19.93
26 05 36 00-2421 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Steel Cable Tray	62.15	20.75
26 05 36 00-2422 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Steel Cable Tray	70.90	21.69
26 05 36 00-2423 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Steel Cable Tray	85.16	22.62
26 05 36 00-2424 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Steel Cable Tray	70.77	22.62
26 05 36 00-2425 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Steel Cable Tray	77.93	23.76
26 05 36 00-2426 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Steel Cable Tray	86.49	24.90
26 05 36 00-2427 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Steel Cable Tray	106.08	26.25
26 05 36 00-2428 4" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2429 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Steel Cable Tray	51.35	18.47
26 05 36 00-2430 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Steel Cable Tray	55.96	19.19
26 05 36 00-2431 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Steel Cable Tray	60.20	19.93
26 05 36 00-2432 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Steel Cable Tray	67.55	20.75
26 05 36 00-2433 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Steel Cable Tray	67.55	20.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2434 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Steel Cable Tray	77.50	21.69
26 05 36 00-2435 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Steel Cable Tray	84.56	22.62
26 05 36 00-2436 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Steel Cable Tray	101.92	23.76
26 05 36 00-2437 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Steel Cable Tray	74.50	21.69
26 05 36 00-2438 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Steel Cable Tray	81.56	22.62
26 05 36 00-2439 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Steel Cable Tray	94.72	23.76
26 05 36 00-2440 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Steel Cable Tray	116.49	24.90
26 05 36 00-2441 6" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2442 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Steel Cable Tray	57.05	20.75
26 05 36 00-2443 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Steel Cable Tray	61.30	21.69
26 05 36 00-2444 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Steel Cable Tray	66.57	22.62
26 05 36 00-2445 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Steel Cable Tray	75.53	23.76
26 05 36 00-2446 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Steel Cable Tray	69.10	21.69
26 05 36 00-2447 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Steel Cable Tray	79.17	22.62
26 05 36 00-2448 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Steel Cable Tray	86.92	23.76
26 05 36 00-2449 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Steel Cable Tray	103.89	24.90
26 05 36 00-2450 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Steel Cable Tray	76.17	22.62
26 05 36 00-2451 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Steel Cable Tray	86.92	23.76
26 05 36 00-2452 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Steel Cable Tray	103.89	24.90
26 05 36 00-2453 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Steel Cable Tray	124.08	26.25
26 05 36 00-2454 Horizontal Dividers (26 05 36 00-2410)		
26 05 36 00-2455 EA 3" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	48.20	15.05
26 05 36 00-2456 EA 4" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	53.51	16.60
26 05 36 00-2457 EA 6" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	63.71	18.47
26 05 36 00-2458 Aluminum Dividers (26 05 36 00-2121)		
26 05 36 00-2459 Straight Dividers (26 05 36 00-2458)		
26 05 36 00-2460 LF 3" Deep Aluminum Divider Strip, Straight	6.93	2.38
26 05 36 00-2461 LF 4" Deep Aluminum Divider Strip, Straight	8.05	2.59
26 05 36 00-2462 LF 6" Deep Aluminum Divider Strip, Straight	9.71	2.91
26 05 36 00-2463 3" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2464 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	41.07	17.22
26 05 36 00-2465 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	44.32	17.84
26 05 36 00-2466 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	47.86	18.47
26 05 36 00-2467 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	53.67	19.19
26 05 36 00-2468 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	52.58	19.19
26 05 36 00-2469 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	57.08	19.93
26 05 36 00-2470 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	64.40	20.75
26 05 36 00-2471 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	76.80	21.69
26 05 36 00-2472 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	67.57	21.69
26 05 36 00-2473 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	78.47	22.62
26 05 36 00-2474 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	92.17	23.76
26 05 36 00-2475 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray	110.42	24.90
26 05 36 00-2476 4" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2477 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	47.20	17.84
26 05 36 00-2478 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	51.06	18.47
26 05 36 00-2479 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	55.29	19.19
26 05 36 00-2480 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	60.87	19.93
26 05 36 00-2481 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	60.33	19.93
26 05 36 00-2482 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	68.19	20.75
26 05 36 00-2483 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	75.71	21.69
26 05 36 00-2484 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	92.03	22.62
26 05 36 00-2485 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	76.88	20.75
26 05 36 00-2486 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	90.36	21.69
26 05 36 00-2487 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	103.97	22.62
26 05 36 00-2488 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray	123.10	23.76
26 05 36 00-2489 6" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2490 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	52.41	19.93
26 05 36 00-2491 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	57.34	20.75
26 05 36 00-2492 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	59.98	21.69
26 05 36 00-2493 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	65.99	22.62
26 05 36 00-2494 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	62.77	20.75
26 05 36 00-2495 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	74.63	21.69
26 05 36 00-2496 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	80.10	22.62
26 05 36 00-2497 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	97.05	23.76
26 05 36 00-2498 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	78.97	21.69
26 05 36 00-2499 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	95.29	22.62
26 05 36 00-2500 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	107.36	23.76

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2501 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	122.90	24.90
26 05 36 00-2502 Horizontal Dividers (26 05 36 00-2458)		
26 05 36 00-2503 EA 3" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	43.51	14.22
26 05 36 00-2504 EA 4" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	47.65	15.57
26 05 36 00-2505 EA 6" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	57.40	17.22
26 05 36 00-2506 Wall Brackets (26 05 36 00-0001)		
26 05 36 00-2507 Wall Brackets (26 05 36 00-2506)		
26 05 36 00-2508 EA 6" Wide Tray Wall Bracket	46.97	20.75
26 05 36 00-2509 EA 9" Wide Tray Wall Bracket	48.88	21.69
26 05 36 00-2510 EA 12" Wide Tray Wall Bracket	52.32	22.62
26 05 36 00-2511 EA 18" Wide Tray Wall Bracket	55.15	23.76
26 05 36 00-2512 EA 24" Wide Tray Wall Bracket	58.89	24.90
26 05 36 00-2513 EA 30" Wide Tray Wall Bracket	66.04	26.25
26 05 36 00-2514 EA 36" Wide Tray Wall Bracket	75.08	28.01
26 05 36 00-2515 Fiberglass Cable Tray (26 05 36 00-0001)		
26 05 36 00-2516 Ladder Bottom Fiberglass Cable Tray (26 05 36 00-2515)		
Note: Excludes hangers and support system.		
26 05 36 00-2517 Straight Tray Sections (26 05 36 00-2516)		
26 05 36 00-2518 LF 6" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	9.43	2.80
For 9" Rung Spacing, Add	0.18	
For 6" Rung Spacing, Add	0.79	
For 4" Rung Spacing, Add	1.45	
For 18" Rung Spacing, Deduct	-0.13	
For Solid Bottom, Add	2.21	
For Vented Trough Bottom, Add	2.63	
26 05 36 00-2519 LF 9" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	10.64	3.43
For 9" Rung Spacing, Add	0.19	
For 6" Rung Spacing, Add	0.82	
For 4" Rung Spacing, Add	1.50	
For 18" Rung Spacing, Deduct	-0.14	
For Solid Bottom, Add	2.41	
For Vented Trough Bottom, Add	2.83	
26 05 36 00-2520 LF 12" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	11.82	4.15
For 9" Rung Spacing, Add	0.20	
For 6" Rung Spacing, Add	0.84	
For 4" Rung Spacing, Add	1.54	
For 18" Rung Spacing, Deduct	-0.14	
For Solid Bottom, Add	2.61	
For Vented Trough Bottom, Add	3.02	
26 05 36 00-2521 LF 18" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	14.33	5.50
For 9" Rung Spacing, Add	0.21	
For 6" Rung Spacing, Add	0.90	
For 4" Rung Spacing, Add	1.66	
For 18" Rung Spacing, Deduct	-0.15	
For Solid Bottom, Add	3.05	
For Vented Trough Bottom, Add	3.45	
26 05 36 00-2522 LF 24" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	16.81	6.95
For 9" Rung Spacing, Add	0.23	
For 6" Rung Spacing, Add	0.96	
For 4" Rung Spacing, Add	1.77	
For 18" Rung Spacing, Deduct	-0.16	
For Solid Bottom, Add	3.49	
For Vented Trough Bottom, Add	3.87	
26 05 36 00-2523 LF 30" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	18.39	7.57
For 9" Rung Spacing, Add	0.24	
For 6" Rung Spacing, Add	1.05	
For 4" Rung Spacing, Add	1.92	
For 18" Rung Spacing, Deduct	-0.17	
For Solid Bottom, Add	3.81	
For Vented Trough Bottom, Add	4.22	
26 05 36 00-2524 LF 36" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing.....	20.00	8.30
For 9" Rung Spacing, Add	0.26	
For 6" Rung Spacing, Add	1.13	
For 4" Rung Spacing, Add	2.08	
For 18" Rung Spacing, Deduct	-0.19	
For Solid Bottom, Add	4.13	
For Vented Trough Bottom, Add	4.58	

26 05 36 00-2525 90 Degree Horizontal Elbows (26 05 36 00-2516)



Electrical		26
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 36 00-2526	EA 6" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	52.49		20.75
	For 9" Rung Spacing, Add	0.75		
	For 6" Rung Spacing, Add	3.20		
	For 4" Rung Spacing, Add	5.87		
	For 18" Rung Spacing, Deduct	-0.53		
	For Solid Bottom, Add	11.08		
	For Vented Trough Bottom, Add	12.44		
	For 60 Degree Bend, Deduct	-10.16		
	For 45 Degree Bend, Deduct	-14.07		
	For 30 Degree Bend, Deduct	-17.97		
26 05 36 00-2527	EA 9" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	58.89		24.17
	For 9" Rung Spacing, Add	0.79		
	For 6" Rung Spacing, Add	3.39		
	For 4" Rung Spacing, Add	6.21		
	For 18" Rung Spacing, Deduct	-0.56		
	For Solid Bottom, Add	12.22		
	For Vented Trough Bottom, Add	13.57		
	For 60 Degree Bend, Deduct	-11.08		
	For 45 Degree Bend, Deduct	-15.38		
	For 30 Degree Bend, Deduct	-19.68		
26 05 36 00-2528	EA 12" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	69.45		30.40
	For 9" Rung Spacing, Add	0.83		
	For 6" Rung Spacing, Add	3.57		
	For 4" Rung Spacing, Add	6.55		
	For 18" Rung Spacing, Deduct	-0.60		
	For Solid Bottom, Add	13.99		
	For Vented Trough Bottom, Add	15.23		
	For 60 Degree Bend, Deduct	-12.42		
	For 45 Degree Bend, Deduct	-17.32		
	For 30 Degree Bend, Deduct	-22.22		
26 05 36 00-2529	EA 18" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	82.33		36.74
	For 9" Rung Spacing, Add	0.96		
	For 6" Rung Spacing, Add	4.10		
	For 4" Rung Spacing, Add	7.52		
	For 18" Rung Spacing, Deduct	-0.68		
	For Solid Bottom, Add	16.45		
	For Vented Trough Bottom, Add	17.81		
	For 60 Degree Bend, Deduct	-14.52		
	For 45 Degree Bend, Deduct	-20.28		
	For 30 Degree Bend, Deduct	-26.04		
26 05 36 00-2530	EA 24" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	93.35		42.23
	For 9" Rung Spacing, Add	1.05		
	For 6" Rung Spacing, Add	4.51		
	For 4" Rung Spacing, Add	8.27		
	For 18" Rung Spacing, Deduct	-0.75		
	For Solid Bottom, Add	18.51		
	For Vented Trough Bottom, Add	19.94		
	For 60 Degree Bend, Deduct	-16.25		
	For 45 Degree Bend, Deduct	-22.72		
	For 30 Degree Bend, Deduct	-29.19		
26 05 36 00-2531	EA 30" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	101.99		45.03
	For 9" Rung Spacing, Add	1.21		
	For 6" Rung Spacing, Add	5.18		
	For 4" Rung Spacing, Add	9.50		
	For 18" Rung Spacing, Deduct	-0.86		
	For Solid Bottom, Add	20.48		
	For Vented Trough Bottom, Add	22.25		
	For 60 Degree Bend, Deduct	-18.15		
	For 45 Degree Bend, Deduct	-25.32		
	For 30 Degree Bend, Deduct	-32.49		
26 05 36 00-2532	EA 36" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	112.31		48.46
	For 9" Rung Spacing, Add	1.39		
	For 6" Rung Spacing, Add	5.95		
	For 4" Rung Spacing, Add	10.91		
	For 18" Rung Spacing, Deduct	-0.99		
	For Solid Bottom, Add	22.80		
	For Vented Trough Bottom, Add	24.95		
	For 60 Degree Bend, Deduct	-20.36		
	For 45 Degree Bend, Deduct	-28.35		
	For 30 Degree Bend, Deduct	-36.35		
26 05 36 00-2533 Inside Or Outside Vertical Risers (26 05 36 00-2516)				
26 05 36 00-2534	EA 6" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	74.79		20.75
	For 9" Rung Spacing, Add	1.53		
	For 6" Rung Spacing, Add	6.55		
	For 4" Rung Spacing, Add	12.01		
	For 18" Rung Spacing, Deduct	-1.09		
	For Solid Bottom, Add	17.77		
	For Vented Trough Bottom, Add	21.36		
	For 60 Degree Bend, Deduct	-17.52		
	For 45 Degree Bend, Deduct	-23.88		
	For 30 Degree Bend, Deduct	-30.24		

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2535	EA		9" Vertical Inside Or Outside Riser 90, Fiberglass.....	80.59	24.17
			For 9" Rung Spacing, Add	1.55	
			For 6" Rung Spacing, Add	6.64	
			For 4" Rung Spacing, Add	12.18	
			For 18" Rung Spacing, Deduct	-1.11	
			For Solid Bottom, Add	18.73	
			For Vented Trough Bottom, Add	22.25	
			For 60 Degree Bend, Deduct	-18.24	
			For 45 Degree Bend, Deduct	-24.93	
			For 30 Degree Bend, Deduct	-31.62	
26 05 36 00-2536	EA		12" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	90.54	30.40
			For 9" Rung Spacing, Add	1.57	
			For 6" Rung Spacing, Add	6.73	
			For 4" Rung Spacing, Add	12.34	
			For 18" Rung Spacing, Deduct	-1.12	
			For Solid Bottom, Add	20.31	
			For Vented Trough Bottom, Add	23.66	
			For 60 Degree Bend, Deduct	-19.38	
			For 45 Degree Bend, Deduct	-26.60	
			For 30 Degree Bend, Deduct	-33.82	
26 05 36 00-2537	EA		18" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	101.24	36.74
			For 9" Rung Spacing, Add	1.62	
			For 6" Rung Spacing, Add	6.94	
			For 4" Rung Spacing, Add	12.72	
			For 18" Rung Spacing, Deduct	-1.16	
			For Solid Bottom, Add	22.12	
			For Vented Trough Bottom, Add	25.37	
			For 60 Degree Bend, Deduct	-20.76	
			For 45 Degree Bend, Deduct	-28.60	
			For 30 Degree Bend, Deduct	-36.44	
26 05 36 00-2538	EA		24" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	110.76	42.23
			For 9" Rung Spacing, Add	1.66	
			For 6" Rung Spacing, Add	7.12	
			For 4" Rung Spacing, Add	13.05	
			For 18" Rung Spacing, Deduct	-1.19	
			For Solid Bottom, Add	23.73	
			For Vented Trough Bottom, Add	26.90	
			For 60 Degree Bend, Deduct	-21.99	
			For 45 Degree Bend, Deduct	-30.38	
			For 30 Degree Bend, Deduct	-38.77	
26 05 36 00-2539	EA		30" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	116.14	45.03
			For 9" Rung Spacing, Add	1.70	
			For 6" Rung Spacing, Add	7.31	
			For 4" Rung Spacing, Add	13.39	
			For 18" Rung Spacing, Deduct	-1.22	
			For Solid Bottom, Add	24.73	
			For Vented Trough Bottom, Add	27.91	
			For 60 Degree Bend, Deduct	-22.82	
			For 45 Degree Bend, Deduct	-31.54	
			For 30 Degree Bend, Deduct	-40.27	
26 05 36 00-2540	EA		36" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	126.43	48.46
			For 9" Rung Spacing, Add	1.88	
			For 6" Rung Spacing, Add	8.07	
			For 4" Rung Spacing, Add	14.80	
			For 18" Rung Spacing, Deduct	-1.35	
			For Solid Bottom, Add	27.03	
			For Vented Trough Bottom, Add	30.60	
			For 60 Degree Bend, Deduct	-25.02	
			For 45 Degree Bend, Deduct	-34.57	
			For 30 Degree Bend, Deduct	-44.12	
26 05 36 00-2541 Horizontal Tees (26 05 36 00-2516)					
26 05 36 00-2542	EA		6" Horizontal Tee, Fiberglass Cable Tray	115.50	51.88
			For 9" Rung Spacing, Add	1.32	
			For 6" Rung Spacing, Add	5.65	
			For 4" Rung Spacing, Add	10.36	
			For 18" Rung Spacing, Deduct	-0.94	
			For Solid Bottom, Add	22.98	
			For Vented Trough Bottom, Add	24.80	
26 05 36 00-2543	EA		9" Horizontal Tee, Fiberglass Cable Tray	130.48	60.91
			For 9" Rung Spacing, Add	1.37	
			For 6" Rung Spacing, Add	5.88	
			For 4" Rung Spacing, Add	10.77	
			For 18" Rung Spacing, Deduct	-0.98	
			For Solid Bottom, Add	25.45	
			For Vented Trough Bottom, Add	27.08	
26 05 36 00-2544	EA		12" Horizontal Tee, Fiberglass Cable Tray	149.61	72.63
			For 9" Rung Spacing, Add	1.42	
			For 6" Rung Spacing, Add	6.10	
			For 4" Rung Spacing, Add	11.18	
			For 18" Rung Spacing, Deduct	-1.02	
			For Solid Bottom, Add	28.54	
			For Vented Trough Bottom, Add	29.89	



		Electrical	26
		Common Work Results For Electrical	26 05
		Cable Trays For Electrical Systems	26 05 36

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2545 EA 18" Horizontal Tee, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	167.18 1.57 6.71 12.31 -1.12 31.79 33.20	81.66
26 05 36 00-2546 EA 24" Horizontal Tee, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	175.65 1.68 7.20 13.21 -1.20 33.55 35.16	85.08
26 05 36 00-2547 EA 30" Horizontal Tee, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	187.93 1.86 7.96 14.59 -1.33 36.15 38.08	89.96
26 05 36 00-2548 EA 36" Horizontal Tee, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	203.87 2.05 8.79 16.12 -1.47 39.37 41.60	96.91
26 05 36 00-2549 Horizontal Crosses (26 05 36 00-2516)		
26 05 36 00-2550 EA 6" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	183.17 1.69 7.24 13.28 -1.21 34.72 36.18	89.96
26 05 36 00-2551 EA 9" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	194.98 1.74 7.46 13.67 -1.24 36.71 38.05	96.91
26 05 36 00-2552 EA 12" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	206.79 1.79 7.67 14.06 -1.28 38.69 39.91	103.87
26 05 36 00-2553 EA 18" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	221.25 1.93 8.28 15.19 -1.38 41.47 42.84	110.71
26 05 36 00-2554 EA 24" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	234.74 2.04 8.75 16.05 -1.46 43.96 45.39	117.66
26 05 36 00-2555 EA 30" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	250.28 2.22 9.53 17.47 -1.59 47.07 48.75	124.61
26 05 36 00-2556 EA 36" Horizontal Cross, Fiberglass Cable Tray For 9" Rung Spacing, Add For 6" Rung Spacing, Add For 4" Rung Spacing, Add For 18" Rung Spacing, Deduct For Solid Bottom, Add For Vented Trough Bottom, Add	270.44 2.46 10.53 19.30 -1.75 51.09 53.10	133.54

26 05 36 00-2557 Horizontal Wyes (26 05 36 00-2516)

26 Electrical**26 05 Common Work Results For Electrical****26 05 36 Cable Trays For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2558 EA 6" Horizontal Wye, Fiberglass Cable Tray	111.69	51.88
For 9" Rung Spacing, Add	1.19	
For 6" Rung Spacing, Add	5.08	
For 4" Rung Spacing, Add	9.31	
For 18" Rung Spacing, Deduct	-0.85	
For Solid Bottom, Add	21.83	
For Vented Trough Bottom, Add	23.28	
26 05 36 00-2559 EA 9" Horizontal Wye, Fiberglass Cable Tray	118.25	55.41
For 9" Rung Spacing, Add	1.23	
For 6" Rung Spacing, Add	5.29	
For 4" Rung Spacing, Add	9.69	
For 18" Rung Spacing, Deduct	-0.88	
For Solid Bottom, Add	23.02	
For Vented Trough Bottom, Add	24.47	
26 05 36 00-2560 EA 12" Horizontal Wye, Fiberglass Cable Tray	145.53	72.63
For 9" Rung Spacing, Add	1.28	
For 6" Rung Spacing, Add	5.49	
For 4" Rung Spacing, Add	10.06	
For 18" Rung Spacing, Deduct	-0.91	
For Solid Bottom, Add	27.32	
For Vented Trough Bottom, Add	28.25	
26 05 36 00-2561 EA 18" Horizontal Wye, Fiberglass Cable Tray	162.70	81.66
For 9" Rung Spacing, Add	1.41	
For 6" Rung Spacing, Add	6.04	
For 4" Rung Spacing, Add	11.07	
For 18" Rung Spacing, Deduct	-1.01	
For Solid Bottom, Add	30.44	
For Vented Trough Bottom, Add	31.41	
26 05 36 00-2562 EA 24" Horizontal Wye, Fiberglass Cable Tray	170.75	85.08
For 9" Rung Spacing, Add	1.51	
For 6" Rung Spacing, Add	6.47	
For 4" Rung Spacing, Add	11.86	
For 18" Rung Spacing, Deduct	-1.08	
For Solid Bottom, Add	32.08	
For Vented Trough Bottom, Add	33.20	
26 05 36 00-2563 EA 30" Horizontal Wye, Fiberglass Cable Tray	182.62	89.96
For 9" Rung Spacing, Add	1.67	
For 6" Rung Spacing, Add	7.16	
For 4" Rung Spacing, Add	13.13	
For 18" Rung Spacing, Deduct	-1.19	
For Solid Bottom, Add	34.55	
For Vented Trough Bottom, Add	35.96	
26 05 36 00-2564 EA 36" Horizontal Wye, Fiberglass Cable Tray	198.01	96.91
For 9" Rung Spacing, Add	1.85	
For 6" Rung Spacing, Add	7.91	
For 4" Rung Spacing, Add	14.51	
For 18" Rung Spacing, Deduct	-1.32	
For Solid Bottom, Add	37.61	
For Vented Trough Bottom, Add	39.26	
26 05 36 00-2565 Straight Reducers (26 05 36 00-2516)		
26 05 36 00-2566 EA 9"-6" Reducer, Fiberglass Cable Tray.....	50.31	20.75
For 9" Rung Spacing, Add	0.67	
For 6" Rung Spacing, Add	2.88	
For 4" Rung Spacing, Add	5.27	
For 18" Rung Spacing, Deduct	-0.48	
For Solid Bottom, Add	10.42	
For Vented Trough Bottom, Add	11.56	
26 05 36 00-2567 EA 12"-9" Reducer, Fiberglass Cable Tray.....	55.77	24.17
For 9" Rung Spacing, Add	0.68	
For 6" Rung Spacing, Add	2.92	
For 4" Rung Spacing, Add	5.35	
For 18" Rung Spacing, Deduct	-0.49	
For Solid Bottom, Add	11.28	
For Vented Trough Bottom, Add	12.32	
26 05 36 00-2568 EA 18"-12" Reducer, Fiberglass Cable Tray.....	61.22	27.70
For 9" Rung Spacing, Add	0.69	
For 6" Rung Spacing, Add	2.96	
For 4" Rung Spacing, Add	5.42	
For 18" Rung Spacing, Deduct	-0.49	
For Solid Bottom, Add	12.14	
For Vented Trough Bottom, Add	13.08	
26 05 36 00-2569 EA 24"-18" Reducer, Fiberglass Cable Tray.....	66.05	30.40
For 9" Rung Spacing, Add	0.71	
For 6" Rung Spacing, Add	3.06	
For 4" Rung Spacing, Add	5.61	
For 18" Rung Spacing, Deduct	-0.51	
For Solid Bottom, Add	12.97	
For Vented Trough Bottom, Add	13.87	



Electrical		26
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Cable Trays For Electrical Systems		26 05 36

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2570	EA		30"-24" Reducer, Fiberglass Cable Tray.....	73.61	33.20
			For 9" Rung Spacing, Add	0.83	
			For 6" Rung Spacing, Add	3.57	
			For 4" Rung Spacing, Add	6.55	
			For 18" Rung Spacing, Deduct	-0.60	
			For Solid Bottom, Add	14.61	
			For Vented Trough Bottom, Add	15.75	
26 05 36 00-2571	EA		36"-30" Reducer, Fiberglass Cable Tray.....	82.64	36.74
			For 9" Rung Spacing, Add	0.97	
			For 6" Rung Spacing, Add	4.15	
			For 4" Rung Spacing, Add	7.60	
			For 18" Rung Spacing, Deduct	-0.69	
			For Solid Bottom, Add	16.54	
			For Vented Trough Bottom, Add	17.93	
26 05 36 00-2572 Vertical Tees (26 05 36 00-2516)					
26 05 36 00-2573	EA		6" Vertical Tee, Fiberglass Cable Tray	149.78	51.88
			For 9" Rung Spacing, Add	2.52	
			For 6" Rung Spacing, Add	10.79	
			For 4" Rung Spacing, Add	19.79	
			For 18" Rung Spacing, Deduct	-1.80	
			For Solid Bottom, Add	33.26	
			For Vented Trough Bottom, Add	38.51	
26 05 36 00-2574	EA		9" Vertical Tee, Fiberglass Cable Tray	155.85	55.41
			For 9" Rung Spacing, Add	2.55	
			For 6" Rung Spacing, Add	10.93	
			For 4" Rung Spacing, Add	20.03	
			For 18" Rung Spacing, Deduct	-1.82	
			For Solid Bottom, Add	34.31	
			For Vented Trough Bottom, Add	39.52	
26 05 36 00-2575	EA		12" Vertical Tee, Fiberglass Cable Tray	182.66	72.63
			For 9" Rung Spacing, Add	2.58	
			For 6" Rung Spacing, Add	11.06	
			For 4" Rung Spacing, Add	20.27	
			For 18" Rung Spacing, Deduct	-1.84	
			For Solid Bottom, Add	38.46	
			For Vented Trough Bottom, Add	43.11	
26 05 36 00-2576	EA		18" Vertical Tee, Fiberglass Cable Tray	198.21	81.66
			For 9" Rung Spacing, Add	2.65	
			For 6" Rung Spacing, Add	11.37	
			For 4" Rung Spacing, Add	20.84	
			For 18" Rung Spacing, Deduct	-1.89	
			For Solid Bottom, Add	41.10	
			For Vented Trough Bottom, Add	45.61	
26 05 36 00-2577	EA		24" Vertical Tee, Fiberglass Cable Tray	205.30	85.08
			For 9" Rung Spacing, Add	2.72	
			For 6" Rung Spacing, Add	11.65	
			For 4" Rung Spacing, Add	21.36	
			For 18" Rung Spacing, Deduct	-1.94	
			For Solid Bottom, Add	42.45	
			For Vented Trough Bottom, Add	47.02	
26 05 36 00-2578	EA		30" Vertical Tee, Fiberglass Cable Tray	214.32	89.96
			For 9" Rung Spacing, Add	2.78	
			For 6" Rung Spacing, Add	11.92	
			For 4" Rung Spacing, Add	21.85	
			For 18" Rung Spacing, Deduct	-1.99	
			For Solid Bottom, Add	44.06	
			For Vented Trough Bottom, Add	48.64	
26 05 36 00-2579	EA		36" Vertical Tee, Fiberglass Cable Tray	233.02	96.91
			For 9" Rung Spacing, Add	3.07	
			For 6" Rung Spacing, Add	13.16	
			For 4" Rung Spacing, Add	24.13	
			For 18" Rung Spacing, Deduct	-2.19	
			For Solid Bottom, Add	48.12	
			For Vented Trough Bottom, Add	53.26	

26 05 39 Underfloor Raceways for Electrical Systems (26 05)

26 05 39 00-0001	Underfloor Ducts (26 05 39)				
26 05 39 00-0002	Straight Duct Sections 10' Long, 14 Gauge Steel (26 05 39 00-0001)				
26 05 39 00-0003	Standard Ducts, 3.8 Square Inches (26 05 39 00-0002)				
26 05 39 00-0004	EA		Standard Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 3.8 Square Inches.....	67.12	18.26
26 05 39 00-0005	EA		Standard Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 3.8 Square Inches.....	82.87	21.38
26 05 39 00-0006 Large Capacity Ducts, 8.9 Square Inches (26 05 39 00-0002)					
26 05 39 00-0007	EA		Large Capacity Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 8.9 Square Inches	104.52	23.14
26 05 39 00-0008	EA		Large Capacity Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 8.9 Square Inches	118.78	25.63

26 Electrical**26 05 Common Work Results For Electrical****26 05 39 Underfloor Raceways for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0009		Junction Boxes (26 05 39 00-0001)		
26 05 39 00-0010		One Level Junction Boxes (26 05 39 00-0009)		
26 05 39 00-0011	EA	1 Level UF Duct Junction Box, 1 Standard Duct Without Partitions In Box	160.38	36.31
26 05 39 00-0012	EA	1 Level UF Duct Junction Box, 1 Large Duct Without Partitions In Box	179.30	38.91
26 05 39 00-0013	EA	1 Level UF Duct Junction Box, 1 Standard And Large Duct Per Side With Partitions In Box	262.07	36.31
		Note: Isolate each duct and form a continuous raceway through the box in both directions.		
26 05 39 00-0014	EA	1 Level UF Duct Junction Box, 2 Standard Ducts Per Side With Partitions In Box	192.57	38.91
26 05 39 00-0015	EA	1 Level UF Duct Junction Box, 3 Standard Ducts Per Side With Partitions In Box	295.04	51.15
26 05 39 00-0016	EA	1 Level UF Duct Junction Box, 2 Large Ducts Per Side With Partitions In Box Duct	397.63	55.62
26 05 39 00-0017		Two Level Junction Boxes (26 05 39 00-0009)		
26 05 39 00-0018	EA	2 Level UF Duct Junction Box, 2 Standard Duct Cross, Intersects At Right Angles, Raceway Bottom Level	557.61	36.74
		Note: Accepts two standard ducts to form a continuous raceway at right angles to the top level raceway.		
26 05 39 00-0019	EA	2 Level UF Duct Junction Box, 2 Large Duct Bottom Level: Accepts Two Large Capacity Ducts	638.22	38.91
26 05 39 00-0020		Elbow Fittings (26 05 39 00-0001)		
26 05 39 00-0021		90 Degree Horizontal Elbow (26 05 39 00-0020)		
26 05 39 00-0022	EA	Underfloor Standard Duct Horizontal Elbow Fitting, 90 Degree	73.92	13.38
26 05 39 00-0023	EA	Underfloor Large Duct Horizontal Elbow Fitting, 90 Degree	75.74	13.38
26 05 39 00-0024		90 Degree Vertical Elbow (26 05 39 00-0020)		
26 05 39 00-0025	EA	Underfloor Standard Duct Vertical Elbow Fitting, 90 Degree	47.39	13.38
26 05 39 00-0026	EA	Underfloor Large Duct Vertical Elbow Fitting, 90 Degree	48.12	13.38
26 05 39 00-0027		Offset Elbow (26 05 39 00-0020)		
		Note: Two elbows required for crossover or crossunder.		
26 05 39 00-0028	EA	Underfloor Standard Duct Offset Elbow 45 Degree, 2 Required For Over-Under	47.39	15.57
26 05 39 00-0029	EA	Underfloor Large Duct Offset Elbow 45 Degree, 2 Required For Over-Under	48.12	15.57
26 05 39 00-0030		Couplings (26 05 39 00-0001)		
26 05 39 00-0031		Sleeve Couplings (26 05 39 00-0030)		
26 05 39 00-0032	EA	Underfloor Standard Duct Sleeve Coupling	36.45	20.75
26 05 39 00-0033	EA	Underfloor Large Duct Sleeve Coupling	58.64	20.75
26 05 39 00-0034		Expansion Couplings (26 05 39 00-0030)		
26 05 39 00-0035	EA	Underfloor Standard Duct Expansion Coupling	70.69	20.75
26 05 39 00-0036	EA	Underfloor Large Duct Expansion Coupling	71.60	21.89
26 05 39 00-0037		Reducing Couplings (26 05 39 00-0030)		
26 05 39 00-0038	EA	Reducing Coupling, Large To Standard Duct Underfloor Duct Coupling	49.07	3.12
26 05 39 00-0039		Duct Supports (26 05 39 00-0001)		
26 05 39 00-0040		Combination Support And Coupling (26 05 39 00-0039)		
		Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0041	EA	1 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	84.69	43.58
26 05 39 00-0042	EA	2 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	95.30	43.58
26 05 39 00-0043	EA	3 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	105.99	43.58
26 05 39 00-0044	EA	1 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	95.30	48.77
26 05 39 00-0045	EA	2 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	116.92	48.77
26 05 39 00-0046	EA	1 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	105.99	51.88
26 05 39 00-0047	EA	2 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	105.99	51.88
26 05 39 00-0048	EA	1 Standard And 2 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	116.92	51.88
26 05 39 00-0049		Duct Support Only (26 05 39 00-0039)		
		Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0050	EA	1 Underfloor Duct Support Only With Leveling Legs And Anchor Feet	74.79	38.39
26 05 39 00-0051	EA	2 Underfloor Duct Support Only With Leveling Legs And Anchor Feet	87.68	38.39
26 05 39 00-0052	EA	3 Underfloor Duct Support Only With Leveling Legs And Anchor Feet	101.08	38.39
26 05 39 00-0053		Underfloor Duct Accessories (26 05 39 00-0001)		
26 05 39 00-0054		Plugs For Unused Junction Box Openings And Duct Ends (26 05 39 00-0053)		
26 05 39 00-0055	EA	Standard Plugs For Unused Junction Box Opening And Underfloor Duct Ends	6.63	3.12
26 05 39 00-0056	EA	Large Plugs For Unused Junction Box Opening And Underfloor Duct Ends	7.17	3.12



Electrical		26
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Underfloor Raceways for Electrical Systems		26 05 39

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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 39 00-0057 Conduit Adapters (26 05 39 00-0053)				
26 05 39 00-0058	EA	One 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	21.91	5.19
26 05 39 00-0059	EA	Two 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	23.53	5.19
26 05 39 00-0060	EA	One 2" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	22.98	5.19
26 05 39 00-0061	EA	Three 1-1/4" Conduit To Large Duct Underfloor Conduit To Duct, Adapter	24.07	5.19
26 05 39 00-0062 Holders And Caps (26 05 39 00-0053)				
26 05 39 00-0063	EA	Tile Holder, Underfloor Duct Accessories	156.26	43.58
26 05 39 00-0064	EA	Terrazzo Holder, Underfloor Duct Accessories	261.34	43.58
26 05 39 00-0065	EA	Closing Caps For Inserts, Underfloor Duct Accessories	2.20	1.04
26 05 39 00-0066 Underfloor Dust Pans (26 05 39 00-0001)				
26 05 39 00-0067	EA	Underfloor Dust Carpet Pan.....	55.22	5.69
26 05 43 Underground Ducts And Raceways For Electrical Systems (26 05)				
Note: Underground utilities and conduits include warning tape.				
26 05 43 00-0001 Duct Bank (26 05 43)				
Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Labor units include material handling, unloading at job site, layout of job, measuring, cutting and fabrication, installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.				
26 05 43 00-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (26 05 43 00-0001)				
Note: Includes appropriate spacers and fittings.				
26 05 43 00-0003	LF	2 At 2", Rigid Galvanized Conduit Duct Bank	20.01	
26 05 43 00-0004	LF	4 At 2", Rigid Galvanized Conduit Duct Bank	40.04	
26 05 43 00-0005	LF	2 At 3", Rigid Galvanized Conduit Duct Bank	40.16	
26 05 43 00-0006	LF	4 At 3", Rigid Galvanized Conduit Duct Bank	80.51	
26 05 43 00-0007	LF	2 At 4", Rigid Galvanized Conduit Duct Bank	58.87	
26 05 43 00-0008	LF	4 At 4", Rigid Galvanized Conduit Duct Bank	118.72	
26 05 43 00-0009	LF	6 At 4", Rigid Galvanized Conduit Duct Bank	179.23	
26 05 43 00-0010	LF	2 At 5", Rigid Galvanized Conduit Duct Bank	103.61	
26 05 43 00-0011	LF	4 At 5", Rigid Galvanized Conduit Duct Bank	206.26	
26 05 43 00-0012	LF	6 At 5", Rigid Galvanized Conduit Duct Bank	320.63	
26 05 43 00-0013	LF	2 At 6", Rigid Galvanized Conduit Duct Bank	147.95	
26 05 43 00-0014	LF	4 At 6", Rigid Galvanized Conduit Duct Bank	296.86	
26 05 43 00-0015	LF	6 At 6", Rigid Galvanized Conduit Duct Bank	439.55	
26 05 43 00-0016 Polyvinyl Chloride (PVC), Type EB Duct Bank System (26 05 43 00-0001)				
Note: Includes appropriate spacers and fittings.				
26 05 43 00-0017	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	6.28	
26 05 43 00-0018	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	13.89	
26 05 43 00-0019	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	26.58	
26 05 43 00-0020	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	8.28	
26 05 43 00-0021	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	16.55	
26 05 43 00-0022	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	33.64	
26 05 43 00-0023	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	10.92	
26 05 43 00-0024	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	21.85	
26 05 43 00-0025	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	43.73	
26 05 43 00-0026	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	65.58	
26 05 43 00-0027	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	13.56	
26 05 43 00-0028	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	27.09	
26 05 43 00-0029	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	52.28	
26 05 43 00-0030	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	73.65	
26 05 43 00-0031	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	24.65	
26 05 43 00-0032	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	36.46	
26 05 43 00-0033	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	73.11	
26 05 43 00-0034	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	119.19	
26 05 43 00-0035 Polyvinyl Chloride (PVC), Type DB Duct Bank System (26 05 43 00-0001)				
Note: Includes appropriate spacers and fittings.				
26 05 43 00-0036	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	6.96	
26 05 43 00-0037	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	15.33	
26 05 43 00-0038	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	29.24	
26 05 43 00-0039	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	8.55	
26 05 43 00-0040	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	17.07	
26 05 43 00-0041	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	34.06	
26 05 43 00-0042	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	11.09	
26 05 43 00-0043	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	22.19	
26 05 43 00-0044	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	44.41	
26 05 43 00-0045	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	66.59	
26 05 43 00-0046	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	13.81	

26 Electrical**26 05 Common Work Results For Electrical****26 05 43 Underground Ducts And Raceways For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0047 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	27.60	
26 05 43 00-0048 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	53.30	
26 05 43 00-0049 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	75.18	
26 05 43 00-0050 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	25.00	
26 05 43 00-0051 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	37.19	
26 05 43 00-0052 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	74.58	
26 05 43 00-0053 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	121.39	

26 05 43 00-0054 Male Or Female Adapters (26 05 43 00-0001)

26 05 43 00-0055 EA 2" Adapter.....	34.42	
26 05 43 00-0056 EA 3" Adapter.....	47.78	
26 05 43 00-0057 EA 4" Adapter.....	61.09	
26 05 43 00-0058 EA 5" Adapter.....	87.86	
26 05 43 00-0059 EA 6" Adapter.....	109.95	

26 05 46 Utility Poles for Electrical Systems (26 05)**26 05 46 00-0001 Wood Poles (26 05 46)****26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)**

Note: Machine dig and set.

26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	774.95	260.54
For Class 1 Pole, Add	88.83	
For Class 2 Pole, Add	50.76	
For Class 4 Pole, Deduct	-25.38	
For Class 5 Pole, Deduct	-76.14	
For Class 6 Pole, Deduct	-101.52	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	922.73	289.06
For Class 1 Pole, Add	120.60	
For Class 2 Pole, Add	68.91	
For Class 4 Pole, Deduct	-34.46	
For Class 5 Pole, Deduct	-103.37	
For Class 6 Pole, Deduct	-137.83	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,197.81	382.31
For Class 1 Pole, Add	151.65	
For Class 2 Pole, Add	86.66	
For Class 4 Pole, Deduct	-43.33	
For Class 5 Pole, Deduct	-129.99	
For Class 6 Pole, Deduct	-173.32	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,367.11	420.50
For Class 1 Pole, Add	184.15	
For Class 2 Pole, Add	105.23	
For Class 4 Pole, Deduct	-52.61	
For Class 5 Pole, Deduct	-157.84	
For Class 6 Pole, Deduct	-210.46	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,559.89	468.34
For Class 1 Pole, Add	218.09	
For Class 2 Pole, Add	124.62	
For Class 4 Pole, Deduct	-62.31	
For Class 5 Pole, Deduct	-186.94	
For Class 6 Pole, Deduct	-249.25	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,773.37	525.63
For Class 1 Pole, Add	252.76	
For Class 2 Pole, Add	144.43	
For Class 4 Pole, Deduct	-72.22	
For Class 5 Pole, Deduct	-216.65	
For Class 6 Pole, Deduct	-288.86	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,981.64	578.13
For Class 1 Pole, Add	288.86	
For Class 2 Pole, Add	165.06	
For Class 4 Pole, Deduct	-82.53	
For Class 5 Pole, Deduct	-247.60	
For Class 6 Pole, Deduct	-330.13	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,212.44	635.74
For Class 1 Pole, Add	329.30	
For Class 2 Pole, Add	188.17	
For Class 4 Pole, Deduct	-94.09	
For Class 5 Pole, Deduct	-282.26	
For Class 6 Pole, Deduct	-376.35	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,553.78	692.91
For Class 1 Pole, Add	758.77	
For Class 2 Pole, Add	433.58	
For Class 4 Pole, Deduct	-216.79	
For Class 5 Pole, Deduct	-650.38	
For Class 6 Pole, Deduct	-867.17	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,897.87	737.09
For Class 1 Pole, Add	848.28	
For Class 2 Pole, Add	484.73	
For Class 4 Pole, Deduct	-242.37	
For Class 5 Pole, Deduct	-727.10	
For Class 6 Pole, Deduct	-969.46	



Electrical		26
Common Work Results For Electrical		26 05
Utility Poles for Electrical Systems		26 05 46

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set..... For Class 1 Pole, Add For Class 2 Pole, Add For Class 4 Pole, Deduct For Class 5 Pole, Deduct For Class 6 Pole, Deduct	4,280.11 946.94 541.11 -270.55 -811.66 -1,082.22	787.27
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms	22.20	
26 05 46 00-0016 Crossarms (26 05 46) Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	177.50	77.71
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	215.86	77.71
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	227.32	99.91
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces	461.61	216.47
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces	490.27	216.47
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces	511.67	216.47
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016) Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB	192.63	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB	246.57	46.62
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	257.66	49.95
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB	308.64	59.94
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor	434.95	76.59
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor	518.56	93.25
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	75.64	13.33
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket	378.21	66.61
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm.....	315.72	111.01
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038) Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	95.06	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting	73.89	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting	182.13	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.....	145.24	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038) Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting	62.93	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting	52.48	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting	160.72	
26 05 46 00-0048 Guying (26 05 46) Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049 Down Guy (26 05 46 00-0048)		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole	718.20	310.82
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole	727.64	310.82
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole	747.05	310.82
26 05 46 00-0053 EA Guy Guard, Plastic.....	23.10	
26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole	1,059.50	477.33
26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole	1,059.50	477.33
26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole	1,059.50	477.33

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 46 00-0058	Guy Strain Insulators Additional Insulators (26 05 46 00-0048) Note: As required at same material cost and labor.				
26 05 46 00-0059	EA Guy Strain Insulator	468.48		233.11	
26 05 46 00-0060	Pole Anchor (26 05 46 00-0048) Note: Joslyn.				
26 05 46 00-0061	EA Pole Anchor, 4" Helix, 3/4" x 54" Shaft.....	68.22			
26 05 46 00-0062	EA Pole Anchor, 6" Helix, 3/4" x 66" Shaft.....	72.92			
26 05 46 00-0063	EA Pole Anchor, 8" Helix, 1" x 66" Shaft.....	83.96			
26 05 46 00-0064	EA Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft.....	103.33			
26 05 46 00-0065	EA Pole Anchor, 10" Helix, 1-1/4" x 8" Shaft.....	137.60			
26 05 46 00-0066	EA Pole Anchor, 16" Helix, 1-1/4" x 8" Shaft.....	180.11			
26 05 46 00-0067	Insulators (26 05 46)				
26 05 46 00-0068	Pin Insulator With Pin (26 05 46 00-0067)				
26 05 46 00-0069	EA 5 KV Class 55-3, Pin Insulator With Pin.....	148.22		66.61	
26 05 46 00-0070	EA 15 KV Class 55-5, Pin Insulator With Pin.....	152.05		66.61	
26 05 46 00-0071	Suspension Insulator (26 05 46 00-0067) Note: Includes clevis and strain clamp.				
26 05 46 00-0072	EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	187.50		88.81	
26 05 46 00-0073	EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	197.92		88.81	
26 05 46 00-0074	EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	276.29		111.01	
26 05 46 00-0075	EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	435.78		177.61	
26 05 46 00-0076	Spool Insulator With Clevis (26 05 46 00-0067)				
26 05 46 00-0077	EA 5 KV Class 53-5, Spool Insulator With Clevis	62.42		27.75	
26 05 46 00-0078	EA 15 KV Class, Spool Insulator With Clevis	199.69		99.91	
26 05 46 00-0079	EA 25 KV Class, Spool Insulator With Clevis	259.11		99.91	
26 05 46 00-0080	Secondary Rack (26 05 46 00-0067)				
26 05 46 00-0081	EA 1 Spool Secondary Rack	124.11		55.51	
26 05 46 00-0082	EA 2 Spool Secondary Rack	127.47		70.82	
26 05 46 00-0083	EA 3 Spool Secondary Rack	190.93		94.36	
26 05 46 00-0084	EA 4 Spool Secondary Rack	214.75		94.36	
26 05 46 00-0085	Outdoor Load Break Switches (26 05 46) Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.				
26 05 46 00-0086	7.2 KV Outdoor Load Break Switches (26 05 46 00-0085)				
26 05 46 00-0087	EA 600 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	2,836.35		377.43	
26 05 46 00-0088	EA 1,200 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,376.44		377.43	
26 05 46 00-0089	EA 1,600 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,990.62		638.29	
26 05 46 00-0090	EA 2,000 Amp, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,220.16		638.29	
26 05 46 00-0091	14.4 KV Outdoor Load Break Switches (26 05 46 00-0085)				
26 05 46 00-0092	EA 600 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	3,414.90		377.43	
26 05 46 00-0093	EA 1,200 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,304.94		377.43	
26 05 46 00-0094	EA 1,600 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	7,990.62		638.29	
26 05 46 00-0095	EA 2,000 Amp, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,220.16		638.29	
26 05 46 00-0096	23 KV Outdoor Load Break Switches (26 05 46 00-0085)				
26 05 46 00-0097	EA 600 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	3,780.25		438.48	
26 05 46 00-0098	EA 1,200 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,911.31		438.48	
26 05 46 00-0099	EA 1,600 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,408.14		754.85	
26 05 46 00-0100	EA 2,000 Amp, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,645.20		754.85	
26 05 46 00-0101	Square Distribution Poles (26 05 46)				
26 05 46 00-0102	Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0101)				
26 05 46 00-0103	EA 20', Steel Taped Shaft Distribution Pole.....	2,250.10		471.79	
26 05 46 00-0104	EA 25', Steel Taped Shaft Distribution Pole.....	2,518.38		499.53	
26 05 46 00-0105	EA 30', Steel Taped Shaft Distribution Pole.....	2,740.31		555.04	
26 05 46 00-0106	EA 35', Steel Taped Shaft Distribution Pole.....	3,029.59		610.55	
26 05 46 00-0107	EA 40', Steel Taped Shaft Distribution Pole.....	4,006.68		666.04	
26 05 46 00-0108	Square Prestressed Concrete Distribution Poles (26 05 46 00-0101)				
26 05 46 00-0109	EA 30', Prestressed Concrete Square Pole For Distribution.....	2,900.44		843.86	



Electrical		26
Common Work Results For Electrical		26 05
Utility Poles for Electrical Systems		26 05 46

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0110 EA 35', Prestressed Concrete Square Pole For Distribution.....	3,214.77	925.53
26 05 46 00-0111 EA 40', Prestressed Concrete Square Pole For Distribution.....	3,725.16	1,034.41
26 05 46 00-0112 EA 45', Prestressed Concrete Square Pole For Distribution.....	4,184.37	1,143.30
26 05 46 00-0113 EA 50', Prestressed Concrete Square Pole For Distribution.....	5,020.62	1,388.29
26 05 46 00-0114 EA 55', Prestressed Concrete Square Pole For Distribution.....	5,887.24	1,633.28
26 05 46 00-0115 EA 60', Prestressed Concrete Square Pole For Distribution.....	6,886.64	1,851.05
26 05 46 00-0116 EA 65', Prestressed Concrete Square Pole For Distribution.....	8,351.06	2,286.60
26 05 46 00-0117 EA 70', Prestressed Concrete Square Pole For Distribution.....	9,318.42	2,504.37
26 05 46 00-0118 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0119 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0118)		
26 05 46 00-0120 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	2,361.92	416.28
26 05 46 00-0121 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,260.18	444.03
26 05 46 00-0122 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,745.24	499.53
26 05 46 00-0123 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,427.98	555.04
26 05 46 00-0124 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	6,613.65	610.55
26 05 46 00-0125 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0126 Round Tapered Pole (26 05 46 00-0125)		
26 05 46 00-0127 EA 40', Galvanized Steel Tapered Round Pole For Distribution.....	3,351.56	666.04
26 05 46 00-0128 EA 45', Galvanized Steel Tapered Round Pole For Distribution.....	3,869.46	721.55
26 05 46 00-0129 EA 50', Galvanized Steel Tapered Round Pole For Distribution.....	4,126.62	777.05
26 05 46 00-0130 EA 55', Galvanized Steel Tapered Round Pole For Distribution.....	4,847.45	888.06
26 05 46 00-0131 EA 60', Galvanized Steel Tapered Round Pole For Distribution.....	5,948.98	999.07
26 05 46 00-0132 EA 65', Galvanized Steel Tapered Round Pole For Distribution.....	7,089.04	1,279.40
26 05 46 00-0133 EA 70', Galvanized Steel Tapered Round Pole For Distribution.....	7,905.49	1,451.44
26 05 46 00-0134 EA 75', Galvanized Steel Tapered Round Pole For Distribution.....	8,747.24	1,633.28
26 05 46 00-0135 EA 80', Galvanized Steel Tapered Round Pole For Distribution.....	9,833.08	1,851.05
26 05 46 00-0136 EA 85', Galvanized Steel Tapered Round Pole For Distribution.....	10,501.83	1,959.93
26 05 46 00-0137 EA 90', Galvanized Steel Tapered Round Pole For Distribution.....	11,423.63	2,177.71
26 05 46 00-0138 EA 95', Galvanized Steel Tapered Round Pole For Distribution.....	12,571.34	2,449.93
26 05 46 00-0139 EA 100', Galvanized Steel Tapered Round Pole For Distribution.....	13,923.68	2,776.58
26 05 46 00-0140 12 Sided Tapered (26 05 46 00-0125)		
26 05 46 00-0141 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	5,516.04	666.04
26 05 46 00-0142 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,080.84	721.55
26 05 46 00-0143 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,724.11	777.05
26 05 46 00-0144 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,403.94	888.06
26 05 46 00-0145 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	9,757.42	999.07
26 05 46 00-0146 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	10,920.89	1,279.40
26 05 46 00-0147 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	12,638.24	1,451.44
26 05 46 00-0148 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	13,629.17	1,633.28
26 05 46 00-0149 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	14,708.88	1,851.05
26 05 46 00-0150 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	15,585.62	1,959.93
26 05 46 00-0151 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	17,674.49	2,177.71
26 05 46 00-0152 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	18,804.68	2,449.93
26 05 46 00-0153 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	20,197.94	2,776.58
26 05 46 00-0154 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	21,679.61	3,103.23
26 05 46 00-0155 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0125)		
26 05 46 00-0156 EA Ladder Clips.....	12.30	
26 05 46 00-0157 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	92.32	
26 05 46 00-0158 EA Ground Sleeve-2' At Ground Line.....	92.85	
26 05 46 00-0159 Arms With Baseplates And Endplates (26 05 46 00-0125)		
26 05 46 00-0160 EA 4' Arm With Baseplate And Endplate.....	496.57	111.01
26 05 46 00-0161 EA 5' Arm With Baseplate And Endplate.....	533.79	111.01
26 05 46 00-0162 EA 6' Arm With Baseplate And Endplate.....	682.88	166.51
26 05 46 00-0163 EA 7' Arm With Baseplate And Endplate.....	715.45	166.51
26 05 46 00-0164 EA 8' Arm With Baseplate And Endplate.....	862.85	222.01
26 05 46 00-0165 EA 9' Arm With Baseplate And Endplate.....	900.06	222.01
26 05 46 00-0166 EA 10' Arm With Baseplate And Endplate.....	1,183.28	277.52
26 05 46 00-0167 EA 11' Arm With Baseplate And Endplate.....	1,225.04	277.52
26 05 46 00-0168 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0125)		
26 05 46 00-0169 EA 15,000 LB Standard Vangs Load Bearing At Any Angle.....	252.71	111.01
26 05 46 00-0170 EA 30,000 LB Standard Vangs Load Bearing At Any Angle.....	275.52	111.01
26 05 46 00-0171 EA 45,000 LB Standard Vangs Load Bearing At Any Angle.....	306.71	111.01
26 05 46 00-0172 Armless Construction Brackets (26 05 46 00-0125)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0173			Verticals Insulator And Equipment Bracket (26 05 46 00-0172)		
26 05 46 00-0174	EA		7" 1 Position Vertical Insulation And Equipment Bracket	256.43	111.01
26 05 46 00-0175	EA		12" 1 Position Vertical Insulation And Equipment Bracket	270.83	111.01
26 05 46 00-0176	EA		12" 3 Position Vertical Insulation And Equipment Bracket	294.23	111.01
26 05 46 00-0177	EA		18" 1 Position Vertical Insulation And Equipment Bracket	420.79	166.51
26 05 46 00-0178	EA		18" 3 Position Vertical Insulation And Equipment Bracket	434.45	166.51
26 05 46 00-0179			Horizontal And Multiple Insulator Brackets (26 05 46 00-0172)		
26 05 46 00-0180	EA		Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	245.22	111.01
26 05 46 00-0181	EA		Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	275.48	111.01
26 05 46 00-0182	EA		Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	406.13	166.51
26 05 46 00-0183	EA		Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	477.55	166.51
26 05 46 00-0184	EA		Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	618.07	222.01
26 05 46 00-0185	EA		Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	655.98	222.01
26 05 46 00-0186			Pole Top Bracket And Pins (26 05 46 00-0172)		
26 05 46 00-0187	EA		Pole Top Pin - 5"	249.61	111.01
26 05 46 00-0188	EA		Pole Top Bracket - 5"	256.96	111.01
26 05 46 00-0189			Angle Pins (26 05 46 00-0172)		
26 05 46 00-0190	EA		Angle Pin - 25 Degree, 6"	248.62	111.01
26 05 46 00-0191	EA		Angle Pin - 25 Degree, 7 1/4"	272.48	111.01
26 05 46 00-0192			Static And Neutral Wire Brackets (26 05 46 00-0172)		
26 05 46 00-0193	EA		Neutral Wire Extension Bracket	258.02	111.01
26 05 46 00-0194	EA		Static Wire Support Bracket	260.60	111.01
26 05 46 00-0195			Cutout, Arrestor And Terminator Brackets (26 05 46 00-0172)		
26 05 46 00-0196	EA		Cutout And Arrestor, With Mounting Bracket	240.32	111.01
26 05 46 00-0197	EA		Equipment Mounting T Bracket	252.31	111.01
26 05 46 00-0198	EA		15 KV Cutout	307.17	
26 05 46 00-0199	EA		9/10 KV Arrestor	290.31	111.01
26 05 46 00-0200			Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0172)		
26 05 46 00-0201	EA		Parallel Cable Spacer	276.55	111.01
26 05 46 00-0202	EA		Conduit Standoff Support Bracket	268.31	111.01
26 05 46 00-0203	EA		Three Transformer Pole Mounted Cluster Bracket	554.05	111.01
26 05 46 00-0204			15 KV 200 Amp Solenoid Operated High Voltage Switch (26 05 46 00-0172)		
			Note: Includes pole mounting bracket.		
26 05 46 00-0205	EA		15 KV, 1 Phase, Solenoid Switch With Pole Bracket	1,297.87	277.52
26 05 46 00-0206			Octagonal Tapered (26 05 46 00-0125)		
26 05 46 00-0207	EA		40', Galvanized Steel Tapered Octagonal Pole For Distribution	5,676.92	666.04
26 05 46 00-0208	EA		45', Galvanized Steel Tapered Octagonal Pole For Distribution	6,259.27	721.55
26 05 46 00-0209	EA		50', Galvanized Steel Tapered Octagonal Pole For Distribution	6,923.01	777.05
26 05 46 00-0210	EA		55', Galvanized Steel Tapered Octagonal Pole For Distribution	7,620.39	943.56
26 05 46 00-0211	EA		60', Galvanized Steel Tapered Octagonal Pole For Distribution	10,055.77	999.07
26 05 46 00-0212	EA		65', Galvanized Steel Tapered Octagonal Pole For Distribution	11,242.65	1,279.40
26 05 46 00-0213	EA		70', Galvanized Steel Tapered Octagonal Pole For Distribution	13,012.65	1,361.07
26 05 46 00-0214	EA		75', Galvanized Steel Tapered Octagonal Pole For Distribution	14,028.44	1,633.28
26 05 46 00-0215	EA		80', Galvanized Steel Tapered Octagonal Pole For Distribution	15,131.54	1,742.17
26 05 46 00-0216	EA		85', Galvanized Steel Tapered Octagonal Pole For Distribution	16,033.16	1,959.93
26 05 46 00-0217	EA		90', Galvanized Steel Tapered Octagonal Pole For Distribution	18,184.92	2,068.83
26 05 46 00-0218	EA		95', Galvanized Steel Tapered Octagonal Pole For Distribution	19,341.44	2,449.93
26 05 46 00-0219	EA		100', Galvanized Steel Tapered Octagonal Pole For Distribution	20,761.02	2,613.25
26 05 46 00-0220	EA		105', Galvanized Steel Tapered Octagonal Pole For Distribution	22,271.93	2,939.91
26 05 46 00-0221			Removal And Relocation Of Steel Service Poles (26 05 46 00-0125)		
26 05 46 00-0222	LF		Removal And Relocation Of Steel Service Poles With Arms Up To 60'	38.85	
26 05 46 00-0223			Special Steel Bases For Poles (26 05 46 00-0125)		
26 05 46 00-0224	EA		Spin-In Steel Base For Poles	186.61	
26 05 46 00-0225	EA		Series 3, 25' Pole And less	202.55	55.51
26 05 46 00-0226	EA		Series 4, 40' Pole And less	239.55	63.83
26 05 46 00-0227	EA		Series 5, 50' Pole And less	270.99	69.38



Electrical		26
Common Work Results For Electrical		26 05
Utility Poles for Electrical Systems		26 05 46

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0228 Primary Fuse Cutouts (26 05 46) Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 05 46 00-0229 Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0228) Note: Includes the fuse and cut-out switch.		
26 05 46 00-0230 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0229)		
26 05 46 00-0231 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	520.39	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0232 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	631.40	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.51	
26 05 46 00-0233 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	742.03	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.70	
26 05 46 00-0234 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	749.54	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.82	
26 05 46 00-0235 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	749.54	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.82	
26 05 46 00-0236 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0229)		
26 05 46 00-0237 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting.....	520.39	222.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0238 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 05 46 00-0229)		
26 05 46 00-0239 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting.....	530.02	222.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0240 Fuseholders (26 05 46 00-0229) Note: Including current limiting fuse.		
26 05 46 00-0241 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	479.80	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0242 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	590.81	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.51	
26 05 46 00-0243 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	701.44	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.70	
26 05 46 00-0244 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	483.13	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0245 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	594.14	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.51	
26 05 46 00-0246 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	479.80	222.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0247 Accessories (26 05 46 00-0229)		
26 05 46 00-0248 EA Hot Line Clamp.....	65.45	24.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.65	
26 05 46 00-0249 EA Stirrup.....	68.50	24.98
26 05 46 00-0250 Loadbreak Current Limiting Primary Fuse Cutouts (26 05 46 00-0228) Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 05 46 00-0251 8.3 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0250)		
26 05 46 00-0252 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	595.37	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0253 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	706.38	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.51	
26 05 46 00-0254 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	817.01	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.70	
26 05 46 00-0255 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	831.51	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.82	
26 05 46 00-0256 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	831.51	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.82	
26 05 46 00-0257 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 05 46 00-0250)		
26 05 46 00-0258 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting.....	595.37	222.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0259 17.1 KV-125 KV BIL Loadbreak Current Limiting (26 05 46 00-0250)		
26 05 46 00-0260 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting.....	595.37	222.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0261 Fuseholders (26 05 46 00-0250) Note: Includes current limiting fuses.		
26 05 46 00-0262 EA 15 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	483.24	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.21	
26 05 46 00-0263 EA 25 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	594.25	277.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.51	

26 Electrical**26 05 Common Work Results For Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0264 EA 40 Amp, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	704.88 199.70	277.52
26 05 46 00-0265 EA 15 Amp, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	483.24 133.21	277.52
26 05 46 00-0266 Pole Mounted Capacitors (26 05 46 00-0250)		
26 05 46 00-0267 EA Capacitors - Pole Mounted 6 KVAR.....	874.97	223.80
26 05 46 00-0268 Pole Structure Assemblies (26 05 46 00-0228)		
26 05 46 00-0269 5 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0270 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	434.03	210.91
26 05 46 00-0271 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	727.75	355.23
26 05 46 00-0272 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	693.86	277.52
26 05 46 00-0273 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	374.93	144.31
26 05 46 00-0274 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	496.88	199.81
26 05 46 00-0275 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	924.99	399.62
26 05 46 00-0276 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	708.66	299.72
26 05 46 00-0277 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,361.13	599.44
26 05 46 00-0278 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,536.53	677.14
26 05 46 00-0279 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	804.85	333.03
26 05 46 00-0280 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	758.02	355.23
26 05 46 00-0281 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,484.17	721.55
26 05 46 00-0282 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,007.54	432.93
26 05 46 00-0283 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	670.37	310.82
26 05 46 00-0284 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,320.87	632.75
26 05 46 00-0285 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	916.03	321.92
26 05 46 00-0286 15 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0287 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	443.66	210.91
26 05 46 00-0288 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	741.51	355.23
26 05 46 00-0289 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	740.63	277.52
26 05 46 00-0290 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	391.44	144.31
26 05 46 00-0291 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	520.27	188.71
26 05 46 00-0292 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	971.76	399.62
26 05 46 00-0293 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	743.06	299.72
26 05 46 00-0294 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,431.29	599.44
26 05 46 00-0295 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,631.46	677.14
26 05 46 00-0296 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	851.62	333.03
26 05 46 00-0297 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	775.90	355.23
26 05 46 00-0298 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,502.05	721.55
26 05 46 00-0299 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,043.31	432.93
26 05 46 00-0300 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	688.25	299.72
26 05 46 00-0301 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,338.75	632.75
26 05 46 00-0302 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	951.80	388.53
26 05 46 00-0303 25 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0304 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,015.35	333.03
26 05 46 00-0305 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	582.33	166.51
26 05 46 00-0306 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	852.73	255.32
26 05 46 00-0307 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,323.34	521.74
26 05 46 00-0308 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,139.79	388.53
26 05 46 00-0309 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,003.68	765.95
26 05 46 00-0310 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,050.39	865.86
26 05 46 00-0311 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,345.35	505.09
26 05 46 00-0312 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,208.80	505.09
26 05 46 00-0313 50 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0314 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,364.97	455.13
26 05 46 00-0315 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	723.10	233.11
26 05 46 00-0316 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,005.58	366.33
26 05 46 00-0317 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,939.62	743.75
26 05 46 00-0318 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,473.29	555.04
26 05 46 00-0319 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,879.16	1,110.08
26 05 46 00-0320 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,317.08	1,232.18
26 05 46 00-0321 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,658.30	599.44
26 05 46 00-0322 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,771.45	693.80
26 05 46 00-0323 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,689.83	654.94
26 05 46 00-0324 Overhead To Underground Conversion Structures (26 05 46 00-0228)		
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0325 5 KV Structures (26 05 46 00-0324) Note: Excludes pole.		
26 05 46 00-0326 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	3,912.18	2,220.15
26 05 46 00-0327 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	3,912.18	2,220.15
26 05 46 00-0328 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	3,912.18	2,220.15
26 05 46 00-0329 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	3,912.18	2,220.15
26 05 46 00-0330 15 KV Structures (26 05 46 00-0324) Note: Excludes pole.		
26 05 46 00-0331 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	3,976.91	2,220.15
26 05 46 00-0332 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	3,976.91	2,220.15
26 05 46 00-0333 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	3,976.91	2,220.15
26 05 46 00-0334 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	3,976.91	2,220.15
26 05 46 00-0335 25 KV Structures (26 05 46 00-0324) Note: Excludes pole.		
26 05 46 00-0336 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,047.53	2,220.15
26 05 46 00-0337 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,047.53	2,220.15
26 05 46 00-0338 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,047.53	2,220.15
26 05 46 00-0339 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	4,047.53	2,220.15
26 05 46 00-0340 Transformer Stations (26 05 46 00-0228) Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 05 46 00-0341 5 KV Station (26 05 46 00-0340)		
26 05 46 00-0342 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	5,311.28	2,959.46
26 05 46 00-0343 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole	5,966.36	3,330.23
26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	6,621.45	3,699.89
26 05 46 00-0345 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	6,621.45	3,699.89
26 05 46 00-0346 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	5,311.28	2,959.46
26 05 46 00-0347 15 KV Stations (26 05 46 00-0340)		
26 05 46 00-0348 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	5,376.02	2,958.62
26 05 46 00-0349 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole	6,031.10	3,330.23
26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	6,686.18	3,699.89
26 05 46 00-0351 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	6,686.18	3,699.89
26 05 46 00-0352 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole	5,376.02	2,959.46
26 05 46 00-0353 25 KV Stations (26 05 46 00-0340)		
26 05 46 00-0354 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	5,446.64	2,959.46
26 05 46 00-0355 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole	6,101.72	3,330.23
26 05 46 00-0356 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	6,756.80	3,699.89
26 05 46 00-0357 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	6,756.80	3,699.89
26 05 46 00-0358 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole	5,446.64	2,959.46
26 05 53 Identification for Electrical Systems (26 05)		
26 05 53 00-0001 Conduit Markers Pressure-Sensitive (26 05 53) Note: Stick-on, includes arrow tape.		
26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on	11.01	
26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on	11.53	
26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on	12.57	
26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	12.77	
26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	12.98	
26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on	13.30	
26 05 53 00-0008 EA 2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	15.23	
26 05 53 00-0009 EA 3" Outside Diameter Pressure Sensitive Marker Stick-on	15.64	
26 05 53 00-0010 EA 3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	15.95	
26 05 53 00-0011 EA 4" Outside Diameter Pressure Sensitive Marker Stick-on	16.27	
26 05 53 00-0012 EA 4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	16.92	
26 05 53 00-0013 EA 5" Outside Diameter Pressure Sensitive Marker Stick-on	17.61	
26 05 53 00-0014 EA 6" Outside Diameter Pressure Sensitive Marker Stick-on	18.23	
26 05 53 00-0015 EA 7" Outside Diameter Pressure Sensitive Marker Stick-on	18.84	
26 05 53 00-0016 EA 8" Outside Diameter Pressure Sensitive Marker Stick-on	20.44	
26 05 53 00-0017 EA 10" Outside Diameter Pressure Sensitive Marker Stick-on	21.58	
26 05 53 00-0018 Labeling Electrical Wires (26 05 53)		
26 05 53 00-0019 EA Labeling Wire	2.21	
26 05 83 Wiring Connections (26 05)		

26 Electrical**26 05 Common Work Results For Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0001 Tape Wrapped Compression Connectors (26 05 83)		
26 05 83 00-0002 EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	12.55	4.67
26 05 83 00-0003 EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	13.63	5.19
26 05 83 00-0004 EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	14.54	5.71
26 05 83 00-0005 EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	16.55	6.22
26 05 83 00-0006 EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	17.83	6.74
26 05 83 00-0007 EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	19.66	7.26
26 05 83 00-0008 EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	21.03	7.78
26 05 83 00-0009 EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	22.83	8.30
26 05 83 00-0010 EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	25.31	9.34
26 05 83 00-0011 EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	26.61	9.86
26 05 83 00-0012 EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	29.17	10.38
26 05 83 00-0013 EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	31.44	10.90
26 05 83 00-0014 EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	34.94	11.93
26 05 83 00-0015 EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volts.....	40.28	13.48
26 05 83 00-0016 One Hole Compression Lugs (26 05 83)		
26 05 83 00-0017 EA #22-18 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	17.44	13.48
26 05 83 00-0018 EA #16-14 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	17.52	13.48
26 05 83 00-0019 EA #12-10 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	19.78	14.53
26 05 83 00-0020 EA #8 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	24.02	16.08
26 05 83 00-0021 EA #6 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	34.00	20.75
26 05 83 00-0022 EA #4 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	40.13	20.75
26 05 83 00-0023 EA #2 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	46.17	20.75
26 05 83 00-0024 EA 1/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	57.13	31.13
26 05 83 00-0025 EA 2/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	67.20	31.13
26 05 83 00-0026 EA 3/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	78.72	31.13
26 05 83 00-0027 EA 4/0 AWG Low Voltage (To 600 Volts) One Hole Compression Lug.....	95.03	41.50
26 05 83 00-0028 EA 250 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	112.76	62.25
26 05 83 00-0029 EA 300 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	128.95	62.25
26 05 83 00-0030 EA 350 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	138.69	62.25
26 05 83 00-0031 EA 400 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	150.78	72.63
26 05 83 00-0032 EA 500 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	164.73	72.63
26 05 83 00-0033 EA 750 MCM Low Voltage (To 600 Volts) One Hole Compression Lug.....	179.15	83.01
26 05 83 00-0034 EA 1,000 MCM Compression Lugs, 1 Hole, Low Voltage, To 600 Volts.....	209.18	93.39
26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)		
26 05 83 00-0036 EA #8 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	35.37	17.64
26 05 83 00-0037 EA #6 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	37.85	18.78
26 05 83 00-0038 EA #4 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	40.04	18.78
26 05 83 00-0039 EA #2 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	46.06	21.58
26 05 83 00-0040 EA 1/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	57.02	26.98
26 05 83 00-0041 EA 2/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	67.08	32.06
26 05 83 00-0042 EA 3/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	78.58	37.56
26 05 83 00-0043 EA 4/0 AWG Low Voltage (To 600 Volts) Two Hole Compression Lug.....	94.88	45.55
26 05 83 00-0044 EA 250 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	112.58	54.06
26 05 83 00-0045 EA 300 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	128.75	61.74
26 05 83 00-0046 EA 350 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	138.48	66.51
26 05 83 00-0047 EA 400 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	150.53	72.01
26 05 83 00-0048 EA 500 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	164.44	78.65
26 05 83 00-0049 EA 750 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	179.31	85.29
26 05 83 00-0050 EA 1,000 MCM Low Voltage (To 600 Volts) Two Hole Compression Lug.....	220.64	103.76
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)		
26 05 83 00-0052 EA #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	53.63	41.50
26 05 83 00-0053 EA #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	58.98	44.62
26 05 83 00-0054 EA #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	67.16	46.69
26 05 83 00-0055 EA #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	77.59	51.88
26 05 83 00-0056 EA 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	91.19	57.07
26 05 83 00-0057 EA 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	100.99	62.25
26 05 83 00-0058 EA 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	125.77	67.44
26 05 83 00-0059 EA 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	134.86	72.63
26 05 83 00-0060 EA 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	141.99	77.82
26 05 83 00-0061 EA 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	160.16	85.60
26 05 83 00-0062 EA 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	178.33	124.51
26 05 83 00-0063 EA 400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	194.68	103.76
26 05 83 00-0064 EA 500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	211.03	140.07
26 05 83 00-0065 EA 750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	230.85	145.26
26 05 83 00-0066 EA 1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volts.....	258.02	155.64
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)		
26 05 83 00-0068 EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	73.85	41.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.79	
26 05 83 00-0069 EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	84.89	41.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	117.83	62.25
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.59	
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	139.26	62.25
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.91	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	166.35	77.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.16	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volts.....	229.73	103.76
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.85	
26 05 83 00-0074 Terminal Blocks (26 05 83)					
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	862.28	383.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	230.57	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	189.34	51.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.47	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	205.55	51.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.81	
26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection (26 05 83)					
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	35.36	18.78
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	37.85	18.78
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	40.04	18.78
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	46.06	21.58
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	57.01	26.98
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	67.08	32.06
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	78.58	37.56
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	94.88	45.55
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	112.58	54.06
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	128.75	61.74
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	138.48	66.51
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	150.53	72.01
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	164.44	78.65
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	164.70	78.65
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	35.36	18.78
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	37.85	18.78
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	40.04	18.78
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	46.06	21.58
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	57.01	26.98
26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	67.08	32.06
26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	78.58	37.56
26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	94.88	45.55
26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	112.58	54.06
26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	128.75	61.74
26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	138.48	66.51
26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	150.53	72.01
26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	164.44	78.65
26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	164.70	78.65
26 05 83 00-0107 Copper Mechanical Lugs (26 05 83)					
26 05 83 00-0108	EA		#8 Copper Mechanical Lugs.....	27.88	12.97
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 05 83 00-0109	EA		#6 Copper Mechanical Lugs.....	33.55	15.67
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.40	
26 05 83 00-0110	EA		#4 Copper Mechanical Lugs.....	38.81	18.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 05 83 00-0111	EA		#2 Copper Mechanical Lugs.....	50.26	23.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.90	
26 05 83 00-0112	EA		1/0 Copper Mechanical Lugs.....	67.64	31.13
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 05 83 00-0113	EA		2/0 Copper Mechanical Lugs.....	79.77	36.10
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.69	
26 05 83 00-0114	EA		3/0 Copper Mechanical Lugs.....	92.59	41.50
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 05 83 00-0115	EA		4/0 Copper Mechanical Lugs.....	104.77	46.58
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.93	
26 05 83 00-0116	EA		250 MCM Copper Mechanical Lugs.....	118.70	51.88
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 05 83 00-0117	EA		300 MCM Copper Mechanical Lugs.....	132.38	57.07
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.25	
26 05 83 00-0118	EA		350 MCM Copper Mechanical Lugs.....	145.97	62.25
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 05 83 00-0119	EA		400 MCM Copper Mechanical Lugs.....	159.49	67.44
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.43	
26 05 83 00-0120	EA		500 MCM Copper Mechanical Lugs.....	173.25	72.63
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.58	
26 05 83 00-0121	EA		750 MCM Copper Mechanical Lugs.....	196.73	82.70
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.65	
26 05 83 00-0122	EA		1,000 MCM Copper Mechanical Lugs.....	222.46	93.39
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03	

26 Electrical**26 05 Common Work Results For Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0123 Gel Connectors (26 05 83)		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	38.03	
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.12	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit.....	37.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	10.02	4.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	10.07	4.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	10.13	4.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.85	
26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	57.77	25.94
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	57.57	25.94
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	68.18	31.13
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.19	38.91
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.58	38.91
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.66	38.91
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	85.97	38.91
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	112.06	51.88
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	113.53	51.88
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	142.75	64.85
26 05 83 00-0142 AC Three Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	57.57	25.94
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	68.18	31.13
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.19	38.91
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.58	38.91
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.66	38.91
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	85.97	38.91
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	112.06	51.88
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	113.53	51.88
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	142.75	64.85
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	144.73	64.85
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	178.45	77.82
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	181.47	77.82
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	245.08	103.76
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	306.84	129.70
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	364.51	155.64
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	430.05	181.57
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	493.08	207.52
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	613.90	259.39
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	727.40	308.68
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	855.81	360.04
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing	1,247.37	539.97
26 05 83 00-0164 AC Three Phase, 460 Volt (26 05 83 00-0130)		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	57.57	25.94
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	68.18	31.13
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.19	38.91
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.58	38.91
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	84.66	38.91
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	85.97	38.91
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	112.06	51.88
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	113.53	51.88
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	142.75	64.85
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	144.73	64.85
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	178.46	77.82
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	181.46	77.82
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	245.08	103.76
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	307.16	129.90
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	364.51	155.64
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	430.05	181.57
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	493.08	207.52
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	613.90	259.39
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing	727.69	308.79



Electrical			26
Common Work Results For Electrical			26 05
Wiring Connections			26 05 83

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	856.21	360.25
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,248.27	540.38
26 05 83 00-0186 AC Single Phase, 120 Volt (26 05 83 00-0130)		
26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	57.77	25.94
26 05 83 00-0188 Motor Moisture Sensor (26 05 83 00-0130)		
26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding.....	262.30	

26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)

26 09 23 00-0001 Lighting Contactors (26 09 23)		
Note: Up to 600 volt.		
26 09 23 00-0002 Electrically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0005 EA 20 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	328.26	83.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		49.81
26 09 23 00-0006 EA 30 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	398.93	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		56.03
26 09 23 00-0007 EA 60 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	725.12	145.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		87.16
26 09 23 00-0008 EA 100 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,107.91	197.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		118.28
26 09 23 00-0009 EA 200 Amp, 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,197.00	259.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		155.64
26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0011 EA 20 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	370.44	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		56.03
26 09 23 00-0012 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	438.41	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		62.26
26 09 23 00-0013 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	791.59	166.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		99.61
26 09 23 00-0014 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,200.23	217.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		130.74
26 09 23 00-0015 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,363.43	285.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		171.20
26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0017 EA 20 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	431.63	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		62.26
26 09 23 00-0018 EA 30 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	510.42	114.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		68.48
26 09 23 00-0019 EA 60 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	947.19	186.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		112.06
26 09 23 00-0020 EA 100 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,419.58	238.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		143.19
26 09 23 00-0021 EA 200 Amp, 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,978.28	311.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		186.77
26 09 23 00-0022 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024 EA 20 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	500.73	83.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		49.81
26 09 23 00-0025 EA 30 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	627.59	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		56.03
26 09 23 00-0026 EA 60 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	1,181.11	145.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		87.16
26 09 23 00-0027 EA 100 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,755.56	197.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		118.28
26 09 23 00-0028 EA 200 Amp, 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,302.43	259.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		155.64
26 09 23 00-0029 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0030 EA 20 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	524.88	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		56.03
26 09 23 00-0031 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	667.08	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		62.26

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0032 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,248.91	166.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.61	
26 09 23 00-0033 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,847.44	217.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.74	
26 09 23 00-0034 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,468.41	285.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.20	
26 09 23 00-0035 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0036 EA 20 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	569.51	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26	
26 09 23 00-0037 EA 30 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	739.09	114.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.48	
26 09 23 00-0038 EA 60 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,582.37	186.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.06	
26 09 23 00-0039 EA 100 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,244.64	238.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.19	
26 09 23 00-0040 EA 200 Amp, 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	4,573.57	311.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.77	
26 09 23 00-0041 Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0042 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0043 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0044 EA 20 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	453.96	83.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.81	
26 09 23 00-0045 EA 30 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	515.71	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03	
26 09 23 00-0046 EA 60 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	952.45	145.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.16	
26 09 23 00-0047 EA 100 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,323.20	197.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.28	
26 09 23 00-0048 EA 200 Amp, 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,895.92	259.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.64	
26 09 23 00-0049 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0050 EA 20 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	488.83	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03	
26 09 23 00-0051 EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	556.09	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26	
26 09 23 00-0052 EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,020.25	166.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.61	
26 09 23 00-0053 EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,415.97	217.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.74	
26 09 23 00-0054 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	3,251.78	285.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.20	
26 09 23 00-0055 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0042)		
26 09 23 00-0056 EA 20 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	530.05	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26	
26 09 23 00-0057 EA 30 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	595.56	114.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.48	
26 09 23 00-0058 EA 60 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,187.89	186.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.06	
26 09 23 00-0059 EA 100 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,648.24	238.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.19	
26 09 23 00-0060 EA 200 Amp, 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	3,900.06	311.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.77	
26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0041)		
26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0063 EA 20 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	648.35	83.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.81	
26 09 23 00-0064 EA 30 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	744.38	93.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03	
26 09 23 00-0065 EA 60 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,409.78	145.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.16	
26 09 23 00-0066 EA 100 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,970.86	197.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.28	
26 09 23 00-0067 EA 200 Amp, 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	4,000.46	259.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.64	
26 09 23 00-0068 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		



Electrical		26
Instrumentation and Control for Electrical Systems		26 09
Lighting Control Devices		26 09 23

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 09 23 00-0069	EA 20 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	689.55		93.39	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03			
26 09 23 00-0070	EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	784.75		103.76	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26			
26 09 23 00-0071	EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,477.58		166.02	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.61			
26 09 23 00-0072	EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	2,064.07		217.89	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.74			
26 09 23 00-0073	EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	4,357.21		285.34	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	171.20			
26 09 23 00-0074	4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)				
26 09 23 00-0075	EA 20 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	733.21		103.76	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26			
26 09 23 00-0076	EA 30 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	824.22		114.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.48			
26 09 23 00-0077	EA 60 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,823.07		186.76	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.06			
26 09 23 00-0078	EA 100 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	2,473.30		238.65	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.19			
26 09 23 00-0079	EA 200 Amp, 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	5,462.82		311.28	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.77			
26 09 23 00-0080	Combination Lighting Contactors (26 09 23)				
	Note: Up to 600 volt.				
26 09 23 00-0081	Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)				
26 09 23 00-0082	NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)				
26 09 23 00-0083	3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)				
26 09 23 00-0084	EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	840.05		114.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.48			
26 09 23 00-0085	EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,320.00		182.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.57			
26 09 23 00-0086	EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,088.04		239.69	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.81			
26 09 23 00-0087	EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	3,714.70		313.87	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.32			
26 09 23 00-0088	NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)				
26 09 23 00-0089	3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)				
26 09 23 00-0090	EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,449.15		114.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.48			
26 09 23 00-0091	EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,258.73		182.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.57			
26 09 23 00-0092	EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	3,726.13		239.69	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.81			
26 09 23 00-0093	EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	5,810.11		313.87	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.32			
26 09 23 00-0094	Mechanically Held, Combination Lighting Contactors (26 09 23 00-0089)				
26 09 23 00-0095	NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)				
26 09 23 00-0096	3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0095)				
26 09 23 00-0097	EA 30 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	909.58		114.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.48			
26 09 23 00-0098	EA 60 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	1,560.70		182.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.57			
26 09 23 00-0099	EA 100 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch.....	2,316.03		239.69	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.81			

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0100 EA 200 Amp, 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,362.58 188.32	313.87
26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors ^(26 09 23 00-0094)		
26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors ^(26 09 23 00-0101)		
26 09 23 00-0103 EA 30 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,519.35 68.48	114.13
26 09 23 00-0104 EA 60 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,500.76 109.57	182.62
26 09 23 00-0105 EA 100 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,954.79 143.81	239.69
26 09 23 00-0106 EA 200 Amp, 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,457.99 188.32	313.87
26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket ^(26 09 23)		
26 09 23 00-0108 EA Photo-Cell, 105-130 Volt Relay, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.46 16.21	26.98
26 09 23 00-0109 EA Photo-Cell, 105-285 Volt Relay, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	104.65 16.21	26.98
26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) ^(26 09 23)		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	960.58 62.26	103.76
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,216.34 62.26	103.76
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,476.66 62.26	103.76
26 09 23 00-0114 Light Control Panels ^(26 09 23)		
26 09 23 00-0115 Lighting Control Panels (Watt Stopper) ^(26 09 23 00-0114)		
26 09 23 00-0116 Lighting Control Panels (Watt Stopper) ^(26 09 23 00-0115)		
26 09 23 00-0117 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,375.67 87.27	145.45
26 09 23 00-0118 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,297.77 93.51	155.84
26 09 23 00-0119 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,451.92 93.51	155.84
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,141.77 93.51	155.84
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,322.74 93.51	155.84
26 09 23 00-0122 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,523.91 87.27	145.45
26 09 23 00-0123 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,635.10 93.51	155.84
26 09 23 00-0124 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,815.90 93.51	155.84
26 09 23 00-0125 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,214.09 93.51	155.84
26 09 23 00-0126 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,395.06 93.51	155.84
26 09 23 00-0127 Accessories For Lighting Control Panels (Watt Stopper) ^(26 09 23 00-0115)		
26 09 23 00-0128 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.89 15.59	25.97
26 09 23 00-0129 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.43 12.47	20.77
26 09 23 00-0130 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.92 12.47	20.77
26 09 23 00-0131 Lighting Control Panels (Synergy) ^(26 09 23 00-0114)		
26 09 23 00-0132 Lighting Control Panels (Synergy) ^(26 09 23 00-0131)		
26 09 23 00-0133 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,517.12 93.51	155.84



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26 09 23 00-0134 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0131)		
26 09 23 00-0135 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....	362.10	25.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.59	
26 09 23 00-0136 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20)	140.51	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0137 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT)	87.52	15.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 09 23 00-0138 Lighting Switching Panels (Lutron) (26 09 23 00-0114)		
26 09 23 00-0139 Lighting Switching Panels (Lutron) (26 09 23 00-0138)		
26 09 23 00-0140 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT)	1,258.26	155.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.51	
26 09 23 00-0141 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT)	1,686.41	166.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.74	
26 09 23 00-0142 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT)	2,174.79	176.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.98	
26 09 23 00-0143 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0114)		
26 09 23 00-0144 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z)	868.41	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 09 23 00-0145 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z)	973.41	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 09 23 00-0146 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z)	1,078.41	145.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.27	
26 09 23 00-0147 Power Filters (26 09 23 00-0114)		
26 09 23 00-0148 EA 600 Amp 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17"	23,271.97	864.63
26 09 23 00-0149 EA 200 Amp 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17"	13,677.46	375.92
26 09 23 00-0150 Signal Filters (26 09 23 00-0114)		
26 09 23 00-0151 EA 0.5 Amp 125 V 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case	10,907.26	786.08
26 09 23 00-0152 EA 0.5 Amp 125 V 200 Conductor Signal Filter With 29" X 40" X 11" Case	7,423.53	480.41
26 09 23 00-0153 EA 0.5 Amp 125 V 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case	4,148.29	278.91
26 09 23 00-0154 EA 5 Amp 24 V DC 5 V 2 - 1 Pair Conductor Signal Filter With Case	5,584.47	278.91
26 09 23 00-0155 Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0156 Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0155)		
26 09 23 00-0157 Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0156)		
26 09 23 00-0158 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH)	268.03	15.59
26 09 23 00-0159 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH)	345.48	15.59
26 09 23 00-0160 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH)	432.62	15.59
26 09 23 00-0161 Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0156)		
26 09 23 00-0162 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH)	268.03	15.59
26 09 23 00-0163 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH)	316.44	15.59
26 09 23 00-0164 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH)	432.62	15.59
26 09 23 00-0165 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH)	268.03	15.59
26 09 23 00-0166 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH)	345.48	15.59
26 09 23 00-0167 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH)	432.62	15.59
26 09 23 00-0168 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0156)		
26 09 23 00-0169 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH)	345.48	15.59
26 09 23 00-0170 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH)	432.62	15.59
26 09 23 00-0171 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH)	432.62	15.59
26 09 23 00-0172 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter (26 09 23 00-0156)		

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26 09 23 00-0173 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH)	268.03	15.59
26 09 23 00-0174 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH)	345.48	15.59
26 09 23 00-0175 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH)	316.44	15.59
26 09 23 00-0176 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH)	384.21	15.59
26 09 23 00-0177 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH)	345.48	15.59
26 09 23 00-0178 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH)	413.26	15.59
26 09 23 00-0179 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH)	345.48	15.59
26 09 23 00-0180 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter (26 09 23 00-0156)		
26 09 23 00-0181 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH)	268.03	15.59
26 09 23 00-0182 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH)	345.48	15.59
26 09 23 00-0183 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH)	345.48	15.59
26 09 23 00-0184 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH)	432.62	15.59
26 09 23 00-0185 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH)	345.48	15.59
26 09 23 00-0186 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	432.62	15.59
26 09 23 00-0187 Output Switch Closure Controls, Tabletop Wireless Transmitter (26 09 23 00-0156)		
26 09 23 00-0188 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH)	268.03	15.59
26 09 23 00-0189 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH)	345.48	15.59
26 09 23 00-0190 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C2C4-WH)	432.62	15.59
26 09 23 00-0191 Accessories For Tabletop Wireless Transmitter (26 09 23 00-0156)		
26 09 23 00-0192 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH)	64.70	15.59
26 09 23 00-0193 Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0155)		
26 09 23 00-0194 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH)	248.66	15.59
26 09 23 00-0195 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH)	268.03	15.59
26 09 23 00-0196 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH)	268.03	15.59
26 09 23 00-0197 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH)	268.03	15.59
26 09 23 00-0198 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH)	268.03	15.59
26 09 23 00-0199 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH)	268.03	15.59
26 09 23 00-0200 Interfaces For Radio Controlled Devices (26 09 23 00-0155)		
26 09 23 00-0201 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	248.66	15.59
26 09 23 00-0202 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000)	248.66	15.59
26 09 23 00-0203 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000)	248.66	15.59
26 09 23 00-0204 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8)	494.59	15.59
26 09 23 00-0205 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232)	703.72	15.59
26 09 23 00-0206 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI)	703.72	15.59
26 09 23 00-0207 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0155)		
26 09 23 00-0208 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW)	316.44	15.59
26 09 23 00-0209 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F)	355.16	15.59
26 09 23 00-0210 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC)	413.26	15.59
26 09 23 00-0211 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0155)		
26 09 23 00-0212 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC)	461.67	15.59
26 09 23 00-0213 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC)	631.11	15.59
26 09 23 00-0214 Occupancy Sensors (Watt Stopper) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0215 Occupancy Sensors (26 09 23 00-0214)		
Note: Exclude boxes.		



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26 09 23 00-0216 Wall Switch Mounted Occupancy Sensors (26 09 23 00-0215)		
26 09 23 00-0217 Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0216)		
26 09 23 00-0218 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....	96.93	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0219 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200).....	113.79	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0220 Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0216)		
26 09 23 00-0221 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100).....	80.62	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0222 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS).....	75.51	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0223 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100).....	85.05	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0224 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WI-200).....	104.77	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0225 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	97.95	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0226 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD).....	96.88	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0227 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0216)		
26 09 23 00-0228 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	139.47	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0229 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200).....	150.14	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0230 Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0216)		
26 09 23 00-0231 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	6.22	2.60
26 09 23 00-0232 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.07	2.60
26 09 23 00-0233 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	7.07	2.60
26 09 23 00-0234 Ceiling Mounted Occupancy Sensors (26 09 23 00-0215)		
26 09 23 00-0235 Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0234)		
26 09 23 00-0236 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0235)		
26 09 23 00-0237 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	131.18	23.37
26 09 23 00-0238 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	149.52	23.37
26 09 23 00-0239 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	168.00	23.37
26 09 23 00-0240 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H).....	166.33	23.37
26 09 23 00-0241 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0235)		
26 09 23 00-0242 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605).....	142.04	23.37
26 09 23 00-0243 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	160.64	23.37
26 09 23 00-0244 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	178.26	23.37
26 09 23 00-0245 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	181.24	23.37
26 09 23 00-0246 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0235)		
26 09 23 00-0247 EA 600 SF 360 Degree Coverage, Panel Integrating, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WP-605).....	150.76	23.37
26 09 23 00-0248 EA 1,100 SF 360 Degree Coverage, Panel Integrating, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WP-1105).....	170.76	23.37
26 09 23 00-0249 EA 2,200 SF 360 Degree Coverage, Panel Integrating, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WP-2205).....	190.76	23.37
26 09 23 00-0250 EA 90 LF Hallway Coverage, Panel Integrating, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WP-2255).....	190.76	23.37
26 09 23 00-0251 EA 600 SF 360 Degree Coverage, Isolated Relay, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	153.16	23.37
26 09 23 00-0252 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100).....	172.22	23.37
26 09 23 00-0253 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200).....	191.22	23.37
26 09 23 00-0254 EA 90 LF Hallway Coverage, Isolated Relay, 35 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	196.69	23.37
26 09 23 00-0255 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0235)		
26 09 23 00-0256 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	147.41	23.37

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26 09 23 00-0257	EA	1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	169.64	23.37
26 09 23 00-0258	EA	2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	188.25	23.37
26 09 23 00-0259	EA	500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	139.22	23.37
26 09 23 00-0260	EA	1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	167.24	23.37
26 09 23 00-0261	EA	2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	176.31	23.37
26 09 23 00-0262	EA	500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	148.57	23.37
26 09 23 00-0263	EA	1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	164.70	23.37
26 09 23 00-0264	EA	2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	184.61	23.37
26 09 23 00-0265 Passive Infrared, Ceiling Mounted Occupancy Sensors (26 09 23 00-0234)				
26 09 23 00-0266	EA	30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	109.77	23.37
26 09 23 00-0267	EA	HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	111.93	23.37
26 09 23 00-0268	EA	Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	117.07	23.37
26 09 23 00-0269	EA	Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	130.83	23.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 09 23 00-0270	EA	Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	132.50	23.37
26 09 23 00-0271	EA	Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	139.71	23.37
26 09 23 00-0272	EA	Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	151.24	23.37
26 09 23 00-0273 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0234)				
26 09 23 00-0274	EA	1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	178.10	23.37
26 09 23 00-0275	EA	1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	202.50	23.37
26 09 23 00-0276	EA	1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	172.93	23.37
26 09 23 00-0277 Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0215)				
26 09 23 00-0278 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0277)				
26 09 23 00-0279	EA	120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	217.11	23.37
26 09 23 00-0280	EA	2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	217.11	23.37
26 09 23 00-0281 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0277)				
26 09 23 00-0282	EA	2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	202.50	23.37
26 09 23 00-0283 Occupancy Sensor Power Packs (26 09 23 00-0214)				
26 09 23 00-0284 Single Voltage, Occupancy Sensor Power Packs (26 09 23 00-0283)				
26 09 23 00-0285	EA	220 - 240 Volt AC, 20 Amp, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	75.66	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	
26 09 23 00-0286	EA	347 Volt AC, 15 Amp, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	69.47	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	
26 09 23 00-0287 Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0283)				
26 09 23 00-0288	EA	120, 277 Or 347 Volt AC, 20 Amp, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	64.37	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	
26 09 23 00-0289 Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0283)				
26 09 23 00-0290	EA	120/277 Volt AC, 20 Amp, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	83.05	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	
26 09 23 00-0291 Form C, Occupancy Sensor Power Packs (26 09 23 00-0283)				
26 09 23 00-0292	EA	120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	75.95	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	
26 09 23 00-0293	EA	277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	76.00	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	
26 09 23 00-0294 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0283)				
26 09 23 00-0295	EA	120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	93.90	20.77
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.47	



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26 09 23 00-0296 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.13 12.47	20.77
26 09 23 00-0297 Occupancy Sensor Power Supplies (26 09 23 00-0283)		
26 09 23 00-0298 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-120) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.52 12.47	20.77
26 09 23 00-0299 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	184.69 12.47	20.77
26 09 23 00-0300 Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0283)		
26 09 23 00-0301 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100)	242.27	20.77
26 09 23 00-0302 DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0283)		
26 09 23 00-0303 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100)	82.34	20.77
26 09 23 00-0304 Occupancy Sensor Accessories (26 09 23 00-0214)		
26 09 23 00-0305 Protective Cages For Occupancy Sensors (26 09 23 00-0304)		
26 09 23 00-0306 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	46.01	7.79
26 09 23 00-0307 Mounting Brackets For Occupancy Sensors (26 09 23 00-0304)		
26 09 23 00-0308 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB)..... <i>Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.</i>	38.12	12.99
26 09 23 00-0309 Occupancy/Lighting Logger (26 09 23 00-0304) <i>Note: Logs when a space is occupied/vacant and when lighting is on/off.</i>		
26 09 23 00-0310 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	337.25	44.16
26 09 23 00-0311 Remove And Reinstall Occupancy Sensors (26 09 23 00-0304)		
26 09 23 00-0312 EA Removal And Reinstallation Of Surface Mounted Occupancy Sensor..... <i>Note: Includes storing and cleaning.</i>	70.13	
26 09 23 00-0313 EA Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor <i>Note: Includes storing and cleaning.</i>	31.17	
26 09 23 00-0314 Digital Time Light Switches (26 09 23 00-0214)		
26 09 23 00-0315 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	73.09	10.39
26 09 23 00-0316 Occupancy Sensors (Sensor Switch) (26 09 23) <i>Note: Includes testing of new devices and certification.</i>		
26 09 23 00-0317 Occupancy Sensors (Sensor Switch) (26 09 23 00-0316) <i>Note: Exclude boxes</i>		
26 09 23 00-0318 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0317)		
26 09 23 00-0319 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0318)		
26 09 23 00-0320 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	103.27	10.39
26 09 23 00-0321 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.77 6.23	10.39
26 09 23 00-0322 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD)	72.75	10.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.23	
26 09 23 00-0323 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	72.75	10.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.23	
26 09 23 00-0324 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.52 6.23	10.39
26 09 23 00-0325 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	89.52	10.39
26 09 23 00-0326 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	106.71	10.39
26 09 23 00-0327 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD)	89.52	10.39
26 09 23 00-0328 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0318) <i>Note: Includes passive infrared and microphonics detection</i>		
26 09 23 00-0329 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	130.77	10.39
26 09 23 00-0330 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.27 6.23	10.39
26 09 23 00-0331 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	101.21	10.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.23	

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26 09 23 00-0332 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA).....	101.21	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0333 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P).....	117.02	10.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 09 23 00-0334 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT).....	117.02	10.39
26 09 23 00-0335 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P).....	125.27	10.39
26 09 23 00-0336 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0318)		
26 09 23 00-0337 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....	10.70	2.60
26 09 23 00-0338 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	10.70	2.60
26 09 23 00-0339 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3).....	18.95	2.60
26 09 23 00-0340 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	18.95	2.60
26 09 23 00-0341 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0317)		
26 09 23 00-0342 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0341)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0343 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9).....	129.26	23.37
26 09 23 00-0344 EA Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9).....	129.26	23.37
26 09 23 00-0345 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9).....	129.26	23.37
26 09 23 00-0346 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9).....	136.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0347 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9).....	136.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0348 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9).....	114.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0349 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....	163.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0350 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	163.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0351 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	141.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0352 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	129.26	23.37
26 09 23 00-0353 EA Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	129.26	23.37
26 09 23 00-0354 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	129.26	23.37
26 09 23 00-0355 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	136.14	23.37
26 09 23 00-0356 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	136.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0357 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10).....	114.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0358 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	163.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0359 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	163.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0360 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	141.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0361 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0341)		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0362 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	156.76	23.37
26 09 23 00-0363 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	156.76	23.37
26 09 23 00-0364 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	156.76	23.37
26 09 23 00-0365 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	149.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	



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26 09 23 00-0366 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	149.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0367 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	127.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0368 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	177.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0369 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	177.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0370 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	155.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0371 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	156.76	23.37
26 09 23 00-0372 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	156.76	23.37
26 09 23 00-0373 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	156.76	23.37
26 09 23 00-0374 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	149.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0375 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	149.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0376 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	127.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0377 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	177.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0378 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	177.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0379 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	155.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0380 Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0317)		
26 09 23 00-0381 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0380)		
26 09 23 00-0382 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	129.26	23.37
26 09 23 00-0383 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	143.01	23.37
26 09 23 00-0384 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	170.51	23.37
26 09 23 00-0385 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	163.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0386 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	191.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0387 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0380)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0388 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	156.76	23.37
26 09 23 00-0389 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	177.38	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0390 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	204.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0391 High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0317)		
26 09 23 00-0392 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0391)		
26 09 23 00-0393 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	129.26	23.37
26 09 23 00-0394 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	129.26	23.37
26 09 23 00-0395 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	129.26	23.37
26 09 23 00-0396 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	114.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0397 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	114.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0398 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	114.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	

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26 09 23 00-0399 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P)	141.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0400 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P)	141.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0401 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P)	141.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0402 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208)	123.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0403 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208)	123.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0404 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208)	123.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0405 EA 480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480)	123.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0406 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480)	123.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0407 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480)	123.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0408 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50)	143.01	23.37
26 09 23 00-0409 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50)	143.01	23.37
26 09 23 00-0410 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50)	143.01	23.37
26 09 23 00-0411 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50)	169.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0412 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50)	169.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0413 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50)	169.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0414 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P)	151.26	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0415 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P)	151.26	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0416 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208)	130.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0417 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208)	130.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0418 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480)	130.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0419 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480)	130.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0420 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10)	143.01	23.37
26 09 23 00-0421 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10)	143.01	23.37
26 09 23 00-0422 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10)	169.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0423 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10)	169.14	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0424 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P)	163.64	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0425 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480)	149.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0426 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208)	149.88	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0427 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0316)		
26 09 23 00-0428 EA Single Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20)	80.06	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0429 EA 2-Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P)	107.56	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0430 EA Single Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20)	66.31	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0431 EA 2-Pole, 20 Amp, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20)	62.18	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0432 EA 20 Amp, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20)	75.94	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0433 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH)	110.31	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0434 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR)	110.31	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0435 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM)	110.31	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.47	
26 09 23 00-0436 Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0316)		
26 09 23 00-0437 Remove And Reinstall Occupancy Sensors (26 09 23 00-0436)		
26 09 23 00-0438 EA Removal And Reinstallation Of Wall Switch Mounted Occupancy Sensor	31.17	
Note: Includes storing and cleaning.		
26 09 23 00-0439 EA Removal And Reinstallation Of Surface Mounted Occupancy Sensor.....	70.13	
Note: Includes storing and cleaning.		
26 09 23 00-0440 Daylighting Control (Sensor Switch) (26 09 23 00-0316)		
26 09 23 00-0441 EA Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC)	115.51	23.37
26 09 23 00-0442 EA Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC)	115.51	23.37
26 09 23 00-0443 EA Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC)	115.51	23.37
26 09 23 00-0444 EA Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC)	115.51	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0445 EA Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC)	115.51	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0446 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC)	115.51	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0447 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC)	115.51	23.37
26 09 23 00-0448 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC)	115.51	23.37
26 09 23 00-0449 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC)	115.51	23.37
26 09 23 00-0450 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC)	115.51	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0451 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC)	115.51	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0452 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC)	115.51	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0453 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC)	156.76	23.37
26 09 23 00-0454 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC)	156.76	23.37
26 09 23 00-0455 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC)	156.76	23.37
26 09 23 00-0456 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC)	156.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0457 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC)	156.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0458 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC)	156.76	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.03	
26 09 23 00-0459 Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0460 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0459)		
Note: Excludes boxes.		
26 09 23 00-0461 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0460)		
26 09 23 00-0462 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0461)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0463 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX)	178.36	10.39
26 09 23 00-0464 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0460)		
26 09 23 00-0465 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0464)		
Note: One photocell or dimming option per occupancy sensor		

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26 09 23 00-0466 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	219.93	23.37
26 09 23 00-0467 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	219.93	23.37
26 09 23 00-0468 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	219.93	23.37
26 09 23 00-0469 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0464) Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0470 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	254.56	23.37
26 09 23 00-0471 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	254.56	23.37
26 09 23 00-0472 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	263.21	23.37
26 09 23 00-0473 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0460)		
26 09 23 00-0474 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0473) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0475 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	254.56	23.37
26 09 23 00-0476 High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0460)		
26 09 23 00-0477 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0476)		
26 09 23 00-0478 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	219.93	23.37
26 09 23 00-0479 Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0459)		
26 09 23 00-0480 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	84.85	20.77
26 09 23 00-0481 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	102.18	20.77
26 09 23 00-0482 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	131.61	20.77
26 09 23 00-0483 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	131.61	20.77
26 09 23 00-0484 Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0459)		
26 09 23 00-0485 EA RS232 AV Integrator (Sensor Switch nLight® nIO X)	263.21	23.37
26 09 23 00-0486 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	349.82	23.37
26 09 23 00-0487 Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0459)		
26 09 23 00-0488 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	185.29	23.37
26 09 23 00-0489 Controls (Sensor Switch nLight®) (26 09 23 00-0459)		
26 09 23 00-0490 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	128.15	23.37
26 09 23 00-0491 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB)	176.65	23.37
26 09 23 00-0492 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	384.44	23.37
26 09 23 00-0493 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	384.44	23.37
26 09 23 00-0494 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	1,388.81	23.37
26 09 23 00-0495 Occupancy Sensors (Lutron) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0496 Wireless Occupancy Sensors (26 09 23 00-0495)		
26 09 23 00-0497 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH).....	99.46	23.37
26 09 23 00-0498 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	100.30	23.37
26 09 23 00-0499 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	104.98	23.37
26 09 23 00-0500 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	101.35	23.37
26 09 23 00-0501 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	104.98	23.37
26 09 23 00-0502 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	99.46	23.37
26 09 23 00-0503 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	101.35	23.37
26 09 23 00-0504 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	100.30	23.37
26 09 23 00-0505 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	144.40	23.37



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0506	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	152.80	23.37
26 09 23 00-0507	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	171.70	23.37
26 09 23 00-0508	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	180.10	23.37
26 09 23 00-0509	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	184.30	23.37
26 09 23 00-0510	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	192.70	23.37
26 09 23 00-0511	EA	Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH)	117.94	23.37
26 09 23 00-0512	EA	Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH)	123.40	23.37
26 09 23 00-0513	EA	Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH).....	141.25	23.37
26 09 23 00-0514	EA	Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	154.90	23.37
26 09 23 00-0515	EA	Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	165.40	23.37
26 09 23 00-0516	EA	Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	145.45	23.37
26 09 23 00-0517		Nodes And Modules (26 09 23 00-0495)		
26 09 23 00-0518	EA	0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	149.65	23.37
26 09 23 00-0519	EA	0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	149.65	23.37
26 09 23 00-0520	EA	4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	184.30	23.37
26 09 23 00-0521	EA	4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	184.30	23.37
26 09 23 00-0522	EA	120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	232.54	25.97
26 09 23 00-0523	EA	120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	232.54	25.97
26 09 23 00-0524	EA	120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH)	277.69	25.97
26 09 23 00-0525	EA	120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH)	283.99	25.97
26 09 23 00-0526	EA	120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	345.94	25.97
26 09 23 00-0527	EA	120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH)	365.89	25.97
26 09 23 00-0528	EA	120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	385.84	25.97
26 09 23 00-0529	EA	1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	1,020.24	41.56
26 09 23 00-0530	EA	2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,007.01	46.76
26 09 23 00-0531	EA	3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	1,463.64	51.95
26 09 23 00-0532		Other Accessories (26 09 23 00-0495)		
26 09 23 00-0533	EA	Pico® Wireless Control Wallplate Adapter (Lutron® PJ)	31.30	
26 09 23 00-0534	EA	Pico® Wireless Control (Lutron® PJ)	28.54	
26 09 23 00-0535	EA	4-Scene Wireless Remote Control (Lutron® GRX-IT-WH)	77.64	
26 09 23 00-0536	EA	8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH)	150.09	
26 09 23 00-0537	EA	4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	178.24	23.37
26 09 23 00-0538	EA	seeTouch® QS Wallstation (Lutron® QSWS2)	220.80	23.37
26 09 23 00-0539	EA	seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2)	220.80	23.37
26 09 23 00-0540	EA	120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S)	352.24	25.97
26 09 23 00-0541	EA	120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S)	475.09	25.97
26 09 23 00-0542	EA	Control Interface (Lutron® QSE-CI-NWK-E).....	565.45	23.37
26 09 23 00-0543	EA	1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	561.26	23.37
26 09 23 00-0544	EA	2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S)	745.01	23.37
26 09 23 00-0545	MLF	5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	1,767.62	726.32
26 09 23 00-0546	MLF	5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	2,187.62	726.32
26 09 23 00-0547		Fixture Mounted Occupancy Sensors (Leviton) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0548	EA	120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW)	96.10	23.37
26 09 23 00-0549	EA	480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W)	86.44	23.37
26 09 23 00-0550	EA	120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW)	104.08	23.37
26 09 23 00-0551	EA	480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W)	86.44	23.37
26 09 23 00-0552		Wireless Enabled Communication Devices For Streetlights (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0553		Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0552)		
26 09 23 00-0554		Wireless Enabled Communication Nodes For Streetlights (Roam®) (26 09 23 00-0553) Note: 2.4GHz wireless enabled communication node for wireless remote on/off, group scheduling, photocontrol and diagnostics.		
26 09 23 00-0555	EA	120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	183.93	
26 09 23 00-0556	EA	480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	253.19	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0557 Wireless Enabled Communication Devices For Streetlights (Roam®) ^(26 09 23 00-0553)		
26 09 23 00-0558 EA Retrofit Receptacle Kit (Roam® DUR103)	40.21	
Note: For adapting light fixtures for use with a NEMA locking type photocontrol.		
26 09 23 00-0559 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	7,039.04	56.16
26 09 23 00-0560 Consoles ^(26 09 23)		
26 09 23 00-0561 EA 20" x 24" Type 12, Oil Tight Consolelets, Counter Mounted (Schaefer's SPCL-20C24)	444.45	129.70
26 09 23 00-0562 Emergency Lighting Controls ^(26 09 23)		
26 09 23 00-0563 Emergency Lighting Control Units (Watt Stopper ELCU) ^(26 09 23 00-0562)		
Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0564 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	169.47	25.97
26 09 23 00-0565 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	169.47	25.97
26 09 23 00-0566 Emergency Shunt Relays (Lighting Control & Design GR 2001™) ^(26 09 23 00-0562)		
Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0567 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	229.16	36.36
26 09 23 00-0568 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	306.52	41.56
26 09 23 00-0569 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual)	406.37	46.76
Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0570 Photocells ^(26 09 23)		
26 09 23 00-0571 EA Plug-In Photocell For Lighting Fixtures	69.43	
26 09 23 00-0572 EA Wired Photocell For Lighting Fixtures	177.12	

26 10 Medium-Voltage Electrical Distribution ⁽²⁶⁾**26 11 Substations** ^(26 10)**26 11 13 Primary Unit Substations** ^(26 11)**26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section** ^(26 11 13)**26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard"** ^(26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation	29,141.14	1,779.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,085.81	
26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation	35,788.38	2,250.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,357.27	
26 11 13 00-0005 EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation	40,254.68	2,250.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,357.27	
26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation	46,107.58	2,250.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,447.75	
26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amp, "Switchyard" Substation	52,354.24	2,773.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,670.48	

26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers ^(26 11 13 00-0001)

26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179	933.23	189.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.34	
26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N	359.34	137.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.92	
26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67	507.83	137.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.35	
26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase	403.40	137.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.92	
26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87	1,509.71	464.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.66	

26 11 13 00-0014 "Switchyard", Substation Transformer Section ^(26 11 13)

Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range

26 11 13 00-0015 14.4 KV Nominal Primary ^(26 11 13 00-0014)



Electrical		26
Medium-Voltage Electrical Distribution		26 10
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	17,521.32	1,779.16
For 50 Hz Operation, Add	1,668.23	
For Forced Air Cooling, Add	1,668.23	
For External Control Panel, Add	417.06	
For Internally Mounted Current Transformers And Linear Couplers, Add	139.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	695.10	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	1,737.74	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	2,085.29	
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	20,218.93	2,229.18
For 50 Hz Operation, Add	1,883.37	
For Forced Air Cooling, Add	1,883.37	
For External Control Panel, Add	470.84	
For Internally Mounted Current Transformers And Linear Couplers, Add	156.95	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	784.74	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	1,961.84	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	2,354.21	
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	30,856.18	3,139.70
For 50 Hz Operation, Add	2,930.61	
For Forced Air Cooling, Add	2,930.61	
For External Control Panel, Add	732.65	
For Internally Mounted Current Transformers And Linear Couplers, Add	244.22	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,221.09	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,052.72	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,663.26	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	43,996.75	3,702.11
For 50 Hz Operation, Add	4,321.42	
For Forced Air Cooling, Add	4,321.42	
For External Control Panel, Add	1,080.35	
For Internally Mounted Current Transformers And Linear Couplers, Add	360.12	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,800.59	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,501.48	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,401.77	
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	54,271.61	4,790.96
For 50 Hz Operation, Add	5,314.85	
For Forced Air Cooling, Add	5,314.85	
For External Control Panel, Add	1,328.71	
For Internally Mounted Current Transformers And Linear Couplers, Add	442.90	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,214.52	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,536.31	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,643.57	
26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	19,816.71	2,407.11
For 50 Hz Operation, Add	1,835.10	
For External Control Panel, Add	458.77	
For Internally Mounted Current Transformers And Linear Couplers, Add	152.92	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	764.62	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	1,911.56	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	2,293.87	
For Forced Air Cooling, Add	1,223.40	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	22,767.85	2,407.11
For 50 Hz Operation, Add	2,076.56	
For External Control Panel, Add	519.14	
For Internally Mounted Current Transformers And Linear Couplers, Add	173.05	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	865.23	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	2,163.08	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	2,595.70	
For Forced Air Cooling, Add	1,384.37	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	35,799.78	3,558.32
For 50 Hz Operation, Add	3,427.32	
For External Control Panel, Add	856.83	
For Internally Mounted Current Transformers And Linear Couplers, Add	285.61	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,428.05	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,570.13	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,284.15	
For Forced Air Cooling, Add	2,284.88	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	48,062.66	4,790.96
For 50 Hz Operation, Add	4,569.78	
For External Control Panel, Add	1,142.44	
For Internally Mounted Current Transformers And Linear Couplers, Add	380.81	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,904.07	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,760.19	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,712.22	
For Forced Air Cooling, Add	3,046.52	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	58,410.91	4,790.96
For 50 Hz Operation, Add	5,811.57	
For External Control Panel, Add	1,452.89	
For Internally Mounted Current Transformers And Linear Couplers, Add	484.30	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,421.49	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,053.72	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,264.46	
For Forced Air Cooling, Add	3,874.38	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	24,780.01	2,878.06
For 50 Hz Operation, Add	2,318.02	
For External Control Panel, Add	579.50	
For Internally Mounted Current Transformers And Linear Couplers, Add	193.17	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	965.84	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	2,414.60	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	2,897.52	
For Forced Air Cooling, Add	1,545.34	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	29,921.80	4,500.24
For 50 Hz Operation, Add	2,800.93	
For External Control Panel, Add	700.23	
For Internally Mounted Current Transformers And Linear Couplers, Add	233.41	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,167.06	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	2,917.64	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	3,501.17	
For Forced Air Cooling, Add	1,867.29	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	41,335.06	4,500.24
For 50 Hz Operation, Add	3,874.39	
For External Control Panel, Add	968.60	
For Internally Mounted Current Transformers And Linear Couplers, Add	322.87	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,614.33	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,035.83	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,842.99	
For Forced Air Cooling, Add	2,582.93	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	52,201.94	4,682.08
For 50 Hz Operation, Add	5,066.49	
For External Control Panel, Add	1,266.62	
For Internally Mounted Current Transformers And Linear Couplers, Add	422.21	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,111.04	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,277.60	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,333.12	
For Forced Air Cooling, Add	3,377.66	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	88,111.09	5,988.70
For 50 Hz Operation, Add	9,040.22	
For External Control Panel, Add	2,260.06	
For Internally Mounted Current Transformers And Linear Couplers, Add	753.35	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,766.76	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,416.90	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,300.28	
For Forced Air Cooling, Add	6,026.82	
26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	37,138.69	3,349.01
For 50 Hz Operation, Add	3,666.96	
For External Control Panel, Add	916.74	
For Internally Mounted Current Transformers And Linear Couplers, Add	305.58	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,527.90	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,819.75	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,583.70	
For Forced Air Cooling, Add	2,444.64	
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	41,882.83	3,349.01
For 50 Hz Operation, Add	4,157.29	
For External Control Panel, Add	1,039.32	
For Internally Mounted Current Transformers And Linear Couplers, Add	346.44	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,732.20	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,330.51	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,196.61	
For Forced Air Cooling, Add	2,771.53	
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	57,548.69	4,500.24
For 50 Hz Operation, Add	5,820.03	
For External Control Panel, Add	1,455.01	
For Internally Mounted Current Transformers And Linear Couplers, Add	485.00	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,425.01	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,062.53	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,275.04	
For Forced Air Cooling, Add	3,880.02	
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	71,054.64	5,988.70
For 50 Hz Operation, Add	6,993.45	
For External Control Panel, Add	1,748.36	
For Internally Mounted Current Transformers And Linear Couplers, Add	582.79	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,913.94	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,284.84	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,741.81	
For Forced Air Cooling, Add	4,662.30	
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	98,484.98	5,988.70
For 50 Hz Operation, Add	10,285.09	
For External Control Panel, Add	2,571.27	
For Internally Mounted Current Transformers And Linear Couplers, Add	857.09	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,285.45	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,713.64	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,856.36	
For Forced Air Cooling, Add	6,856.73	

26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)



		Electrical	26
		Medium-Voltage Electrical Distribution	26 10
		Substations	26 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	52,389.88 5,418.14 1,354.53 451.51 2,257.56 5,643.89 6,772.67 3,612.09	3,558.32
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	60,523.70 6,177.03 1,544.26 514.75 2,573.76 6,434.41 7,721.29 4,118.02	4,500.24
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	81,553.99 8,700.67 2,175.17 725.06 3,625.28 9,063.19 10,875.83 5,800.44	4,500.24
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	87,810.11 9,004.11 2,251.03 750.34 3,751.71 9,379.28 11,255.13 6,002.74	5,988.70
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air Cooling, Add	113,140.12 12,043.71 3,010.93 1,003.64 5,018.21 12,545.53 15,054.63 8,029.14	5,988.70
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)		
26 11 13 00-0046 EA 1,200 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	30,191.99	846.65
26 11 13 00-0047 EA 1,200 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	33,064.01	846.65
26 11 13 00-0048 EA 1,200 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	37,734.24	1,051.68
26 11 13 00-0049 EA 2,000 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	35,573.61	1,264.60
26 11 13 00-0050 EA 2,000 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	39,912.39	1,264.60
26 11 13 00-0051 EA 2,000 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	45,561.22	1,469.19
26 11 13 00-0052 EA 3,000 Amp, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	47,137.06	1,678.55
26 11 13 00-0053 EA 3,000 Amp, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	52,539.09	1,678.55
26 11 13 00-0054 EA 3,000 Amp, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	55,197.11	1,885.02
26 11 16 Secondary Unit Substations (26 11)		
26 11 16 00-0001 Substation Primary Incoming Section (26 11 16)		
26 11 16 00-0002 Manual Transferring Fused Load Break Switches (26 11 16 00-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 00-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position.....	21,560.40	1,243.28
26 11 16 00-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position	24,749.42	1,243.28
26 11 16 00-0005 Automatic Transferring Fused Load Break Switches (26 11 16 00-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 00-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position Selector Switch.....	30,360.56	1,243.28
26 11 16 00-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amp, 3 Pole, 2 Position Selector Switch.....	32,436.00	1,243.28
26 11 16 00-0008 Accessories For Substation Fused Load Break Switches (26 11 16 00-0001)		
26 11 16 00-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section	5,127.58	
26 11 16 00-0010 EA Key Interlock Accessories, Secondary Distribution Section	499.10	
26 11 16 00-0011 Oil Filled Substation Transformers (26 11 16) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 00-0012 Substation, Primary 13.8 KV Secondary 480Y/277 V Or 480 V 60 HZ (26 11 16 00-0011)		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	9,942.75	732.60
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	593.43	
For Control Power Transformer On Fans And Auxiliary, Add	254.33	
For Internal Mounted Current Transformer And Linear Coupler, Add	84.78	
26 11 16 00-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	14,232.22	784.92
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	886.37	
For Control Power Transformer On Fans And Auxiliary, Add	379.87	
For Internal Mounted Current Transformer And Linear Coupler, Add	126.62	
26 11 16 00-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	16,025.81	837.26
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,004.59	
For Control Power Transformer On Fans And Auxiliary, Add	430.54	
For Internal Mounted Current Transformer And Linear Coupler, Add	143.51	
26 11 16 00-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	18,690.57	889.58
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,183.80	
For Control Power Transformer On Fans And Auxiliary, Add	507.34	
For Internal Mounted Current Transformer And Linear Coupler, Add	169.11	
26 11 16 00-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	20,573.64	941.90
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,308.29	
For Control Power Transformer On Fans And Auxiliary, Add	560.69	
For Internal Mounted Current Transformer And Linear Coupler, Add	186.90	
26 11 16 00-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	21,717.87	994.24
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,381.06	
For Control Power Transformer On Fans And Auxiliary, Add	591.88	
For Internal Mounted Current Transformer And Linear Coupler, Add	197.29	
26 11 16 00-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	25,104.20	2,250.11
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,610.77	
For Control Power Transformer On Fans And Auxiliary, Add	690.33	
For Internal Mounted Current Transformer And Linear Coupler, Add	230.11	
26 11 16 00-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	26,820.90	1,177.39
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,712.63	
For Control Power Transformer On Fans And Auxiliary, Add	733.98	
For Internal Mounted Current Transformer And Linear Coupler, Add	244.66	
26 11 16 00-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	29,897.44	1,255.88
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,917.00	
For Control Power Transformer On Fans And Auxiliary, Add	821.57	
For Internal Mounted Current Transformer And Linear Coupler, Add	273.86	
26 11 16 00-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	34,531.60	1,360.53
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,226.74	
For Control Power Transformer On Fans And Auxiliary, Add	954.32	
For Internal Mounted Current Transformer And Linear Coupler, Add	318.11	
26 11 16 00-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	37,886.48	1,465.19
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,446.93	
For Control Power Transformer On Fans And Auxiliary, Add	1,048.68	
For Internal Mounted Current Transformer And Linear Coupler, Add	349.56	
26 11 16 00-0024 Substation, Primary 13.8 KV Secondary 208Y/120 V 60 HZ (26 11 16 00-0011)		
26 11 16 00-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	9,519.82	732.60
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	563.82	
For Control Power Transformer On Fans And Auxiliary, Add	241.64	
For Internal Mounted Current Transformer And Linear Coupler, Add	80.55	
26 11 16 00-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	14,095.07	784.92
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	876.77	
For Control Power Transformer On Fans And Auxiliary, Add	375.76	
For Internal Mounted Current Transformer And Linear Coupler, Add	125.25	
26 11 16 00-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	16,016.45	837.26
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,003.94	
For Control Power Transformer On Fans And Auxiliary, Add	430.26	
For Internal Mounted Current Transformer And Linear Coupler, Add	143.42	
26 11 16 00-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	18,706.67	889.58
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,184.93	
For Control Power Transformer On Fans And Auxiliary, Add	507.83	
For Internal Mounted Current Transformer And Linear Coupler, Add	169.28	
26 11 16 00-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	22,217.06	941.90
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,423.33	
For Control Power Transformer On Fans And Auxiliary, Add	610.00	
For Internal Mounted Current Transformer And Linear Coupler, Add	203.33	
26 11 16 00-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	23,764.23	994.24
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,524.30	
For Control Power Transformer On Fans And Auxiliary, Add	653.27	
For Internal Mounted Current Transformer And Linear Coupler, Add	217.76	
26 11 16 00-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	26,049.13	1,046.56
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,676.92	
For Control Power Transformer On Fans And Auxiliary, Add	718.68	
For Internal Mounted Current Transformer And Linear Coupler, Add	239.56	
26 11 16 00-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	28,448.63	1,177.39
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,826.57	
For Control Power Transformer On Fans And Auxiliary, Add	782.82	
For Internal Mounted Current Transformer And Linear Coupler, Add	260.94	
26 11 16 00-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	32,002.34	1,255.88
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,064.34	
For Control Power Transformer On Fans And Auxiliary, Add	884.72	
For Internal Mounted Current Transformer And Linear Coupler, Add	294.91	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 11 16 00-0034	Accessories For Oil Filled Substation Transformers (26 11 16 00-0011)			
26 11 16 00-0035	EA Sudden Pressure Relay.....	2,569.52		
26 11 16 00-0036	EA Throats Or Flanges (HV Or LV)	5,101.36		
26 11 16 00-0037	EA Lightning Arrestors (3 - 1 Pole)	3,359.05		
26 11 16 00-0038	EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X)	18,641.04		
26 11 16 00-0039	EA Oil Fuse Cutout, 15 KV, 200 Amp, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	17,440.55		
26 11 16 00-0040	Reinforced Concrete Curb With 6" Slab (26 11 16 00-0011)			
Note: For transformer liquid containment area.				
26 11 16 00-0041	EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0042	EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0043	EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0044	EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0045	EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0046	EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0047	EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	3,383.62		1,036.38
26 11 16 00-0048	EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid	3,930.79		1,194.96
26 11 16 00-0049	Dry Type Substation Transformer (26 11 16)			
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.				
26 11 16 00-0050	Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 V (26 11 16 00-0049)			
Note: Primary 4.160 or 4.8 KV (delta or wye).				
26 11 16 00-0051	EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	16,977.19		837.26
	For Gas Filled Transformers, Add	9,181.61		
	For Single Phase Transformers, Deduct	-382.57		
	For Dry Type Unit, Add	3,534.04		
26 11 16 00-0052	EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,081.85		889.58
	For Gas Filled Transformers, Add	9,181.61		
	For Single Phase Transformers, Deduct	-382.57		
	For Dry Type Unit, Add	3,544.51		
26 11 16 00-0053	EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,595.15		1,046.56
	For Gas Filled Transformers, Add	9,301.21		
	For Single Phase Transformers, Deduct	-387.55		
	For Dry Type Unit, Add	3,619.76		
26 11 16 00-0054	EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	19,416.35		1,151.22
	For Gas Filled Transformers, Add	10,268.34		
	For Single Phase Transformers, Deduct	-427.85		
	For Dry Type Unit, Add	3,995.30		
26 11 16 00-0055	EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	21,636.77		1,360.53
	For Gas Filled Transformers, Add	11,349.41		
	For Single Phase Transformers, Deduct	-472.89		
	For Dry Type Unit, Add	4,433.56		
26 11 16 00-0056	EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	25,061.00		1,569.85
	For Gas Filled Transformers, Add	13,152.78		
	For Single Phase Transformers, Deduct	-548.03		
	For Dry Type Unit, Add	5,136.66		
26 11 16 00-0057	EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	29,160.69		1,883.82
	For Gas Filled Transformers, Add	15,235.83		
	For Single Phase Transformers, Deduct	-634.83		
	For Dry Type Unit, Add	5,963.24		
26 11 16 00-0058	EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	34,328.64		2,093.13
	For Gas Filled Transformers, Add	18,085.42		
	For Single Phase Transformers, Deduct	-753.56		
	For Dry Type Unit, Add	7,049.95		
26 11 16 00-0059	EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	43,947.15		2,197.79
	For Gas Filled Transformers, Add	23,730.94		
	For Single Phase Transformers, Deduct	-988.79		
	For Dry Type Unit, Add	9,140.90		
26 11 16 00-0060	Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 V (26 11 16 00-0049)			
Note: Primary 4.16 or 4.8 KV (delta or wye).				
26 11 16 00-0061	EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	16,434.14		837.26
	For Gas Filled Transformers, Add	8,855.78		
	For Single Phase Transformers, Deduct	-368.99		
	For Dry Type Unit, Add	3,414.57		
26 11 16 00-0062	EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,081.85		889.58
	For Gas Filled Transformers, Add	9,181.61		
	For Single Phase Transformers, Deduct	-382.57		
	For Dry Type Unit, Add	3,544.51		
26 11 16 00-0063	EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	17,595.15		1,046.56
	For Gas Filled Transformers, Add	9,301.21		
	For Single Phase Transformers, Deduct	-387.55		
	For Dry Type Unit, Add	3,619.76		
26 11 16 00-0064	EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	19,416.35		1,151.22
	For Gas Filled Transformers, Add	10,268.34		
	For Single Phase Transformers, Deduct	-427.85		
	For Dry Type Unit, Add	3,995.30		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0065	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	21,636.77	1,360.53
		For Gas Filled Transformers, Add	11,349.41	
		For Single Phase Transformers, Deduct	-472.89	
		For Dry Type Unit, Add	4,433.56	
26 11 16 00-0066	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	25,061.00	1,569.85
		For Gas Filled Transformers, Add	13,152.78	
		For Single Phase Transformers, Deduct	-548.03	
		For Dry Type Unit, Add	5,136.66	
26 11 16 00-0067	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	29,160.69	1,883.82
		For Gas Filled Transformers, Add	15,235.83	
		For Single Phase Transformers, Deduct	-634.83	
		For Dry Type Unit, Add	5,963.24	
26 11 16 00-0068	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	34,328.64	2,093.13
		For Gas Filled Transformers, Add	18,085.42	
		For Single Phase Transformers, Deduct	-753.56	
		For Dry Type Unit, Add	7,049.95	
26 11 16 00-0069	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	43,947.15	2,197.79
		For Gas Filled Transformers, Add	23,730.94	
		For Single Phase Transformers, Deduct	-988.79	
		For Dry Type Unit, Add	9,140.90	
26 11 16 00-0070	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	48,121.04	2,302.45
		For Gas Filled Transformers, Add	26,109.68	
		For Single Phase Transformers, Deduct	-1,087.90	
		For Dry Type Unit, Add	10,034.04	
26 11 16 00-0071	EA	3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	53,536.39	2,407.11
		For Gas Filled Transformers, Add	29,233.31	
		For Single Phase Transformers, Deduct	-1,218.05	
		For Dry Type Unit, Add	11,200.30	
26 11 16 00-0072	EA	3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	61,430.01	2,511.76
		For Gas Filled Transformers, Add	33,843.90	
		For Single Phase Transformers, Deduct	-1,410.16	
		For Dry Type Unit, Add	12,911.78	
26 11 16 00-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 V Or 240 V (26 11 16 00-0049)				
26 11 16 00-0074	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	18,310.28	941.90
		For Gas Filled Transformers, Add	9,855.88	
		For Single Phase Transformers, Deduct	-410.66	
		For Dry Type Unit, Add	3,802.20	
26 11 16 00-0075	EA	150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	18,954.85	994.24
		For Gas Filled Transformers, Add	10,179.82	
		For Single Phase Transformers, Deduct	-424.16	
		For Dry Type Unit, Add	3,931.45	
26 11 16 00-0076	EA	225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	20,375.32	1,151.22
		For Gas Filled Transformers, Add	10,843.72	
		For Single Phase Transformers, Deduct	-451.82	
		For Dry Type Unit, Add	4,206.28	
26 11 16 00-0077	EA	300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	21,557.72	1,255.88
		For Gas Filled Transformers, Add	11,427.58	
		For Single Phase Transformers, Deduct	-476.15	
		For Dry Type Unit, Add	4,441.29	
26 11 16 00-0078	EA	500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	24,619.39	1,465.19
		For Gas Filled Transformers, Add	13,013.41	
		For Single Phase Transformers, Deduct	-542.23	
		For Dry Type Unit, Add	5,064.62	
26 11 16 00-0079	EA	750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	27,340.49	1,674.50
		For Gas Filled Transformers, Add	14,394.89	
		For Single Phase Transformers, Deduct	-599.79	
		For Dry Type Unit, Add	5,613.03	
26 11 16 00-0080	EA	1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	31,962.82	1,988.48
		For Gas Filled Transformers, Add	16,791.52	
		For Single Phase Transformers, Deduct	-699.65	
		For Dry Type Unit, Add	6,554.59	
26 11 16 00-0081	EA	1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	38,494.68	2,197.79
		For Gas Filled Transformers, Add	20,459.46	
		For Single Phase Transformers, Deduct	-852.48	
		For Dry Type Unit, Add	7,941.36	
26 11 16 00-0082	EA	2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	46,130.91	2,302.45
		For Gas Filled Transformers, Add	24,915.61	
		For Single Phase Transformers, Deduct	-1,038.15	
		For Dry Type Unit, Add	9,596.21	
26 11 16 00-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 V Or 480 V (26 11 16 00-0049)				
26 11 16 00-0084	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	18,310.28	941.90
		For Gas Filled Transformers, Add	9,855.88	
		For Single Phase Transformers, Deduct	-410.66	
		For Dry Type Unit, Add	3,802.20	
26 11 16 00-0085	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	18,954.85	994.24
		For Gas Filled Transformers, Add	10,179.82	
		For Single Phase Transformers, Deduct	-424.16	
		For Dry Type Unit, Add	3,931.45	



		Electrical	26
		Medium-Voltage Electrical Distribution	26 10
		Substations	26 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0086 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	20,375.32 10,843.72 -451.82 4,206.28	1,151.22
26 11 16 00-0087 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	21,557.72 11,427.58 -476.15 4,441.29	1,255.88
26 11 16 00-0088 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	24,619.39 13,013.41 -542.23 5,064.62	1,465.19
26 11 16 00-0089 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	24,201.47 12,511.48 -521.31 4,922.44	1,674.50
26 11 16 00-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	25,514.07 12,922.27 -538.43 5,135.86	1,988.48
26 11 16 00-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	31,106.26 16,026.41 -667.77 6,315.91	2,197.79
26 11 16 00-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	36,554.53 19,169.78 -798.74 7,489.41	2,302.45
26 11 16 00-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	40,680.33 21,519.68 -896.65 8,371.97	2,407.11
26 11 16 00-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	47,414.72 25,434.73 -1,059.78 9,828.42	2,511.76
26 11 16 00-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer For Gas Filled Transformers, Add For Single Phase Transformers, Deduct For Dry Type Unit, Add	57,636.91 31,442.45 -1,310.10 12,052.18	2,616.42
26 11 16 00-0096 Substation Secondary Distribution Section (26 11 16) Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 11 16 00-0097 Switchgear Compartment Complete With Air Circuit Breaker (26 11 16 00-0096) Note: With solid state long - time and instantaneous trips.		
26 11 16 00-0098 EA 800 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	7,840.65	890.97
26 11 16 00-0099 EA 1,600 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	12,675.44	1,347.06
26 11 16 00-0100 EA 2,000 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	17,185.77	1,654.65
26 11 16 00-0101 EA 3,200 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	27,831.78	1,919.83
26 11 16 00-0102 EA 4,000 Amp, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	35,570.15	2,185.00
26 11 16 00-0103 Switchgear Compartment Without Circuit Breaker (26 11 16 00-0096)		
26 11 16 00-0104 EA 800 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	3,483.62	270.48
26 11 16 00-0105 EA 1,600 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,024.94	270.48
26 11 16 00-0106 EA 2,000 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	5,263.46	397.75
26 11 16 00-0107 EA 3,200 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	7,405.03	397.75
26 11 16 00-0108 EA 4,000 Amp, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,246.41	583.37
26 11 16 00-0109 Switchgear Compartment, Blank, Use As Filler Or Metering (26 11 16 00-0096) Note: No provisions for future breaker.		
26 11 16 00-0110 EA 600 Thru 2,000 Amp, Blank Section Filler, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,354.42 172.85	302.30
26 11 16 00-0111 EA 3,000 Amp, Blank Section Filler, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,927.05 202.91	302.30
26 11 16 00-0112 EA 4,000 Amp, Blank Section Filler, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,858.61 291.69	466.70
26 11 16 00-0113 Accessories For Substation Secondary Distribution (26 11 16 00-0096)		
26 11 16 00-0114 EA Short Time Delay Accessories, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,228.75 56.92	
26 11 16 00-0115 EA Key Interlock Accessories, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	979.20 56.92	
26 11 16 00-0116 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,876.76 56.92	94.85
26 11 16 00-0117 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,876.76 56.92	94.85
26 11 16 00-0118 EA Wattmeter - Complete Accessories, Secondary Distribution Section..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,771.40 56.92	94.85

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 00-0119 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,854.37 56.92	94.85
26 11 16 00-0120 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,176.52 64.85	108.11
26 11 16 00-0121 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,027.19 960.73	1,601.21
26 11 16 00-0122 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800	1,360.59	94.85
26 11 16 00-0123 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	1,579.80	94.85
26 11 16 00-0124 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	840.38 28.46	47.43
26 11 16 00-0125 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,070.76 56.92	94.85
26 11 16 00-0126 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section	802.71	47.43

26 12 Medium-Voltage Transformers (26 10)**26 12 13 Liquid-Filled, Medium-Voltage Transformers** (26 12)**26 12 13 00-0001 Removal And Relocation Of Transformers** (26 12 13)

26 12 13 00-0002 EA Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer.....	1,047.24	
26 12 13 00-0003 EA Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	1,927.22	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent**Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA** (26 12 13 00-0004)

26 12 13 00-0006 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	1,546.23	423.81
26 12 13 00-0007 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	1,889.22	529.77
26 12 13 00-0008 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,227.07	635.72
26 12 13 00-0009 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	2,839.90	794.65
26 12 13 00-0010 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	3,386.49	953.58
26 12 13 00-0011 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	4,366.13	1,112.51
26 12 13 00-0012 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	5,178.35	1,324.42

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent**Taps FCAN And FCBN. Rated To 5 KVA** (26 12 13 00-0004)

26 12 13 00-0014 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,546.23	423.81
26 12 13 00-0015 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,908.41	529.77
26 12 13 00-0016 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,227.07	635.72
26 12 13 00-0017 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,839.90	794.65
26 12 13 00-0018 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,386.49	953.58
26 12 13 00-0019 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,162.95	1,112.51
26 12 13 00-0020 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	5,078.22	1,324.42

26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps**FCBN And FCAN** (26 12 13 00-0004)

26 12 13 00-0022 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,523.85	423.81
26 12 13 00-0023 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	1,828.47	529.77
26 12 13 00-0024 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,166.99	635.72
26 12 13 00-0025 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	2,826.04	794.65
26 12 13 00-0026 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	3,327.95	953.58
26 12 13 00-0027 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	4,199.92	1,112.51
26 12 13 00-0028 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	5,087.46	1,324.42

26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent**Taps FCBN And FCAN** (26 12 13 00-0004)

26 12 13 00-0030 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	1,627.77	423.81
26 12 13 00-0031 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	1,935.58	529.77
26 12 13 00-0032 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	2,447.60	635.72
26 12 13 00-0033 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,075.83	794.65
26 12 13 00-0034 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	3,607.97	953.58
26 12 13 00-0035 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	4,614.05	1,112.51
26 12 13 00-0036 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase	5,756.01	1,324.42

26 12 13 00-0037 Transformer Platforms (26 12 13 00-0004)

26 12 13 00-0038 EA Transformer Platforms, 75 - 167 KVA.....	3,254.81	715.72
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26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops**FCBN Auto FCAN** (26 12 13 00-0004)

26 12 13 00-0040 EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,570.14	847.63
26 12 13 00-0041 EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,869.69	953.58
26 12 13 00-0042 EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,296.25	1,059.53



Electrical		26
Medium-Voltage Electrical Distribution		26 10
Medium-Voltage Transformers		26 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0043 EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,451.97	1,483.34
26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,090.11	1,695.25
26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,630.27	2,119.07
26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,777.66	2,330.97
26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,116.01	2,966.69
26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	12,058.69	3,390.51
26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,710.96	4,238.13
26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,690.26	5,297.66
26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL (26 12 13 00-0004)		
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,546.23	518.96
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	1,889.22	648.65
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,226.64	777.60
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,840.92	974.45
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,385.51	1,167.28
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,358.79	1,359.49
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,178.35	1,621.72
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN (26 12 13 00-0004)		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,546.23	518.96
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,908.41	648.65
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,226.64	777.60
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,840.92	974.45
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,385.51	1,167.28
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,161.61	1,359.49
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,078.22	1,621.72
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y (26 12 13 00-0004)		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,378.09	423.81
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,683.00	529.77
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,982.11	635.72
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,536.22	794.65
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,105.60	953.58
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,255.20	1,112.51
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,974.13	1,324.42
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,327.22	423.81
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,619.05	529.77
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,953.04	635.72
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,478.09	794.65
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,025.67	953.58
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,964.54	1,112.51
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,683.47	1,324.42
26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers (26 12 13)		
26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 V (26 12 13 00-0084)		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	7,222.84	2,330.97
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	9,224.24	2,966.69
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	10,772.99	3,178.60
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,739.30	3,973.26
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	19,378.53	5,297.66
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	25,812.92	6,092.31
26 12 16 Dry-Type, Medium-Voltage Transformers (26 12)		
26 12 16 00-0001 Removal and Relocation of Transformers (26 12 16)		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	434.32	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	1,930.33	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers (26 12)		
26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers (26 12 19)		
Note: Designed for residential and multi-family buildings. UL listed.		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0002		Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled (26 12 19 00-0001) Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
26 12 19 00-0003		Primary, 4.16/4.8 KV Ground Y Or Delta (26 12 19 00-0002) Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	2,763.84	523.29
26 12 19 00-0005	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,112.34	523.29
26 12 19 00-0006	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,705.03	716.90
26 12 19 00-0007	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,461.69	716.90
26 12 19 00-0008	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,034.81	941.90
26 12 19 00-0009	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,488.55	941.90
26 12 19 00-0010		Factory Modifications Material Cost Only (26 12 19 00-0002)		
26 12 19 00-0011	EA	Loadbreaker Current Limiting Fuse Factory Modifications	433.22	
26 12 19 00-0012	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	455.20	
26 12 19 00-0013	EA	Loadbreaker Inserts, Factory Modifications	500.72	
26 12 19 00-0014		Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001) Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
26 12 19 00-0015		Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014) Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016	EA	25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,299.62	523.29
26 12 19 00-0017	EA	37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,798.44	523.29
26 12 19 00-0018	EA	50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,168.08	716.90
26 12 19 00-0019	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,062.86	716.90
26 12 19 00-0020	EA	100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,659.54	941.90
26 12 19 00-0021	EA	167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,858.99	941.90
26 12 19 00-0022	EA	250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	10,459.00	1,308.21
26 12 19 00-0023		Factory Modifications Material Cost Only (26 12 19 00-0014)		
26 12 19 00-0024	EA	Loadbreaker Current Limiting Fuse Factory Modifications	577.63	
26 12 19 00-0025	EA	Lightning Arrestors, Factory Modifications	146.36	
26 12 19 00-0026	EA	Loadbreaker Oil Switch, 2 Position Factory Modifications	455.20	
26 12 19 00-0027	EA	Loop Feed Air Switch, Factory Modifications	740.87	
26 12 19 00-0028	EA	Loadbreaker Inserts (Two), Factory Modifications	197.78	
26 12 19 00-0029	EA	Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	171.09	
26 12 19 00-0030		Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014) Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031	EA	25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,512.51	523.29
26 12 19 00-0032	EA	37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,868.98	523.29
26 12 19 00-0033	EA	50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,140.23	716.90
26 12 19 00-0034	EA	75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,892.03	716.90
26 12 19 00-0035	EA	100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,013.12	941.90
26 12 19 00-0036	EA	167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	7,481.62	942.02
26 12 19 00-0037	EA	250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	9,464.67	1,308.21
26 12 19 00-0038		Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001) Note: Conventional type.		
26 12 19 00-0039		13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038) Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040	EA	10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	2,400.94	355.23
26 12 19 00-0041	EA	37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,061.15	499.53



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0042	EA	50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,613.41	799.26
26 12 19 00-0043	EA	100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,773.30	799.26
26 12 19 00-0044	EA	167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,565.93	1,309.89
26 12 19 00-0045	EA	250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,775.82	1,309.89
26 12 19 00-0046 Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)				
26 12 19 00-0047 7.2 KV Primary, 120/240 V Secondary (26 12 19 00-0046)				
26 12 19 00-0048	EA	10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,344.26	377.43
26 12 19 00-0049	EA	15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,567.20	377.43
26 12 19 00-0050	EA	25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,991.68	532.84
26 12 19 00-0051	EA	37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,920.72	532.84
26 12 19 00-0052	EA	50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,523.98	721.55
26 12 19 00-0053	EA	100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,628.54	1,110.08
26 12 19 00-0054	EA	167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,452.57	1,110.08
26 12 19 00-0055	EA	250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,600.83	1,387.60
26 12 19 00-0056 7.2 KV Primary, 240/480 V Secondary (26 12 19 00-0046)				
26 12 19 00-0057	EA	10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,344.26	377.43
26 12 19 00-0058	EA	15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,567.25	377.43
26 12 19 00-0059	EA	25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,991.68	532.84
26 12 19 00-0060	EA	37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,920.72	532.84
26 12 19 00-0061	EA	50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,523.98	721.55
26 12 19 00-0062	EA	75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,783.54	976.86
26 12 19 00-0063	EA	100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,628.54	976.86
26 12 19 00-0064	EA	167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,452.57	1,232.18
26 12 19 00-0065	EA	250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,600.83	1,387.60
26 12 19 00-0066 2.4 KV Primary, 277 V Secondary (26 12 19 00-0046)				
26 12 19 00-0067	EA	10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,522.13	377.43
26 12 19 00-0068	EA	15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,761.04	377.43
26 12 19 00-0069	EA	25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,221.51	532.84
26 12 19 00-0070	EA	37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,214.31	532.84
26 12 19 00-0071	EA	50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,859.91	721.55
26 12 19 00-0072	EA	75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,160.18	976.86
26 12 19 00-0073	EA	100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	8,250.13	976.86
26 12 19 00-0074	EA	167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	11,325.03	1,232.18
26 12 19 00-0075	EA	250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	14,783.56	1,387.60
26 12 19 00-0076 2.4 KV Primary, 120/240 V Secondary (26 12 19 00-0046)				
26 12 19 00-0077	EA	10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,344.26	377.43
26 12 19 00-0078	EA	15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,567.20	377.43
26 12 19 00-0079	EA	25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,991.68	724.99
26 12 19 00-0080	EA	37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,920.72	976.86
26 12 19 00-0081	EA	50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,523.98	721.55
26 12 19 00-0082	EA	75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,629.61	976.86
26 12 19 00-0083	EA	100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,627.37	976.86
26 12 19 00-0084 2.4 KV Primary, 240/480 V Secondary (26 12 19 00-0046)				
26 12 19 00-0085	EA	10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,344.26	377.43
26 12 19 00-0086	EA	15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,567.20	377.43
26 12 19 00-0087	EA	25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,991.68	532.84
26 12 19 00-0088	EA	37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,920.72	532.84
26 12 19 00-0089	EA	50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,523.98	721.55
26 12 19 00-0090	EA	75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,629.61	976.86
26 12 19 00-0091	EA	100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,627.37	976.86
26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 V Secondary (26 12 19 00-0046)				
26 12 19 00-0093	EA	10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,067.63	388.53
26 12 19 00-0094	EA	15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,254.67	432.93
26 12 19 00-0095	EA	25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,690.25	477.33
26 12 19 00-0096	EA	37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,494.88	666.04
26 12 19 00-0097	EA	50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,934.70	777.05
26 12 19 00-0098	EA	75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,236.19	910.26
26 12 19 00-0099	EA	100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,229.22	1,043.47
26 12 19 00-0100	EA	167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	9,370.38	1,332.09
26 12 19 00-0101	EA	250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	12,508.18	1,498.60
26 13 Medium-Voltage Switchgear (26 10)				
26 13 16 Medium-Voltage Fusible Interrupter Switchgear (26 13)				

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 13 Medium-Voltage Switchgear**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0001		"Switchyard", Substation Secondary Distribution Section (26 13 16) Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002		4.16 Or 4.8 KV Switchgear Sections (26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0003	EA	1,200 Amp, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	7,464.22	1,154.48
		For Weatherproofing, Add	1,480.24	
26 13 16 00-0004	EA	1,200 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	7,779.07	1,154.48
		For Weatherproofing, Add	1,549.51	
26 13 16 00-0005	EA	1,200 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	10,419.57	1,470.85
		For Weatherproofing, Add	2,097.56	
26 13 16 00-0006	EA	2,000 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	13,882.37	1,470.85
		For Weatherproofing, Add	2,834.61	
26 13 16 00-0007	EA	2,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	19,446.02	1,776.12
		For Weatherproofing, Add	4,029.07	
26 13 16 00-0008	EA	3,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	17,983.17	1,776.12
		For Weatherproofing, Add	3,694.66	
26 13 16 00-0009		7.2 KV Switchgear Sections (26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0010	EA	1,200 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	10,704.42	1,332.09
		For Weatherproofing, Add	2,176.34	
26 13 16 00-0011	EA	2,000 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	13,241.23	1,665.12
		For Weatherproofing, Add	2,679.72	
26 13 16 00-0012	EA	3,000 Amp, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	18,235.69	1,998.13
		For Weatherproofing, Add	3,739.20	
26 13 16 00-0013		13.8 KV Switchgear Sections (26 13 16 00-0001) Note: Includes air circuit breaker.		
26 13 16 00-0014	EA	1,200 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	10,468.30	1,332.09
		For Weatherproofing, Add	2,109.73	
26 13 16 00-0015	EA	1,200 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	14,130.02	1,332.09
		For Weatherproofing, Add	2,883.37	
26 13 16 00-0016	EA	1,200 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	20,176.63	1,776.12
		For Weatherproofing, Add	4,177.22	
26 13 16 00-0017	EA	2,000 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	13,193.52	1,776.12
		For Weatherproofing, Add	2,655.89	
26 13 16 00-0018	EA	2,000 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	18,609.24	2,220.15
		For Weatherproofing, Add	3,815.52	
26 13 16 00-0019	EA	2,000 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	25,506.03	2,220.15
		For Weatherproofing, Add	5,299.26	
26 13 16 00-0020	EA	3,000 Amp, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	18,052.34	2,220.15
		For Weatherproofing, Add	3,683.72	
26 13 16 00-0021	EA	3,000 Amp, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	24,485.28	2,220.15
		For Weatherproofing, Add	5,066.99	
26 13 16 00-0022	EA	3,000 Amp, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	31,293.28	2,220.15
		For Weatherproofing, Add	6,534.50	
26 13 16 00-0023		4.16 Or 4.8 KV Switchgear Section (26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0024	EA	1,200 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	3,552.95	727.10
		For Weatherproofing, Add	679.67	
26 13 16 00-0025	EA	1,200 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,406.53	727.10
		For Weatherproofing, Add	867.46	
26 13 16 00-0026	EA	2,000 Amp, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,947.52	965.76
		For Weatherproofing, Add	953.55	
26 13 16 00-0027	EA	2,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,130.40	1,193.33
		For Weatherproofing, Add	1,181.58	
26 13 16 00-0028	EA	3,000 Amp, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	7,857.97	1,193.33
		For Weatherproofing, Add	1,561.65	
26 13 16 00-0029		7.2 KV Switchgear Section (26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0030	EA	1,200 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,405.95	1,110.08
		For Weatherproofing, Add	853.16	
26 13 16 00-0031	EA	2,000 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	5,743.27	1,110.08
		For Weatherproofing, Add	1,114.66	
26 13 16 00-0032	EA	3,000 Amp, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,443.00	1,110.08
		For Weatherproofing, Add	1,676.33	
26 13 16 00-0033		13.8 KV Switchgear Section (26 13 16 00-0001) Note: Excludes air circuit breaker element.		
26 13 16 00-0034	EA	1,200 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,624.94	943.56
		For Weatherproofing, Add	886.01	
26 13 16 00-0035	EA	1,200 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	4,871.97	943.56
		For Weatherproofing, Add	940.35	
26 13 16 00-0036	EA	1,200 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,811.13	1,165.58
		For Weatherproofing, Add	1,334.51	



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Switchgear		26 13	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 13 16 00-0037	EA 2,000 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	6,419.91 1,216.15		1,398.70
26 13 16 00-0038	EA 2,000 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	7,584.05 1,472.27		1,398.70
26 13 16 00-0039	EA 2,000 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	8,745.27 1,694.74		1,631.81
26 13 16 00-0040	EA 3,000 Amp, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	8,518.46 1,612.43		1,864.93
26 13 16 00-0041	EA 3,000 Amp, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	9,316.16 1,787.92		1,864.93
26 13 16 00-0042	EA 3,000 Amp, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	11,283.13 2,187.95		2,086.94
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)				
26 13 16 00-0044	EA 1,200 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,490.84 422.08		703.46
26 13 16 00-0045	EA 2,000 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,017.35 468.39		780.61
26 13 16 00-0046	EA 3,000 Amp, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,860.55 563.49		939.12
26 13 16 00-0047	EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	3,240.84		1,412.35
26 13 16 00-0048	EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	2,342.11		94.85
26 13 16 00-0049	EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	3,096.11		94.85
26 13 16 00-0050	EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	5,589.87		94.85
26 13 16 00-0051	EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,413.55		94.85
26 13 16 00-0052	EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,809.36		94.85
26 13 16 00-0053	EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	6,511.86		94.85
26 13 16 00-0054	EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,113.50		94.85
26 13 16 00-0055	EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,246.04		94.85
26 13 16 00-0056	EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	1,842.79		94.85
26 13 16 00-0057	EA Overcurrent Phase Protection, Time And Instantaneous Device 67	1,214.16		94.85
26 13 16 00-0058	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA AC Ammeter With Switch.....	56.92 533.59		94.85
26 13 16 00-0059	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA AC Voltmeter With Switch And Potential Transformer	56.92 533.59		94.85
26 13 16 00-0060	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Indicating Wattmeter.....	56.92 742.77		94.85
26 13 16 00-0061	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Indicating Varmeter.....	56.92 858.83		94.85
26 13 16 00-0062	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Indicating Watt-hour Meter, 2 Element	56.92 575.14		94.85
26 13 16 00-0063	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Ground Protection, Time Or Instantaneous Device 67N.....	56.92 1,221.32		94.85
26 13 16 00-0064	EA Differential Generator Protection Single Phase NEMA Device 87	2,219.61		94.85
26 13 16 00-0065	EA Current Transformers 5 And 15 KV Single Secondary	392.82		94.85
26 13 16 00-0066	EA Potential Transformers 5 KV And 15 KV With Primary Fuses.....	1,513.25		94.85
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)				
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)				
26 13 19 00-0002	EA 1,200 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	24,247.40		1,387.60
26 13 19 00-0003	EA 1,200 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	26,861.74		1,753.92
26 13 19 00-0004	EA 1,200 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	30,535.25		1,753.92
26 13 19 00-0005	EA 2,000 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	27,617.33		1,387.60
26 13 19 00-0006	EA 2,000 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	30,894.87		1,387.60
26 13 19 00-0007	EA 2,000 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	35,244.39		1,631.81
26 13 19 00-0008	EA 3,000 Amp, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	36,543.31		1,864.93
26 13 19 00-0009	EA 3,000 Amp, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	39,837.50		1,864.93
26 13 19 00-0010	EA 3,000 Amp, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	43,584.86		2,098.04
26 18 Medium-Voltage Circuit Protection Devices (26 18)				
26 18 16 Medium-Voltage Fuses (26 18)				
26 18 16 00-0001	Sectionalizing Switch (26 18 16)			
26 18 16 00-0002	Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 16 00-0001) Note: 15 KV - 25 KV.			
26 18 16 00-0003	Sectionalizing Tapping And Fusing Underground Feeders (26 18 16 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.			
26 18 16 00-0004	EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	19,122.01		784.92
26 18 16 00-0005	EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	21,453.96		784.92
26 20 Low-Voltage Electrical Distribution (26)				
26 21 Low-Voltage Electrical Service Entrance (26 20)				
See CSI section 26 05 13 00-0000 for wire and cables.				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)		
26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		
26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004 LF #6 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	6.79	2.64
26 21 13 00-0005 LF #4 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.10	3.12
26 21 13 00-0006 LF #2 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	9.29	3.53
26 21 13 00-0007 LF #1/0 AWG Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.99	4.44
26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0009 LF #6 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	8.14	3.12
26 21 13 00-0010 LF #4 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	9.24	3.53
26 21 13 00-0011 LF #2 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.68	4.44
26 21 13 00-0012 LF #1/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	14.41	5.42
26 21 13 00-0013 LF #2/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	18.94	7.16
26 21 13 00-0014 LF #4/0 AWG Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	23.78	8.88
26 21 13 00-0015 LF 336 MCM Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	29.80	10.58
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017 LF #6 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	9.25	3.53
26 21 13 00-0018 LF #4 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	11.67	4.44
26 21 13 00-0019 LF #2 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	15.01	5.70
26 21 13 00-0020 LF #1/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	19.19	7.16
26 21 13 00-0021 LF #2/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	21.31	7.93
26 21 13 00-0022 LF #3/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	24.20	8.88
26 21 13 00-0023 LF #4/0 AWG Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	28.66	10.58
26 21 13 00-0024 LF 336 MCM Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable, 600 Volt.....	33.47	11.68
26 21 13 00-0025 Aluminum Triplex For Underground Service, Direct Burial (26 21 13 00-0002)		
Note: Excludes excavation and backfill.		
26 21 13 00-0026 MLF #6 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	2,847.07	986.74
26 21 13 00-0027 MLF #4 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,117.33	1,044.80
26 21 13 00-0028 MLF #2 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,476.01	1,110.08
26 21 13 00-0029 MLF #1/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	3,776.32	1,110.08
26 21 13 00-0030 MLF #2/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	4,117.35	1,184.12
26 21 13 00-0031 MLF #3/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	4,823.97	1,366.28
26 21 13 00-0032 MLF #4/0 AWG Aluminum Triplex URD With Neutral Cable, Stranded Cable, 600 Volt, Direct Burial.....	6,082.58	1,776.12
26 21 13 00-0033 Weather Proof Conduit Hubs (26 21 13 00-0002)		
26 21 13 00-0034 EA 1/2" Weatherproof Conduit Hubs.....	47.76	18.26
26 21 13 00-0035 EA 3/4" Weatherproof Conduit Hubs.....	54.46	20.75
26 21 13 00-0036 EA 1" Weatherproof Conduit Hubs.....	62.95	23.24
26 21 13 00-0037 EA 1-1/4" Weatherproof Conduit Hubs.....	87.35	31.13
26 21 13 00-0038 EA 1-1/2" Weatherproof Conduit Hubs.....	95.85	33.62
26 21 13 00-0039 EA 2" Weatherproof Conduit Hubs.....	122.29	39.01
26 21 13 00-0040 EA 2-1/2" Weatherproof Conduit Hubs.....	158.07	44.00
26 21 13 00-0041 EA 3" Weatherproof Conduit Hubs.....	202.39	51.88
26 21 13 00-0042 EA 4" Weatherproof Conduit Hubs.....	362.63	103.76
26 21 13 00-0043 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)		
26 21 13 00-0044 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service.....	51.36	18.26
26 21 13 00-0045 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service.....	58.77	20.75
26 21 13 00-0046 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	66.90	23.24
26 21 13 00-0047 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	89.82	31.13
26 21 13 00-0048 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	100.39	33.62
26 21 13 00-0049 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service.....	128.07	39.01
26 21 13 00-0050 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service.....	199.36	44.00
26 21 13 00-0051 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service.....	228.28	51.88
26 21 13 00-0052 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service.....	389.07	103.76
26 21 13 00-0053 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)		
26 21 13 00-0054 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service.....	50.11	18.26
26 21 13 00-0055 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service.....	56.67	20.75
26 21 13 00-0056 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	64.06	23.14
26 21 13 00-0057 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	85.34	31.13
26 21 13 00-0058 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service.....	94.33	33.62
26 21 13 00-0059 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service.....	110.76	39.01
26 21 13 00-0060 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service.....	166.90	44.00
26 21 13 00-0061 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service.....	211.96	51.88
26 21 13 00-0062 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 Thru 500 MCM Cable Service.....	301.96	77.82
26 21 13 00-0063 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service.....	369.64	103.76



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Electrical Service Entrance	26 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0064 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) ^(26 21 13 00-0002)		
26 21 13 00-0065 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 Thru #10 AWG Cable Service	50.91	18.26
26 21 13 00-0066 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #12 Thru #8 AWG Cable Service	58.33	20.75
26 21 13 00-0067 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	66.40	23.14
26 21 13 00-0068 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	88.38	31.13
26 21 13 00-0069 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 Thru #2 AWG Cable Service	96.40	33.62
26 21 13 00-0070 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #1/0 Thru #2/0 AWG Cable Service	119.37	39.01
26 21 13 00-0071 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #3/0 Thru #4/0 Cable Service	210.54	44.00
26 21 13 00-0072 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 Thru 350 MCM Cable Service	234.60	51.88
26 21 13 00-0073 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 Thru 500 MCM Cable Service	408.96	77.82
26 21 13 00-0074 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 Thru 750 MCM Cable Service	568.48	103.76
26 22 Low-Voltage Transformers ^(26 20)		
26 22 13 Low-Voltage Distribution Transformers ^(26 22)		
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers ^(26 22 13)		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers ^(26 22 13 00-0001)		
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	686.53	265.47
26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	873.99	318.57
26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	1,002.40	332.37
26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	1,131.79	345.11
26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	1,435.44	371.66
26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	1,646.06	398.21
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	1,787.31	424.76
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	1,829.92	477.85
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	2,125.65	530.95
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	2,716.19	637.14
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	3,351.57	743.32
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	5,004.73	955.71
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	8,204.48	1,168.09
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose	12,122.38	1,327.37
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add		
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers ^(26 22 13 00-0001)		
Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	801.58	318.57
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	886.38	331.85
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,002.10	345.11
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,130.46	371.66
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers ^(26 22 13 00-0001)		
Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,646.06	398.21
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	1,787.31	424.76
26 22 13 00-0025 1 Phase Mounting Brackets ^(26 22 13 00-0001)		
26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA	477.23	189.72

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0027	1 Phase Weathershields (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.			
26 22 13 00-0028	EA 37.5 KVA 1 Phase Weathershields, Set Of 2	30.61		
26 22 13 00-0029	EA 50 KVA 1 Phase Weathershields, Set Of 2	39.01		
26 22 13 00-0030	EA 75 KVA 1 Phase Weathershields, Set Of 2	46.52		
26 22 13 00-0031	EA 100 KVA 1 Phase Weathershields, Set Of 2	55.50		
26 22 13 00-0032	EA 167 KVA 1 Phase Weathershields, Set Of 2	75.09		
26 22 13 00-0033	EA 250 KVA 1 Phase Weathershields, Set Of 2	89.78		
26 22 13 00-0034	EA 333 KVA 1 Phase Weathershields, Set Of 2	110.18		
26 22 13 00-0035	Packaged Power Supply (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.			
26 22 13 00-0036	EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amp Breakers.....	1,113.66	331.85	
26 22 13 00-0037	EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amp Breakers.....	1,216.38	345.11	
26 22 13 00-0038	EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amp Breakers.....	1,314.83	371.66	
26 22 13 00-0039	EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amp Breakers.....	1,538.18	398.21	
26 22 13 00-0040	EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amp Breakers.....	1,955.91	424.76	
26 22 13 00-0041	240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)			
26 22 13 00-0042	EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	816.56	238.93	
26 22 13 00-0043	EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,057.38	265.47	
26 22 13 00-0044	EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,245.19	318.57	
26 22 13 00-0045	EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,349.28	331.85	
26 22 13 00-0046	EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,481.93	345.11	
26 22 13 00-0047	EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	1,812.51	371.66	
26 22 13 00-0048	EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer	2,239.42	398.21	
26 22 13 00-0049	1 Phase, 208/600 Volt, Dry General Purpose Transformer (26 22 13 00-0001)			
26 22 13 00-0050	EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,633.09	398.21	
26 22 13 00-0051	EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,747.07	424.76	
26 22 13 00-0052	EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	2,867.51	451.31	
26 22 13 00-0053	EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,625.07	477.85	
26 22 13 00-0054	EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	3,777.60	504.40	
26 22 13 00-0055	EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry	4,846.24	530.95	
26 22 13 00-0056	3 Phase General Purpose "Dry Type" Transformer (26 22 13) Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.			
26 22 13 00-0057	Packaged Power Supply (26 22 13 00-0056) Note: 2-5 Percent FCBN taps.			
26 22 13 00-0058	EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amp Breakers.....	4,439.86	1,141.54	
	For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	107.84		
	For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	161.76		
26 22 13 00-0059	EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amp Breakers.....	5,115.08	1,221.18	
	For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	133.64		
	For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	200.45		
26 22 13 00-0060	EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amp Breakers.....	5,934.13	1,327.37	
	For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	163.97		
	For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	245.95		
26 22 13 00-0061	Drive Isolation Transformers (26 22 13 00-0056) Note: Only use in step-up applications.			
26 22 13 00-0062	230 Volt Drive Isolation Transformers (26 22 13 00-0061)			
26 22 13 00-0063	EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	2,758.42	424.76	
26 22 13 00-0064	EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,168.53	451.31	
26 22 13 00-0065	EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,293.04	477.85	
26 22 13 00-0066	EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,809.78	504.40	
26 22 13 00-0067	EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,989.29	557.50	
26 22 13 00-0068	EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,383.00	610.59	
26 22 13 00-0069	EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,921.43	663.69	
26 22 13 00-0070	EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,689.09	743.32	
26 22 13 00-0071	EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,112.53	769.87	
26 22 13 00-0072	EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,937.76	796.42	
26 22 13 00-0073	EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,497.98	822.97	
26 22 13 00-0074	EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,649.39	1,008.80	
26 22 13 00-0075	EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,681.94	1,061.90	
26 22 13 00-0076	EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,106.73	1,115.00	
26 22 13 00-0077	EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,726.02	1,327.37	
26 22 13 00-0078	EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,263.50	1,566.30	
26 22 13 00-0079	EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,425.59	1,725.58	
26 22 13 00-0080	EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	24,631.23	1,911.42	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0081	EA	550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	30,100.04	2,123.80
26 22 13 00-0082		208V Drive Isolation Transformers (26 22 13 00-0061)		
26 22 13 00-0083	EA	7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	2,855.58	424.76
26 22 13 00-0084	EA	11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,283.87	451.31
26 22 13 00-0085	EA	15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,412.01	477.85
26 22 13 00-0086	EA	20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,952.35	504.40
26 22 13 00-0087	EA	27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,135.60	557.50
26 22 13 00-0088	EA	30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,490.84	584.05
26 22 13 00-0089	EA	45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,157.46	690.24
26 22 13 00-0090	EA	51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,902.99	743.32
26 22 13 00-0091	EA	63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,345.29	769.87
26 22 13 00-0092	EA	75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,209.82	796.42
26 22 13 00-0093	EA	93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,846.75	822.97
26 22 13 00-0094	EA	118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,037.84	1,008.80
26 22 13 00-0095	EA	145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,117.55	1,061.90
26 22 13 00-0096	EA	175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,609.46	1,115.00
26 22 13 00-0097	EA	220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,340.45	1,327.37
26 22 13 00-0098		480 Volt x 208Y/120 Volt, 2 - 2.5 Percent FCBN Taps (26 22 13 00-0056)		
26 22 13 00-0099	EA	9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,119.88	438.04
26 22 13 00-0100	EA	15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,662.38	477.85
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	85.33	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	128.00	
26 22 13 00-0101		480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0056)		
26 22 13 00-0102	EA	30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,042.82	584.05
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	93.74	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	140.60	
		For K4 Factor Rating, Add	1,312.31	
		For K13 Factor Rating, Add	1,874.73	
		For K20 Factor Rating, Add	2,437.15	
26 22 13 00-0103	EA	37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,591.54	637.14
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	115.86	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	173.80	
		For K4 Factor Rating, Add	1,622.09	
		For K13 Factor Rating, Add	2,317.27	
		For K20 Factor Rating, Add	3,012.45	
26 22 13 00-0104	EA	45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,784.07	690.24
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	120.18	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	180.27	
		For K4 Factor Rating, Add	1,682.52	
		For K13 Factor Rating, Add	2,403.60	
		For K20 Factor Rating, Add	3,124.68	
26 22 13 00-0105	EA	50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,771.84	743.32
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	164.26	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	246.39	
		For K4 Factor Rating, Add	2,299.63	
		For K13 Factor Rating, Add	3,285.18	
		For K20 Factor Rating, Add	4,270.73	
26 22 13 00-0106	EA	75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,782.27	796.42
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	159.47	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	239.21	
		For K4 Factor Rating, Add	2,232.59	
		For K13 Factor Rating, Add	3,189.42	
		For K20 Factor Rating, Add	4,146.25	
26 22 13 00-0107	EA	112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	5,909.73	955.71
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	199.92	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	299.87	
		For K4 Factor Rating, Add	2,798.82	
		For K13 Factor Rating, Add	3,998.31	
		For K20 Factor Rating, Add	5,197.80	
26 22 13 00-0108	EA	150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	7,456.16	1,061.90
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	266.62	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	399.93	
		For K4 Factor Rating, Add	3,732.65	
		For K13 Factor Rating, Add	5,332.36	
		For K20 Factor Rating, Add	6,932.07	
26 22 13 00-0109	EA	225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	10,022.40	1,327.37
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	368.38	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	552.57	
		For K4 Factor Rating, Add	5,157.36	
		For K13 Factor Rating, Add	7,367.65	
		For K20 Factor Rating, Add	9,577.95	
26 22 13 00-0110	EA	300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	12,250.39	1,645.95
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	447.93	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	671.89	
		For K4 Factor Rating, Add	6,270.96	
		For K13 Factor Rating, Add	8,958.51	
		For K20 Factor Rating, Add	11,646.06	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	17,153.51	2,017.61
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	655.91	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	983.87	
For K4 Factor Rating, Add	9,182.80	
For K13 Factor Rating, Add	13,118.29	
For K20 Factor Rating, Add	17,053.78	
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	36,883.26	2,407.11
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,599.93	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,399.89	
For K4 Factor Rating, Add	22,398.96	
For K13 Factor Rating, Add	31,998.52	
For K20 Factor Rating, Add	41,598.08	
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	47,911.36	2,654.75
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,130.09	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,195.14	
For K4 Factor Rating, Add	29,821.31	
For K13 Factor Rating, Add	42,601.87	
For K20 Factor Rating, Add	55,382.43	
26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps		
(26 22 13 00-0056)		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	1,792.39	411.49
For K4 Factor Rating, Add	678.59	
For K13 Factor Rating, Add	969.42	
For K20 Factor Rating, Add	1,260.25	
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,119.88	438.04
For K4 Factor Rating, Add	870.67	
For K13 Factor Rating, Add	1,243.82	
For K20 Factor Rating, Add	1,616.97	
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,662.38	477.85
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	85.33	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	128.00	
For K4 Factor Rating, Add	1,194.67	
For K13 Factor Rating, Add	1,706.67	
For K20 Factor Rating, Add	2,218.67	
26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps		
(26 22 13 00-0056)		
26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	4,736.72	584.05
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	178.43	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	267.65	
For K4 Factor Rating, Add	2,498.04	
For K13 Factor Rating, Add	3,568.63	
For K20 Factor Rating, Add	4,639.22	
26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	5,351.64	690.24
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	198.56	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	297.84	
For K4 Factor Rating, Add	2,779.82	
For K13 Factor Rating, Add	3,971.17	
For K20 Factor Rating, Add	5,162.52	
26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	7,632.53	796.42
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	301.98	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	452.98	
For K4 Factor Rating, Add	4,227.78	
For K13 Factor Rating, Add	6,039.68	
For K20 Factor Rating, Add	7,851.58	
26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	9,529.61	955.71
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	380.91	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	571.36	
For K4 Factor Rating, Add	5,332.73	
For K13 Factor Rating, Add	7,618.19	
For K20 Factor Rating, Add	9,903.65	
26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	11,371.77	1,061.90
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	462.40	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	693.60	
For K4 Factor Rating, Add	6,473.58	
For K13 Factor Rating, Add	9,247.97	
For K20 Factor Rating, Add	12,022.36	
26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	14,536.60	1,327.37
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	594.09	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	891.14	
For K4 Factor Rating, Add	8,317.30	
For K13 Factor Rating, Add	11,881.85	
For K20 Factor Rating, Add	15,446.41	
26 22 13 00-0125 EA 300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	17,712.62	1,645.95
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	721.04	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,081.56	
For K4 Factor Rating, Add	10,094.52	
For K13 Factor Rating, Add	14,420.74	
For K20 Factor Rating, Add	18,746.96	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Transformers			26 22

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 22 13 00-0126	EA 500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	27,720.52 1,184.27 1,776.40 16,579.71 23,685.30 30,790.89		2,017.61	
26 22 13 00-0127	3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0056)				
26 22 13 00-0128	3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0127) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.				
26 22 13 00-0129	EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	2,525.18		477.85	
26 22 13 00-0130	EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,654.22		584.05	
26 22 13 00-0131	EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,166.20		690.24	
26 22 13 00-0132	EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	6,500.27		796.42	
26 22 13 00-0133	EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	9,481.37		955.71	
26 22 13 00-0134	EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	11,413.98		1,061.90	
26 22 13 00-0135	EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,383.24		1,327.37	
26 22 13 00-0136	EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	20,711.35		1,645.95	
26 22 13 00-0137	3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0127) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.				
26 22 13 00-0138	EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	2,840.28		477.85	
26 22 13 00-0139	EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	4,151.74		584.05	
26 22 13 00-0140	EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,923.04		690.24	
26 22 13 00-0141	EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,480.25		796.42	
26 22 13 00-0142	EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	10,995.06		955.71	
26 22 13 00-0143	EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,272.93		1,061.90	
26 22 13 00-0144	EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	15,528.64		1,327.37	
26 22 13 00-0145	EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	24,195.55		1,645.95	
26 22 13 00-0146	NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0056)				
26 22 13 00-0147	Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146) Note: Two taps at 2.5%, four at -2.5%.				
26 22 13 00-0148	150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)				
26 22 13 00-0149	EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,041.48		470.95	
26 22 13 00-0150	EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,710.34		575.61	
26 22 13 00-0151	EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,470.16		680.27	
26 22 13 00-0152	EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,976.05		784.92	
26 22 13 00-0153	EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,973.43		941.90	
26 22 13 00-0154	EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,893.78		1,046.56	
26 22 13 00-0155	EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,101.60		1,308.21	
26 22 13 00-0156	EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	18,399.28		1,622.18	
26 22 13 00-0157	115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)				
26 22 13 00-0158	EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,673.19		470.95	
26 22 13 00-0159	EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,475.52		575.61	
26 22 13 00-0160	EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,403.26		680.27	
26 22 13 00-0161	EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,298.12		784.92	
26 22 13 00-0162	EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,338.01		941.90	
26 22 13 00-0163	EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,233.97		1,046.56	
26 22 13 00-0164	EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	16,247.36		1,308.21	
26 22 13 00-0165	EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,945.76		1,622.18	
26 22 13 00-0166	80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0167	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,302.35	470.95
26 22 13 00-0168	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,242.84	575.61
26 22 13 00-0169	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,336.37	680.27
26 22 13 00-0170	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,618.07	784.92
26 22 13 00-0171	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,059.67	941.90
26 22 13 00-0172	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,574.16	1,046.56
26 22 13 00-0173	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,393.13	1,308.21
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	27,492.25	1,622.18
26 22 13 00-0175		Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0177	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,091.91	470.95
26 22 13 00-0178	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,987.78	575.61
26 22 13 00-0179	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,023.91	680.27
26 22 13 00-0180	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,178.08	784.92
26 22 13 00-0181	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,085.18	941.90
26 22 13 00-0182	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	13,874.87	1,046.56
26 22 13 00-0183	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	18,451.52	1,308.21
26 22 13 00-0184	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	26,134.04	1,622.18
26 22 13 00-0185		115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,721.07	470.95
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,755.09	575.61
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,957.02	680.27
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,500.16	784.92
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	14,435.00	941.90
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	18,181.16	1,046.56
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	23,204.18	1,308.21
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	34,527.71	1,622.18
26 22 13 00-0194		80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0175)		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,352.35	470.95
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,522.40	575.61
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,890.12	680.27
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	10,820.10	784.92
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	17,125.90	941.90
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	22,085.74	1,046.56
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,954.71	1,308.21
26 22 13 00-0202	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	41,231.58	1,622.18



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0203	3 Phase Weathershields (26 22 13 00-0056) Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204	EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	414.61	
26 22 13 00-0205	EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	704.08	
26 22 13 00-0206	EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	704.08	
26 22 13 00-0207	Three Phase Mounting Brackets (26 22 13 00-0056)		
26 22 13 00-0208	EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA	600.75	189.72
26 22 13 00-0209	Pad Mounted Commercial Type Distribution Transformers UL Listed (26 22 13)		
26 22 13 00-0210	Distribution 3 Phase Oil Filled Transformer (26 22 13 00-0209) Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211	Factory Modifications (26 22 13 00-0210) Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212	EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification	759.71	
26 22 13 00-0213	EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	123.54	
26 22 13 00-0214	EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification	494.15	
26 22 13 00-0215	EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	1,423.67	
26 22 13 00-0216	EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification	174.41	
26 22 13 00-0217	EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification	138.07	
26 22 13 00-0218	Accessories For Transformer Liquid Containment Area (26 22 13 00-0210) Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219	EA Containment Area For 75 KVA	4,555.57	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,155.20	
26 22 13 00-0220	EA Containment Area For 112.5 KVA	4,555.57	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,155.20	
26 22 13 00-0221	EA Containment Area For 150 KVA	4,555.57	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,155.20	
26 22 13 00-0222	EA Containment Area For 225 KVA	4,555.57	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,155.20	
26 22 13 00-0223	EA Containment Area For 300 KVA	4,549.36	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,153.34	
26 22 13 00-0224	EA Containment Area For 500 KVA	4,549.36	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,153.34	
26 22 13 00-0225	EA Containment Area For 750 KVA	4,569.71	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,153.34	
26 22 13 00-0226	EA Containment Area For 1,000 KVA	4,864.74	1,732.78
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,153.34	
26 22 13 00-0227	Primary, 4.16/4.8 KV Ground Y Or Delta 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 22 13 00-0210) Note: 7.2 Thru 14.4 KV secondary. Rated to 5 KVA.		
26 22 13 00-0228	EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	5,766.04	1,255.88
26 22 13 00-0229	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,202.06	1,255.88
26 22 13 00-0230	EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,492.73	1,255.88
26 22 13 00-0231	EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	7,364.76	1,255.88
26 22 13 00-0232	EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,353.43	1,883.82
26 22 13 00-0233	EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,644.10	1,883.82
26 22 13 00-0234	EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	12,132.21	1,883.82
26 22 13 00-0235	EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	15,601.56	2,511.76
26 22 13 00-0236	EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted	19,380.34	2,511.76
26 22 13 00-0237	Primary, 4.16/4.8 KV Ground Y Or Delta 208 Y / 120 Volt, 95 BIL (26 22 13 00-0210) Note: 7.2 Thru 14.4 KV secondary. Rated to 5 KVA.		
26 22 13 00-0238	EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	5,911.38	1,255.88
26 22 13 00-0239	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,492.73	1,255.88
26 22 13 00-0240	EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,638.07	1,255.88
26 22 13 00-0241	EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	6,783.41	1,255.88
26 22 13 00-0242	EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,353.43	1,883.82

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0243 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	8,934.78	1,883.82
26 22 13 00-0244 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	12,132.21	1,883.82
26 22 13 00-0245 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	15,746.89	2,511.76
26 22 13 00-0246 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted	19,380.34	2,511.76
26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt (26 22 13 00-0209) Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0248 EA 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	9,878.15	1,631.68
26 22 13 00-0249 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	11,015.30	1,926.23
26 22 13 00-0250 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	12,675.48	2,354.29
26 22 13 00-0251 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	14,860.90	2,648.84
26 22 13 00-0252 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	17,512.57	2,788.17
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	22,315.37	4,073.91
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	25,910.12	4,608.97
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	31,735.14	5,297.66
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	34,582.39	5,562.55
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	37,065.67	6,198.48
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase	41,790.08	6,622.29
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled (26 22 13 00-0209)		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	36,576.01	4,664.02
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	44,561.60	5,363.65
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	50,131.47	5,645.91
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	53,618.30	6,310.17
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled	59,432.25	6,501.38
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase (26 22 13 00-0209) Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	15,621.44	1,926.23
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	17,225.99	2,354.29
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	20,020.88	2,648.84
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	23,586.75	2,788.17
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	29,447.57	4,073.91
26 22 13 00-0271 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	36,480.02	4,608.97
26 22 13 00-0272 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	43,945.14	5,297.66
26 22 13 00-0273 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	49,468.39	5,562.55
26 22 13 00-0274 Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0275 EA Single Phase Foam Core Poly Pads	147.42	33.97
Note: Excludes site prep.		
26 24 Switchboards And Panelboards (26 20)		
26 24 13 Switchboards (26 24) Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002 Incoming Service Section Main Device Only (26 24 13 00-0001) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003 EA 400 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	3,801.39	907.58
26 24 13 00-0004 EA 600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	4,215.29	959.98
26 24 13 00-0005 EA 800 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	6,889.36	1,088.95
26 24 13 00-0006 EA 1,200 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	7,422.27	1,167.40
26 24 13 00-0007 EA 1,600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	12,019.94	1,244.69
26 24 13 00-0008 EA 2,000 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire	13,415.20	1,323.45
26 24 13 00-0009 EA 400 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	4,635.97	907.58
26 24 13 00-0010 EA 600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	5,974.17	959.98
26 24 13 00-0011 EA 800 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	8,370.61	1,089.89
26 24 13 00-0012 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	11,507.15	1,167.40
26 24 13 00-0013 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	12,019.94	1,245.94
26 24 13 00-0014 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	13,415.20	1,323.45
26 24 13 00-0015 EA 2,500 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	16,159.81	1,383.62
26 24 13 00-0016 EA 3,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	18,332.11	1,482.30
26 24 13 00-0017 EA 4,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire	21,667.12	1,597.89
26 24 13 00-0018 EA 400 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire	2,547.32	804.14
26 24 13 00-0019 EA 600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire	2,820.46	856.12
26 24 13 00-0020 EA 800 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire	3,229.70	985.50
26 24 13 00-0021 EA 1,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire	3,487.48	1,026.91
26 24 13 00-0022 EA 1,200 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire	3,719.19	1,063.94
26 24 13 00-0023 EA 1,600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire	4,080.01	1,140.73



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0024 EA 2,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....	4,412.55	1,218.96
26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026 EA 15 - 60 Amp MC Branch Breaker, 240 Volt.....	334.15	31.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.99	
26 24 13 00-0027 EA 70 - 100 Amp MC Branch Breaker, 240 Volt.....	488.97	49.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.88	
26 24 13 00-0028 EA 125 - 225 Amp MC Branch Breaker, 240 Volt.....	1,320.87	90.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.47	
26 24 13 00-0029 EA 100 - 400 Amp MC Branch Breaker, 240 Volt.....	2,352.65	118.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.97	
26 24 13 00-0030 EA 300 - 600 Amp MC Branch Breaker, 240 Volt.....	4,176.60	290.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.29	
26 24 13 00-0031 EA 400 - 800 Amp MC Branch Breaker, 240 Volt.....	6,717.58	290.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.29	
26 24 13 00-0032 EA 600 - 1,200 Amp MC Branch Breaker, 240 Volt.....	10,882.89	517.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.66	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	5,389.09	1,177.67
26 24 13 00-0036 EA 600 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	6,030.83	1,177.67
26 24 13 00-0037 EA 800 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	9,022.95	1,530.45
26 24 13 00-0038 EA 1,200 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	10,240.84	1,530.45
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,422.91	804.14
26 24 13 00-0042 EA 600 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,818.12	856.12
26 24 13 00-0043 EA 800 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,907.00	985.50
26 24 13 00-0044 EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,419.30	1,063.12
26 24 13 00-0045 EA 200/400 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,215.17	804.14
26 24 13 00-0046 EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,351.85	856.12
26 24 13 00-0047 EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	7,552.46	985.50
26 24 13 00-0048 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	10,907.08	1,063.12
26 24 13 00-0049 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	12,814.39	1,193.23
26 24 13 00-0050 EA 200/400 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,372.33	700.27
26 24 13 00-0051 EA 600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,664.24	752.35
26 24 13 00-0052 EA 800 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,127.86	881.75
26 24 13 00-0053 EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,371.52	923.14
26 24 13 00-0054 EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,607.82	959.98
26 24 13 00-0055 EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,917.66	1,026.91
26 24 13 00-0056 EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,221.26	1,088.95
26 24 13 00-0057 EA 2,500 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,240.60	1,348.87
26 24 13 00-0058 EA 3,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,871.18	1,478.56
26 24 13 00-0059 EA 4,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,933.73	1,595.29
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 - 60 Amp MC Branch Breaker, 120 / 240 Volt.....	177.89	27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 24 13 00-0062 EA 70 - 100 Amp MC Branch Breaker, 120 / 240 Volt.....	282.26	45.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.39	
26 24 13 00-0063 EA 125 - 225 Amp MC Branch Breaker, 120 / 240 Volt.....	872.49	63.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.29	
26 24 13 00-0064 EA 100 - 400 Amp MC Branch Breaker, 120 / 240 Volt.....	2,525.47	81.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.18	
26 24 13 00-0065 EA 300 - 600 Amp MC Branch Breaker, 120 / 240 Volt.....	3,966.30	199.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.83	
26 24 13 00-0066 EA 400 - 800 Amp MC Branch Breaker, 120 / 240 Volt.....	5,652.39	199.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.83	
26 24 13 00-0067 EA 600 - 1,200 Amp MC Branch Breaker, 120 / 240 Volt.....	9,311.66	381.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	228.81	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,802.65	907.58
26 24 13 00-0071 EA 600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,213.87	959.98
26 24 13 00-0072 EA 800 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,887.52	1,088.95

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0073 EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	7,420.16	1,167.40
26 24 13 00-0074 EA 1,600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	12,015.15	1,244.69
26 24 13 00-0075 EA 2,000 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire	13,415.20	1,323.45
26 24 13 00-0076 EA 400 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,637.23	907.58
26 24 13 00-0077 EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,972.75	959.98
26 24 13 00-0078 EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	8,370.61	1,089.89
26 24 13 00-0079 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	11,505.04	1,167.40
26 24 13 00-0080 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	12,017.54	1,245.94
26 24 13 00-0081 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	13,415.20	1,323.45
26 24 13 00-0082 EA 400 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,679.74	804.14
26 24 13 00-0083 EA 600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,003.85	856.12
26 24 13 00-0084 EA 800 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,504.83	985.50
26 24 13 00-0085 EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,777.15	1,026.91
26 24 13 00-0086 EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,040.88	1,063.94
26 24 13 00-0087 EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,389.03	1,140.73
26 24 13 00-0088 EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,741.93	1,218.96
26 24 13 00-0089 EA 2,500 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,640.13	1,385.19
26 24 13 00-0090 EA 3,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,249.63	1,482.20
26 24 13 00-0091 EA 4,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	7,407.41	1,592.70
26 24 13 00-0092 Branch Breaker Units (26 24 13 00-0068) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 - 60 Amp MC Branch Breaker, 120/208 Volt.....	334.15	31.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.99	
26 24 13 00-0094 EA 70 - 100 Amp MC Branch Breaker, 120/208 Volt.....	488.97	49.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.88	
26 24 13 00-0095 EA 125 - 225 Amp MC Branch Breaker, 120/208 Volt.....	1,320.87	90.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.47	
26 24 13 00-0096 EA 100 - 400 Amp MC Branch Breaker, 120/208 Volt.....	2,352.65	118.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.97	
26 24 13 00-0097 EA 300 - 600 Amp MC Branch Breaker, 120/208 Volt.....	4,176.60	290.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.29	
26 24 13 00-0098 EA 400 - 800 Amp MC Branch Breaker, 120/208 Volt.....	6,717.58	290.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.29	
26 24 13 00-0099 EA 600 - 1,200 Amp MC Branch Breaker, 120/208 Volt.....	10,882.89	517.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.66	
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0101 Incoming Service Section Main Device Only (26 24 13 00-0100) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	4,916.98	1,244.69
26 24 13 00-0103 EA 600 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	5,404.58	1,323.45
26 24 13 00-0104 EA 800 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	7,760.44	1,477.22
26 24 13 00-0105 EA 1,200 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire	8,489.12	1,581.71
26 24 13 00-0106 EA 400 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	6,333.91	1,244.69
26 24 13 00-0107 EA 600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	8,580.39	1,323.45
26 24 13 00-0108 EA 800 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	9,725.85	1,478.87
26 24 13 00-0109 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	12,333.61	1,581.71
26 24 13 00-0110 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	12,898.91	1,686.61
26 24 13 00-0111 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	14,351.13	1,791.40
26 24 13 00-0112 EA 400 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,679.74	804.14
26 24 13 00-0113 EA 600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,003.85	856.12
26 24 13 00-0114 EA 800 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,504.83	985.50
26 24 13 00-0115 EA 1,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,777.15	1,026.91
26 24 13 00-0116 EA 1,200 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,040.88	1,063.94
26 24 13 00-0117 EA 1,600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,389.03	1,140.73
26 24 13 00-0118 EA 2,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,741.93	1,218.96
26 24 13 00-0119 Branch Breaker Units (26 24 13 00-0100) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 - 60 Amp MC Branch Breaker, 480 / 277 Volt.....	698.11	31.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.99	
26 24 13 00-0121 EA 70 - 100 Amp MC Branch Breaker, 480 / 277 Volt.....	802.15	49.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.88	
26 24 13 00-0122 EA 125 - 225 Amp MC Branch Breaker, 480 / 277 Volt.....	1,454.60	90.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.47	
26 24 13 00-0123 EA 100 - 400 Amp MC Branch Breaker, 480 / 277 Volt.....	2,352.65	118.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.97	
26 24 13 00-0124 EA 300 - 600 Amp MC Branch Breaker, 480 / 277 Volt.....	5,635.84	290.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.29	
26 24 13 00-0125 EA 400 - 800 Amp MC Branch Breaker, 480 / 277 Volt.....	5,766.19	290.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	174.29	
26 24 13 00-0126 EA 600 - 1,200 Amp MC Branch Breaker, 480 / 277 Volt.....	9,242.51	517.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	310.66	



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards And Panelboards		26 24

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0127 Fusible Branch Circuit Switch (26 24 13) Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129 EA 30/30 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit 709.99	709.99	81.46
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0130 EA 30/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit 707.46	707.46	81.46
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0131 EA 60/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit 707.46	707.46	81.46
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0132 EA 60/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit 1,114.22	1,114.22	107.39
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0133 EA 100/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit 1,114.22	1,114.22	107.39
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135 EA 100 Amp, 240 Volt, 2 Pole Single Branch Switch Unit 814.68	814.68	79.89
For Electrical Interlock Kit, Add	283.51	
26 24 13 00-0136 EA 200 Amp, 240 Volt, 2 Pole Single Branch Switch Unit 1,194.85	1,194.85	79.89
For Electrical Interlock Kit, Add	283.51	
26 24 13 00-0137 EA 400 Amp, 240 Volt, 2 Pole Single Branch Switch Unit 3,069.23	3,069.23	215.30
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139 EA 30/30 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit 912.22	912.22	91.82
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0140 EA 30/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit 909.68	909.68	91.82
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0141 EA 60/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit 909.68	909.68	91.82
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0142 EA 60/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit 1,373.28	1,373.28	122.95
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0143 EA 100/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit 1,373.28	1,373.28	122.95
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145 EA 100 Amp, 240 Volt, 3 Pole Single Branch Switch Unit 987.93	987.93	90.27
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0146 EA 200 Amp, 240 Volt, 3 Pole Single Branch Switch Unit 1,607.67	1,607.67	90.27
For Electrical Interlock Kit, Add	283.51	
26 24 13 00-0147 EA 400 Amp, 240 Volt, 3 Pole Single Branch Switch Unit 4,119.68	4,119.68	241.03
26 24 13 00-0148 EA 600 Amp, 240 Volt, 3 Pole Single Branch Switch Unit 5,889.88	5,889.88	308.79
26 24 13 00-0149 EA 800 Amp, 240 Volt, 3 Pole Single Branch Switch Unit 10,992.52	10,992.52	418.36
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit 1,295.98	1,295.98	91.82
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0152 EA 30/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit 1,293.42	1,293.42	91.82
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0153 EA 60/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit 1,295.98	1,295.98	91.82
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0154 EA 60/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit 1,952.33	1,952.33	122.95
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0155 EA 100/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit 1,995.18	1,995.18	122.95
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0156 EA 200/200 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit 4,267.51	4,267.51	160.83
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amp, 600 Volt, 3 Pole Single Branch Switch Unit 1,401.26	1,401.26	90.27
For Electrical Interlock Kit, Add	295.94	
26 24 13 00-0159 EA 200 Amp, 600 Volt, 3 Pole Single Branch Switch Unit 2,132.41	2,132.41	90.27
For Electrical Interlock Kit, Add	283.51	
26 24 13 00-0160 EA 400 Amp, 600 Volt, 3 Pole Single Branch Switch Unit 5,184.08	5,184.08	241.03
For Electrical Interlock Kit, Add	283.51	
26 24 13 00-0161 EA 600 Amp, 600 Volt, 3 Pole Single Branch Switch Unit 6,292.76	6,292.76	308.79
26 24 13 00-0162 EA 800 Amp, 600 Volt, 3 Pole Single Branch Switch Unit 10,992.52	10,992.52	418.36
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volts, 250 Volts DC (26 24 13 00-0163)		
26 24 13 00-0165 600 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC 2,480.87	2,480.87	954.59
26 24 13 00-0167 EA 24 - 30 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC 2,971.82	2,971.82	954.59
26 24 13 00-0168 EA 34 - 38 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC 3,309.25	3,309.25	1,213.98
26 24 13 00-0169 EA 42 - 48 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC 3,644.46	3,644.46	1,213.98

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards And Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0170 800 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,785.92	1,105.04
26 24 13 00-0172 EA 24 - 30 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,263.62	1,105.04
26 24 13 00-0173 EA 34 - 38 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,644.46	1,369.62
26 24 13 00-0174 EA 42 - 48 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,945.58	1,369.62
26 24 13 00-0175 1,200 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,258.07	1,348.87
26 24 13 00-0177 EA 24 - 30 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,747.09	1,348.87
26 24 13 00-0178 EA 34 - 38 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,151.46	1,660.15
26 24 13 00-0179 EA 42 - 48 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,592.61	1,660.15
26 24 13 00-0180 1,600 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,057.18	1,478.56
26 24 13 00-0182 EA 24 - 30 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,636.89	1,478.56
26 24 13 00-0183 EA 34 - 38 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,116.22	1,826.16
26 24 13 00-0184 EA 42 - 48 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,500.52	1,826.16
26 24 13 00-0185 2,000 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,249.53	1,483.75
26 24 13 00-0187 EA 24 - 30 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,874.43	1,670.53
26 24 13 00-0188 EA 34 - 38 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,983.20	1,670.53
26 24 13 00-0189 EA 42 - 48 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,186.81	1,763.90
26 24 13 00-0190 3,000 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0191 EA 24 - 30 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,908.60	1,670.53
26 24 13 00-0192 EA 34 - 38 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	6,015.75	1,670.53
26 24 13 00-0193 EA 42 - 48 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	6,219.36	1,763.90
26 24 13 00-0194 4,000 Amp Main Bus, 4 Wire (26 24 13 00-0164)		
26 24 13 00-0195 EA 24 - 30 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	6,041.62	1,763.90
26 24 13 00-0196 EA 34 - 38 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	6,219.36	1,763.90
26 24 13 00-0197 EA 42 - 48 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	6,292.89	1,763.90
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard	539.65	124.51
26 24 13 00-0200 EA Drilled Bottom	608.20	124.51
26 24 13 00-0201 EA Cable Supports In Pull Box	219.99	31.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		17.29
26 24 13 00-0202 Underground Pull Sections (26 24 13 00-0164)		
<i>Note: Excludes no bus or terminal.</i>		
26 24 13 00-0203 EA 12 - 20" Wide, 15 - 20" Deep Underground Pull Section Without Bus Or Terminal.....	520.53	145.26
26 24 13 00-0204 EA 24 - 28" Wide, 20" Deep Underground Pull Section Without Bus Or Terminal.....	906.63	186.76
26 24 13 00-0205 EA 24 - 28" Wide, 30" Deep Underground Pull Section Without Bus Or Terminal.....	906.63	186.76
26 24 13 00-0206 EA 14 - 20" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	676.86	145.26
26 24 13 00-0207 EA 28 - 30" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	972.36	212.71
26 24 13 00-0208 EA 14 - 20" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,108.29	212.71
26 24 13 00-0209 EA 26 - 30" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,159.81	274.96
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,222.59	274.96
26 24 13 00-0211 Switchboard Sections (26 24 13 00-0163)		
26 24 13 00-0212 EA 600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	4,215.13	864.63
26 24 13 00-0213 EA 800 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	4,617.68	939.85
26 24 13 00-0214 EA 1,200 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	5,788.30	1,200.91
26 24 13 00-0215 EA 1,600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	6,330.88	1,310.06
26 24 13 00-0216 EA 2,000 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	6,752.12	1,394.62
26 24 13 00-0217 EA 400 Amp Switchboard Incoming For Switch Circuit Section 480 Volt	5,047.52	758.48
26 24 13 00-0218 EA Distribution Section Subfeeder Lug-Rated At 200 Amp	2,838.92	720.51
26 24 13 00-0219 EA Distribution Section Subfeeder Lug-Rated At 400 Amp	3,147.78	781.31
26 24 13 00-0220 EA Distribution Section Aluminum Bus 120/208 Or 277/480 Volt, 4 Wire.....	3,258.57	864.63
26 24 13 00-0221 EA 800 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	3,553.29	866.91
26 24 13 00-0222 EA 1,000 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	3,926.17	967.86
26 24 13 00-0223 EA 15 To 60 Amp, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	157.50	51.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		31.69
26 24 13 00-0224 EA 70 To 100 Amp, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	192.49	52.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		37.43
26 24 13 00-0225 EA 70 To 225 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame	910.07	62.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		80.64



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0226 EA 125 To 400 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,512.74 112.29	134.37
26 24 13 00-0227 EA 100 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	598.04 64.85	187.18
26 24 13 00-0228 EA 225 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,709.86 80.64	108.11
26 24 13 00-0229 Switchboard, Structure Per Section Copper 480 V (26 24 13 00-0163)		
26 24 13 00-0230 EA 225 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	2,184.84	450.31
26 24 13 00-0231 EA 400 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	3,111.76	608.96
26 24 13 00-0232 EA 600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	3,483.88	741.15
26 24 13 00-0233 EA 800 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	4,381.00	1,037.59
26 24 13 00-0234 EA 1,200 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	5,427.46	1,296.99
26 24 13 00-0235 EA 1,600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	5,998.20	1,296.99
26 24 13 00-0236 EA 2,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	7,389.16	1,729.35
26 24 13 00-0237 EA 2,500 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	8,483.52	1,729.35
26 24 13 00-0238 EA 3,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	9,972.84	2,058.68
26 24 13 00-0239 EA 4,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	11,986.57	2,058.68
26 24 13 00-0240 Main Devices (26 24 13)		
26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241) Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 - 800 Amp DSL-206, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,729.94 652.30	1,089.47
26 24 13 00-0244 EA 50 - 1,600 Amp DSL-416, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,127.11 1,088.38	1,815.79
26 24 13 00-0245 EA 1,200 - 3,200 Amp DSL-632, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,954.37 1,813.97	3,050.51
26 24 13 00-0246 EA 4,000 Amp DSL-840, Main Breaker With Current Limiter, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,456.65 3,016.25	4,938.93
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,740.47	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed.....	353.92	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed.....	464.32	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	334.44	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241) Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252 EA 50 - 800 Amp DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,073.26 688.06	1,141.35
26 24 13 00-0253 EA 50 - 1,600 Amp DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,882.97 1,146.09	1,919.54
26 24 13 00-0254 EA 1,200 - 3,200 Amp DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,926.58 1,907.34	3,164.65
26 24 13 00-0255 EA 4,000 Amp DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55,433.14 3,189.32	5,187.95
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241) Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 - 800 Amp DS-206, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,135.29 598.61	996.09
26 24 13 00-0258 EA 50 - 1,600 Amp DS-416, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,246.66 997.68	1,670.53
26 24 13 00-0259 EA 2,000 Amp DS-420, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,629.57 1,662.81	2,801.50
26 24 13 00-0260 EA 1,200 - 3,200 AMP DS-632, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,721.34 2,769.37	4,513.52
26 24 13 00-0261 EA 4,000 Amp DS-840, Main Breaker With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,718.23 4,604.69	7,366.90
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241) Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 - 800 Amp DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,267.18 570.94	954.59
26 24 13 00-0264 EA 50 - 1,600 Amp DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,587.49 951.34	1,597.89
26 24 13 00-0265 EA 2,000 Amp DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,298.13 1,588.15	2,656.23
26 24 13 00-0266 EA 1,200 - 3,200 Amp DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,844.27 2,646.92	4,326.75
26 24 13 00-0267 EA 4,000 Amp DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,736.28 4,421.55	7,418.77

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)		
26 24 13 00-0269 EA 70 - 225 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	2,551.84	871.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	502.06	
26 24 13 00-0270 EA 125 - 400 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	3,773.40	871.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	546.10	
26 24 13 00-0271 EA 300 - 600 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	4,187.09	1,037.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	598.61	
26 24 13 00-0272 EA 400 - 800 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	4,991.40	1,037.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	648.49	
26 24 13 00-0273 EA 600 - 1,200 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	7,463.46	1,245.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	710.68	
26 24 13 00-0274 EA 1,000 - 2,000 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	12,141.99	1,245.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	786.05	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	350.68	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	81.18	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	544.78	75.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.11	
26 24 13 00-0279 EA 100 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	641.05	99.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.86	
26 24 13 00-0280 EA 225 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,872.79	150.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.17	
26 24 13 00-0281 EA 400 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,476.90	188.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.11	
26 24 13 00-0282 EA 600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,994.53	252.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	151.69	
26 24 13 00-0283 EA 800 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,613.90	324.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	194.55	
26 24 13 00-0284 EA 1,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,816.56	494.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	296.46	
26 24 13 00-0285 EA 1,200 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	5,816.56	494.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	296.46	
26 24 13 00-0286 EA 1,600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,158.24	691.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	415.04	
26 24 13 00-0287 EA 2,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	10,155.66	1,037.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	622.55	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amp, Switchboard 277/480 Volt Main Breaker.....	6,621.50	450.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	270.21	
26 24 13 00-0290 EA 600 Amp, Switchboard 277/480 Volt Main Breaker.....	6,707.11	493.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.89	
26 24 13 00-0291 EA 800 Amp, Switchboard 277/480 Volt Main Breaker.....	7,203.08	741.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	444.68	
26 24 13 00-0292 EA 1,200 Amp, Switchboard 277/480 Volt Main Breaker.....	12,352.45	1,037.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	622.55	
26 24 13 00-0293 EA 1,600 Amp, Switchboard 277/480 Volt Main Breaker.....	12,572.82	1,147.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	688.67	
26 24 13 00-0294 EA 2,000 Amp, Switchboard 277/480 Volt Main Breaker.....	16,522.83	2,058.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,235.23	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 - 60 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	357.30	37.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 13 00-0298 EA 70 - 100 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	368.45	46.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 13 00-0299 EA 125 - 150 Amp, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	838.82	56.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 13 00-0300 EA 70 - 225 Amp, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,208.83	72.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25	
26 24 13 00-0301 EA 125 - 400 Amp, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,693.79	89.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.77	
26 24 13 00-0302 EA 300 - 600 Amp, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,207.96	104.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.04	
26 24 13 00-0303 EA 900 - 1,000 Amp, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,335.08	118.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.07	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 - 60 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	248.12	28.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 13 00-0306 EA 70 - 100 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	319.95	37.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 13 00-0307 EA 125 - 150 Amp, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	828.10	46.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0308 EA 70 - 225 Amp, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,292.84	51.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.24	
26 24 13 00-0309 EA 125 - 400 Amp, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,377.58	67.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.14	
26 24 13 00-0310 EA 900 - 1,000 Amp, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker	3,075.12	98.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.37	
26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)		
Note: Factory installed accessories.		
26 24 13 00-0312 Instrument Transformers And Metering Compartments (26 24 13 00-0311)		
26 24 13 00-0313 EA 800 Amp And Below Primary Current Transformer, With Compartment.....	423.73	
26 24 13 00-0314 EA 1,000 - 1,500 Amp Primary Current Transformer, With Compartment.....	612.06	
26 24 13 00-0315 EA 2,000 - 6,000 Amp Primary Current Transformer, With Compartment.....	720.83	
26 24 13 00-0316 EA Potential Transformer With 200 VA Max.....	519.52	
26 24 13 00-0317 EA 5 To 800 Amp, Three Current Transformers.....	1,734.18	
26 24 13 00-0318 EA 1,000 To 1,500 Amp, Three Current Transformers.....	3,094.70	
26 24 13 00-0319 EA 2,000 To 4,000 Amp, Three Current Transformers.....	4,026.99	
26 24 13 00-0320 Instruments (26 24 13 00-0311)		
26 24 13 00-0321 EA AC Voltmeter	577.97	
26 24 13 00-0322 EA AC Ammeter	577.97	
26 24 13 00-0323 EA AC Wattmeter	1,543.95	
26 24 13 00-0324 EA Variometer	1,743.64	
26 24 13 00-0325 EA Power Factor Meter	1,392.96	
26 24 13 00-0326 EA Frequency Meter.....	1,537.45	
26 24 13 00-0327 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,956.32	
26 24 13 00-0328 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,272.97	
26 24 13 00-0329 EA Weatherproof, Modify Meter	3,105.88	
26 24 13 00-0330 EA Control Switch Resistor Type 130 V	71.51	
26 24 13 00-0331 EA Metering Instrument Volt, Amp And Watt Hour	3,948.03	
26 24 16 Panelboards (26 24)		
26 24 16 00-0001 Branch Circuit Panelboard (26 24 16)		
Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002 Assembled Lighting And Power Panelboards (26 24 16 00-0001)		
Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0004 EA 100 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity	1,021.30	295.71
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0005 EA 100 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,173.11	295.71
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0006 EA 100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,333.30	409.85
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0007 EA 100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,486.45	409.85
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0008 EA 100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,640.29	513.61
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0009 EA 100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	1,801.52	513.61
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0010 EA 100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	1,947.17	591.43
For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0011 EA 225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,325.52	757.44
For NEMA 3R Panelboard, Add	834.24	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0012 EA 225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	2,479.08	757.44
For NEMA 3R Panelboard, Add	834.24	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0013 EA 225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	3,093.08	866.39
For NEMA 3R Panelboard, Add	834.24	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0014 EA 225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	3,323.50	866.39
For NEMA 3R Panelboard, Add	985.44	
For Door-In-Door (Hinged) Trim Front, Add	104.11	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0015	EA	225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,467.43	975.33
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0016	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,677.30	975.33
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0017	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	3,814.75	1,079.10
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0018	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,027.88	1,079.10
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0019	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,265.82	1,193.23
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0020	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,343.86	1,193.23
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0021	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	4,629.49	1,193.23
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0022		120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0023	EA	50 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,117.88	285.34
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0024	EA	50 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,271.95	285.34
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0025	EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	1,676.96	487.67
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0026	EA	100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	1,833.44	487.67
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0027	EA	100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	1,988.76	596.62
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0028	EA	100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,155.25	596.62
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0029	EA	100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,296.02	715.94
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0030	EA	225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity.....	3,223.92	715.94
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0031	EA	225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity.....	3,365.08	876.77
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0032	EA	225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity.....	3,518.01	876.77
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0033	EA	225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,685.07	985.71
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0034	EA	225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,821.41	985.71
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0035	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	3,966.47	1,079.10
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0036	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,121.59	1,079.10
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0037	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	4,288.41	1,276.24
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
26 24 16 00-0038	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,468.92 985.44 104.11	1,276.24
26 24 16 00-0039	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,665.60 1,025.64 133.06	1,276.24
26 24 16 00-0040	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,788.50 1,025.64 133.06	1,348.87
26 24 16 00-0041		120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0042	EA	100 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity..... For NEMA 3R Panelboard, Add	1,397.43 758.59	337.21
26 24 16 00-0043	EA	100 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... For NEMA 3R Panelboard, Add	1,566.60 758.59	337.21
26 24 16 00-0044	EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... For NEMA 3R Panelboard, Add	1,758.99 758.59	451.36
26 24 16 00-0045	EA	100 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... For NEMA 3R Panelboard, Add	1,961.65 758.59	451.36
26 24 16 00-0046	EA	100 Amp Rating, 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity..... For NEMA 3R Panelboard, Add	2,142.97 758.59	555.11
26 24 16 00-0047	EA	100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity..... For NEMA 3R Panelboard, Add	2,336.50 758.59	555.11
26 24 16 00-0048	EA	100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity..... For NEMA 3R Panelboard, Add	2,519.11 758.59	658.87
26 24 16 00-0049	EA	100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	2,706.79 834.24 60.96	658.87
26 24 16 00-0050	EA	100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	2,882.50 834.24 60.96	773.00
26 24 16 00-0051	EA	100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,084.88 834.24 60.96	773.00
26 24 16 00-0052	EA	100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,290.02 834.24 60.96	892.33
26 24 16 00-0053	EA	100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,492.35 834.24 60.96	892.33
26 24 16 00-0054	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	3,893.29 985.44 104.11	1,079.10
26 24 16 00-0055	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,028.77 985.44 104.11	1,079.10
26 24 16 00-0056	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,265.43 985.44 104.11	1,198.42
26 24 16 00-0057	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,478.49 985.44 104.11	1,198.42
26 24 16 00-0058	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,630.68 1,025.64 133.06	1,307.37
26 24 16 00-0059	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,841.81 1,025.64 133.06	1,307.37
26 24 16 00-0060	EA	400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity..... For NEMA 3R Panelboard, Add For Door-In-Door (Hinged) Trim Front, Add	4,728.77 985.44 104.11	1,160.02

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0061	EA	400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,878.34	1,219.17
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0062	EA	400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,125.34	1,284.02
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0063	EA	400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,354.00	1,359.24
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0064	EA	400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,515.21	1,400.74
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0065	EA	400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,772.43	1,486.35
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0067	EA	50 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	1,672.41	326.84
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0068	EA	50 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	1,843.68	326.84
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0069	EA	50 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,048.37	430.60
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0070	EA	50 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,336.41	430.60
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0071	EA	100 Amp Rating 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	2,749.21	648.50
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0072	EA	100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	2,926.64	648.50
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0073	EA	100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	3,118.17	757.44
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0074	EA	100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,276.95	757.44
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0075	EA	100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,492.20	876.77
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0076	EA	100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,637.92	876.77
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0077	EA	100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	3,877.30	985.71
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0078	EA	100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,083.48	985.71
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0079	EA	225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,399.30	1,141.35
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0080	EA	225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,630.09	1,203.60
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0081	EA	225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,723.57	1,203.60
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0082	EA	225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	5,980.14	1,359.24
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0083	EA	225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	6,166.41	1,359.24
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0084	EA	225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	6,278.43	1,359.24
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0085	EA	400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	6,407.71	1,250.30
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0086	EA	400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	6,657.78	1,322.92
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0087	EA	400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	6,753.87	1,359.24
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0088	EA	400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity.....	7,029.37	1,442.25
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0089	EA	400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity.....	7,214.03	1,483.75
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0090	EA	400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity.....	7,380.37	1,535.64
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0091		480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0092	EA	100 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity	1,583.11	332.03
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0093	EA	100 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	1,807.60	332.03
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0094	EA	100 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	2,023.20	456.54
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0095	EA	100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	2,247.67	456.54
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0096	EA	100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity	2,457.61	570.67
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0097	EA	100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	2,678.36	570.67
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0098	EA	100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity	2,908.34	689.99
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0099	EA	100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	3,119.85	689.99
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0100	EA	100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	3,351.50	819.70
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0101	EA	100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	3,575.45	819.70
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0102	EA	100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	3,782.07	933.83
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0103	EA	100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity	4,002.81	933.83
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0104	EA	225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	4,471.14	1,136.16
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0105	EA	225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	4,691.64	1,136.16
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0106	EA	225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity	4,925.83	1,245.11
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0107	EA	225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,099.14	1,245.11
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0108	EA	225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,358.73	1,374.81
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0109	EA	225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,546.55	1,374.81
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0110 480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0111	EA	50 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	2,017.82	352.78
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0112	EA	50 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,237.39	383.91
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0113	EA	50 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,459.30	477.29
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0114	EA	100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	3,265.82	581.05
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0115	EA	100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	3,492.09	643.31
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0116	EA	100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	3,700.12	695.18
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0117	EA	100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity.....	3,927.33	757.44
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0118	EA	100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,146.75	819.70
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0119	EA	100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,349.21	871.58
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0120	EA	100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,564.94	923.45
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0121	EA	100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	4,796.73	985.71
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0122	EA	100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity.....	5,048.19	1,063.53
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0123	EA	225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	6,432.81	1,182.85
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0124	EA	225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	6,674.75	1,255.48
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0125	EA	225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	6,852.45	1,286.61
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0126	EA	225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity.....	7,122.16	1,369.62
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0127	EA	225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	7,315.77	1,421.50
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0128	EA	225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity.....	7,515.81	1,466.12
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)				



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0130	EA	100 Amp Rating , 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,310.31 758.59	363.16
26 24 16 00-0131	EA	100 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,704.63 758.59	363.16
26 24 16 00-0132	EA	100 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,092.63 758.59	482.48
26 24 16 00-0133	EA	100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,482.56 758.59	482.48
26 24 16 00-0134	EA	100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,876.39 758.59	596.62
26 24 16 00-0135	EA	100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,265.18 758.59	596.62
26 24 16 00-0136	EA	100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,657.89 758.59	715.94
26 24 16 00-0137	EA	100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	5,049.58 834.24	715.94
26 24 16 00-0138	EA	100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	5,463.60 834.24	840.45
26 24 16 00-0139	EA	100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	5,834.85 834.24	840.45
26 24 16 00-0140	EA	100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	6,218.60 834.24	845.63
26 24 16 00-0141	EA	100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	6,617.40 834.24	845.63
26 24 16 00-0142	EA	225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	7,280.59 985.44	1,172.48
26 24 16 00-0143	EA	225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	7,680.37 985.44	1,172.48
26 24 16 00-0144	EA	225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	8,022.37 985.44	1,234.74
26 24 16 00-0145	EA	225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	8,445.45 985.44	1,317.74
26 24 16 00-0146	EA	225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	8,800.71 1,025.64	1,317.74
26 24 16 00-0147	EA	225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	9,254.21 1,025.64	1,442.25
26 24 16 00-0148		277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0149	EA	50 Amp Rating, 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	2,811.63 758.59	446.17
26 24 16 00-0150	EA	50 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,211.70 758.59	446.17
26 24 16 00-0151	EA	50 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	3,602.37 758.59	591.43
26 24 16 00-0152	EA	100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,324.96 758.59	591.43
26 24 16 00-0153	EA	100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity <i>For NEMA 3R Panelboard, Add</i>	4,725.26 758.59	747.07

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0154	EA	100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity	5,125.19	747.07
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0155	EA	100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity	5,517.33	856.01
		For NEMA 3R Panelboard, Add	758.59	
26 24 16 00-0156	EA	100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	5,892.51	856.01
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0157	EA	100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	6,280.96	975.33
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0158	EA	100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	6,685.47	975.33
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0159	EA	100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	7,056.93	1,079.10
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0160	EA	100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity	7,438.45	1,079.10
		For NEMA 3R Panelboard, Add	834.24	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0161	EA	225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	9,938.45	1,276.24
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0162	EA	225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	10,361.53	1,276.24
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0163	EA	225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	10,716.79	1,395.55
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0164	EA	225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity	11,170.29	1,395.55
		For NEMA 3R Panelboard, Add	985.44	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0165	EA	225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity	11,543.05	1,525.26
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0166	EA	225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity	8,199.41	1,525.26
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0167	EA	400 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity	13,813.98	1,698.54
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0168	EA	600 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >400 To 600 Amp Main Breaker, 54 Circuit Capacity	16,856.80	2,038.86
		For NEMA 3R Panelboard, Add	1,025.64	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0169		Unassembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Listed panelboards include the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device).		
26 24 16 00-0170		240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0172	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	622.31	
26 24 16 00-0173	EA	100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	715.08	
26 24 16 00-0174	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	969.55	
		For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0175	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,118.24	
		For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0176	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,264.61	
		For Door-In-Door (Hinged) Trim Front, Add	133.06	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0177 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,412.44	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0178 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,532.70	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0179 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,677.52	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0180 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,809.42	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0181 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,928.73	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0182 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,104.33	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0184 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	924.56	
26 24 16 00-0185 EA 100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,045.99	
26 24 16 00-0186 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,672.76	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0187 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,855.44	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0188 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,026.33	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0189 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,542.53	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0190 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,743.66	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0191 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	3,926.43	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0193 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,269.67	
26 24 16 00-0194 EA 100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,355.05	
26 24 16 00-0195 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,594.09	
26 24 16 00-0196 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,739.71	
26 24 16 00-0197 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,874.36	
26 24 16 00-0198 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,141.80	
26 24 16 00-0199 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,254.05	
26 24 16 00-0200 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,391.47	
26 24 16 00-0201 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,580.08	
26 24 16 00-0202 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,695.00	
26 24 16 00-0203 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,859.14	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0205 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,564.52	
26 24 16 00-0206 EA 100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	1,677.94	
26 24 16 00-0207 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,416.91	
26 24 16 00-0208 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard	2,584.80	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0209	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard		2,744.59	
26 24 16 00-0210	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard		4,245.37	
26 24 16 00-0211	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard		4,439.11	
26 24 16 00-0212	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard		4,620.03	
26 24 16 00-0213		240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0169)			
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers					
26 24 16 00-0214		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)			
26 24 16 00-0215	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		700.63	
26 24 16 00-0216	EA	100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		823.23	
26 24 16 00-0217	EA	100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		925.23	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0218	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,044.47	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0219	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,201.70	
		For Door-In-Door (Hinged) Trim Front, Add		104.11	
26 24 16 00-0220	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,330.03	
		For Door-In-Door (Hinged) Trim Front, Add		133.06	
26 24 16 00-0221	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,533.14	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0222	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,651.16	
		For Door-In-Door (Hinged) Trim Front, Add		104.11	
26 24 16 00-0223	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,781.00	
		For Door-In-Door (Hinged) Trim Front, Add		133.06	
26 24 16 00-0224	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,943.68	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0225	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		2,147.05	
		For Door-In-Door (Hinged) Trim Front, Add		104.11	
26 24 16 00-0226	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		2,545.22	
		For Door-In-Door (Hinged) Trim Front, Add		133.06	
26 24 16 00-0227		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)			
26 24 16 00-0228	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,084.91	
26 24 16 00-0229	EA	100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,223.08	
26 24 16 00-0230	EA	100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		1,396.33	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0231	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		2,076.13	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0232	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		2,247.20	
		For Door-In-Door (Hinged) Trim Front, Add		104.11	
26 24 16 00-0233	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		2,404.45	
		For Door-In-Door (Hinged) Trim Front, Add		133.06	
26 24 16 00-0234	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		3,336.94	
		For Door-In-Door (Hinged) Trim Front, Add		60.96	
26 24 16 00-0235	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		3,523.05	
		For Door-In-Door (Hinged) Trim Front, Add		104.11	
26 24 16 00-0236	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard		3,677.84	
		For Door-In-Door (Hinged) Trim Front, Add		133.06	
26 24 16 00-0237		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)			



Electrical		26
Low-Voltage Electrical Distribution		26 20
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0238 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,347.99	
26 24 16 00-0239 EA 100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,463.19	
26 24 16 00-0240 EA 100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,557.18	
26 24 16 00-0241 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,669.02	
26 24 16 00-0242 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,823.16	
26 24 16 00-0243 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,939.78	
26 24 16 00-0244 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,262.50	
26 24 16 00-0245 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,372.51	
26 24 16 00-0246 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,494.94	
26 24 16 00-0247 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,714.34	
26 24 16 00-0248 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,903.54	
26 24 16 00-0249 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,301.71	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)		
26 24 16 00-0251 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,724.87	
26 24 16 00-0252 EA 100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,855.03	
26 24 16 00-0253 EA 100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,023.96	
26 24 16 00-0254 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,820.28	
26 24 16 00-0255 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,976.56	
26 24 16 00-0256 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,122.71	
26 24 16 00-0257 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,686.16	
26 24 16 00-0258 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,878.68	
26 24 16 00-0259 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	5,044.32	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0169)		
Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0262 EA 125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,010.16	
26 24 16 00-0263 EA 125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,106.88	
26 24 16 00-0264 EA 250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,525.33	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0265 EA 250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,699.29	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0266 EA 250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,849.59	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0267 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,839.36	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0268 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,936.62	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0269 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,102.82	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0270 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,204.85	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0271 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,363.17	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0272 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,579.30	
For Door-In-Door (Hinged) Trim Front, Add	133.06	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0273		Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0274	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,080.14	
26 24 16 00-0275	EA	100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,145.90	
26 24 16 00-0276	EA	125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,329.02	
26 24 16 00-0277	EA	125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,452.20	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	60.96	
26 24 16 00-0278	EA	125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,693.57	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	104.11	
26 24 16 00-0279	EA	250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,501.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	60.96	
26 24 16 00-0280	EA	250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,653.90	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	104.11	
26 24 16 00-0281	EA	250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,848.97	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	133.06	
26 24 16 00-0282	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,963.83	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	60.96	
26 24 16 00-0283	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,163.82	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	104.11	
26 24 16 00-0284	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,346.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	133.06	
26 24 16 00-0285		Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0286	EA	125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,635.32	
26 24 16 00-0287	EA	125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,732.04	
26 24 16 00-0288	EA	250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,135.69	
26 24 16 00-0289	EA	250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,416.93	
26 24 16 00-0290	EA	250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,554.90	
26 24 16 00-0291	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,544.68	
26 24 16 00-0292	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,623.44	
26 24 16 00-0293	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,763.12	
26 24 16 00-0294	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,926.81	
26 24 16 00-0295	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,070.00	
26 24 16 00-0296	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,253.62	
26 24 16 00-0297		Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)		
26 24 16 00-0298	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,838.48	
26 24 16 00-0299	EA	100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,904.24	
26 24 16 00-0300	EA	125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,944.93	
26 24 16 00-0301	EA	125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,062.57	
26 24 16 00-0302	EA	125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,411.22	
26 24 16 00-0303	EA	250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,207.20	
26 24 16 00-0304	EA	250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,340.72	
26 24 16 00-0305	EA	250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,509.28	
26 24 16 00-0306	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,624.14	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0307 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,807.16	
26 24 16 00-0308 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,986.99	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0311 EA 125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,052.08	
26 24 16 00-0312 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,149.42	
26 24 16 00-0313 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,329.06	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0314 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,587.02	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0315 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,762.32	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0316 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,911.42	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0317 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	1,920.94	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0318 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,037.73	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0319 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,202.69	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0320 EA 600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,304.97	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0321 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,463.95	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0322 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled	2,680.86	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0324 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,295.93	
26 24 16 00-0325 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,362.30	
26 24 16 00-0326 EA 100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,559.04	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0327 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,625.63	
26 24 16 00-0328 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,749.34	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0329 EA 125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	2,990.07	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0330 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	3,849.86	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0331 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,003.70	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0332 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,196.71	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0333 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,380.79	
For Door-In-Door (Hinged) Trim Front, Add	60.96	
26 24 16 00-0334 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,582.74	
For Door-In-Door (Hinged) Trim Front, Add	104.11	
26 24 16 00-0335 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled	4,765.03	
For Door-In-Door (Hinged) Trim Front, Add	133.06	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0337 EA 125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,677.24	
26 24 16 00-0338 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,774.58	
26 24 16 00-0339 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	1,944.98	
26 24 16 00-0340 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,197.39	
26 24 16 00-0341 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,479.96	
26 24 16 00-0342 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,616.73	
26 24 16 00-0343 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,628.11	
26 24 16 00-0344 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,724.55	
26 24 16 00-0345 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,863.00	
26 24 16 00-0346 EA 600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	3,026.93	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0347 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	3,170.50	
26 24 16 00-0348 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	3,354.11	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0350 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,906.30	
26 24 16 00-0351 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,972.67	
26 24 16 00-0352 EA 100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,276.69	
26 24 16 00-0353 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,241.55	
26 24 16 00-0354 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,359.71	
26 24 16 00-0355 EA 125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,707.71	
26 24 16 00-0356 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,555.18	
26 24 16 00-0357 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,690.52	
26 24 16 00-0358 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,857.02	
26 24 16 00-0359 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	5,041.09	
26 24 16 00-0360 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	5,225.79	
26 24 16 00-0361 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	5,405.00	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0169)		
Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)		
26 24 16 00-0364 EA 400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,770.79	308.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		185.26
26 24 16 00-0365 EA 400 Amp Rating, 45" Breaker Mounted Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,079.85	308.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		185.21
26 24 16 00-0366 EA 400 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,312.57	308.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		185.21
26 24 16 00-0367 EA 600 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,619.78	506.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		304.15
26 24 16 00-0368 EA 600 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,799.90	506.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		304.15
26 24 16 00-0369 EA 600 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,997.55	506.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		304.15
26 24 16 00-0370 EA 800 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,223.79	673.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		404.30
26 24 16 00-0371 EA 800 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,396.86	675.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		405.53
26 24 16 00-0372 EA 800 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,467.67	673.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		404.30
26 24 16 00-0373 EA 800 Amp Rating, 99" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,039.11	673.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		404.30
26 24 16 00-0374 EA 1,200 Amp Rating, 27" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,248.32	1,013.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		608.30
26 24 16 00-0375 EA 1,200 Amp Rating, 45" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,637.26	1,013.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		608.30
26 24 16 00-0376 EA 1,200 Amp Rating, 63" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,955.26	1,013.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		608.30
26 24 16 00-0377 EA 1,200 Amp Rating, 99" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,343.39	1,013.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		608.30



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 24 16 00-0378	Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)			
26 24 16 00-0379	EA 225 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,455.11		315.31
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.17		
26 24 16 00-0380	EA 400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,542.42		357.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	214.58		
26 24 16 00-0381	EA 400 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,767.18		357.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	214.58		
26 24 16 00-0382	EA 400 Amp Rating, 81" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,428.68		357.61
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	214.58		
26 24 16 00-0383	EA 600 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,066.26		586.21
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	351.75		
26 24 16 00-0384	EA 600 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,437.58		587.83
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	352.69		
26 24 16 00-0385	EA 600 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,743.71		586.21
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	351.75		
26 24 16 00-0386	EA 800 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,929.31		783.71
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	470.25		
26 24 16 00-0387	EA 800 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,369.29		780.96
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	468.59		
26 24 16 00-0388	EA 800 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,807.64		780.96
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	468.59		
26 24 16 00-0389	Branch Circuit Breakers (26 24 16 00-0001)			
	Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.			
26 24 16 00-0390	Branch Circuit Breakers 10,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)			
	Note: Includes connection of electrical wire.			
26 24 16 00-0391	EA 1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	49.21		18.67
	For Bolt-On, Add	13.41		
	For Installation In New Panelboard, Deduct	-10.38		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45		
26 24 16 00-0392	EA 1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	49.21		18.67
	For Bolt-On, Add	13.41		
	For Installation In New Panelboard, Deduct	-10.38		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45		
26 24 16 00-0393	EA 1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	69.68		23.34
	For Bolt-On, Add	17.79		
	For Installation In New Panelboard, Deduct	-12.97		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56		
26 24 16 00-0394	EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	98.22		22.83
	For Bolt-On, Add	20.99		
	For Installation In New Panelboard, Deduct	-12.45		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94		
26 24 16 00-0395	EA 1 Pole GFI, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	133.21		22.83
	For Bolt-On, Add	25.37		
	For Installation In New Panelboard, Deduct	-12.45		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94		
26 24 16 00-0396	EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	153.17		22.83
	For Bolt-On, Add	27.86		
	For Installation In New Panelboard, Deduct	-12.45		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94		
26 24 16 00-0397	EA 1 Pole GFI, 120/240 Volt, 15-20 Amp, "Arc Fault" Circuit Breaker, 10,000 Amp Interrupting Capacity.....	78.94		22.83
	For Bolt-On, Add	18.58		
	For Installation In New Panelboard, Deduct	-12.45		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94		
26 24 16 00-0398	EA 2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	80.05		28.01
	For Bolt-On, Add	20.90		
	For Installation In New Panelboard, Deduct	-15.56		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0399	EA		2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	80.05	28.01
			For Bolt-On, Add	20.90	
			For Installation In New Panelboard, Deduct	-15.56	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0400	EA		2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	118.62	37.36
			For Bolt-On, Add	29.35	
			For Installation In New Panelboard, Deduct	-20.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0401	EA		2 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	189.82	46.69
			For Bolt-On, Add	41.89	
			For Installation In New Panelboard, Deduct	-25.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0402	EA		2 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	222.13	51.88
			For Bolt-On, Add	47.74	
			For Installation In New Panelboard, Deduct	-28.53	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.24	
26 24 16 00-0403	EA		2 Pole GFI, 120/240 Volt, 15-50 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	184.02	33.20
			For Bolt-On, Add	36.08	
			For Installation In New Panelboard, Deduct	-18.68	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.41	
26 24 16 00-0404	EA		2 Pole, GFI, 120/240 Volt, 15-50 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity.....	241.26	33.20
			For Bolt-On, Add	43.23	
			For Installation In New Panelboard, Deduct	-18.68	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.41	
26 24 16 00-0405	EA		3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	145.32	37.36
			For Bolt-On, Add	32.69	
			For Installation In New Panelboard, Deduct	-20.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0406	EA		3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	145.32	37.36
			For Bolt-On, Add	32.69	
			For Installation In New Panelboard, Deduct	-20.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0407	EA		3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	189.48	46.69
			For Bolt-On, Add	41.84	
			For Installation In New Panelboard, Deduct	-25.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0408	EA		3 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	280.23	56.03
			For Bolt-On, Add	56.82	
			For Installation In New Panelboard, Deduct	-31.13	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0409	EA		3 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity	354.84	65.37
			For Bolt-On, Add	69.78	
			For Installation In New Panelboard, Deduct	-36.32	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.58	
26 24 16 00-0410			Branch Circuit Breakers 14,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
			Note: Includes connection of electrical wire.		
26 24 16 00-0411	EA		1 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	67.35	18.67
			For Bolt-On, Add	15.68	
			For Installation In New Panelboard, Deduct	-10.38	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0412	EA		1 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	67.35	18.67
			For Bolt-On, Add	15.68	
			For Installation In New Panelboard, Deduct	-10.38	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0413	EA		1 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	116.04	23.34
			For Bolt-On, Add	23.58	
			For Installation In New Panelboard, Deduct	-12.97	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 24 16 00-0414	EA		1 Pole GFI, 277/480 Volt, 15-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	172.81	22.83
			For Bolt-On, Add	30.32	
			For Installation In New Panelboard, Deduct	-12.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94	
26 24 16 00-0415	EA		2 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity	127.80	28.01
			For Bolt-On, Add	26.87	
			For Installation In New Panelboard, Deduct	-15.57	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0416 EA 2 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	127.80	28.01
For Bolt-On, Add	26.87	
For Installation In New Panelboard, Deduct	-15.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0417 EA 2 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	244.04	37.36
For Bolt-On, Add	45.03	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0418 EA 2 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	330.67	46.69
For Bolt-On, Add	59.49	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0419 EA 2 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	478.51	51.88
For Bolt-On, Add	79.79	
For Installation In New Panelboard, Deduct	-28.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.24	
26 24 16 00-0420 EA 3 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	200.71	37.36
For Bolt-On, Add	39.62	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0421 EA 3 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	200.71	37.36
For Bolt-On, Add	39.62	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0422 EA 3 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	296.23	46.69
For Bolt-On, Add	55.19	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0423 EA 3 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	416.97	56.03
For Bolt-On, Add	73.91	
For Installation In New Panelboard, Deduct	-31.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0424 EA 3 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	636.49	65.37
For Bolt-On, Add	104.98	
For Installation In New Panelboard, Deduct	-36.32	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.58	
26 24 16 00-0425 EA 3 Pole, 277/480 Volt, 175 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	732.20	70.04
For Bolt-On, Add	118.76	
For Installation In New Panelboard, Deduct	-38.91	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.69	
26 24 16 00-0426 EA 3 Pole, 277/480 Volt, 200 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	786.40	74.70
For Bolt-On, Add	127.35	
For Installation In New Panelboard, Deduct	-41.51	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.81	
26 24 16 00-0427 EA 3 Pole, 277/480 Volt, 225 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	926.69	79.37
For Bolt-On, Add	146.71	
For Installation In New Panelboard, Deduct	-44.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.92	
26 24 16 00-0428 Branch Circuit Breakers 18,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0429 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	79.27	18.67
For Bolt-On, Add	17.17	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0430 EA 1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	79.27	18.67
For Bolt-On, Add	17.17	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0431 EA 1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	127.81	23.34
For Bolt-On, Add	25.06	
For Installation In New Panelboard, Deduct	-12.97	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 24 16 00-0432 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	158.85	28.01
For Bolt-On, Add	30.75	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0433 EA 2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	158.85	28.01
For Bolt-On, Add	30.75	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0434 EA 2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	273.82	37.36
For Bolt-On, Add	48.75	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0435 EA 2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	681.77	46.69
For Bolt-On, Add	103.38	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0436 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	251.96	37.36
For Bolt-On, Add	46.02	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0437 EA 3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	251.96	37.36
For Bolt-On, Add	46.02	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0438 EA 3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	333.53	46.69
For Bolt-On, Add	59.85	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0439 EA 3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity	843.24	56.03
For Bolt-On, Add	127.19	
For Installation In New Panelboard, Deduct	-31.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0440 Branch Circuit Breakers 22,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0441 EA 1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	89.38	18.67
For Bolt-On, Add	18.44	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0442 EA 1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	89.38	18.67
For Bolt-On, Add	18.44	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0443 EA 1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	105.91	23.34
For Bolt-On, Add	22.32	
For Installation In New Panelboard, Deduct	-12.97	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 24 16 00-0444 EA 1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	171.45	22.83
For Bolt-On, Add	30.15	
For Installation In New Panelboard, Deduct	-12.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94	
26 24 16 00-0445 EA 2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	185.25	28.01
For Bolt-On, Add	34.05	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0446 EA 2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	185.25	28.01
For Bolt-On, Add	34.05	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0447 EA 2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	226.00	37.36
For Bolt-On, Add	42.78	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0448 EA 2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	322.96	46.69
For Bolt-On, Add	58.53	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0449 EA 2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	414.16	51.88
For Bolt-On, Add	71.74	
For Installation In New Panelboard, Deduct	-28.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.24	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0450	EA		2 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	515.75	60.70
			For Bolt-On, Add	88.07	
			For Installation In New Panelboard, Deduct	-33.72	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.47	
26 24 16 00-0451	EA		2 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	558.24	70.04
			For Bolt-On, Add	97.02	
			For Installation In New Panelboard, Deduct	-38.91	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.69	
26 24 16 00-0452	EA		3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	226.44	37.36
			For Bolt-On, Add	42.83	
			For Installation In New Panelboard, Deduct	-20.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0453	EA		3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	226.44	37.36
			For Bolt-On, Add	42.83	
			For Installation In New Panelboard, Deduct	-20.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0454	EA		3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	266.73	46.69
			For Bolt-On, Add	51.50	
			For Installation In New Panelboard, Deduct	-25.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0455	EA		3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	399.50	56.03
			For Bolt-On, Add	71.73	
			For Installation In New Panelboard, Deduct	-31.13	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0456	EA		3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	523.89	72.63
			For Bolt-On, Add	93.63	
			For Installation In New Panelboard, Deduct	-40.21	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25	
26 24 16 00-0457	EA		3 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	645.15	84.04
			For Bolt-On, Add	113.33	
			For Installation In New Panelboard, Deduct	-46.69	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03	
26 24 16 00-0458	EA		3 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity	685.84	89.23
			For Bolt-On, Add	120.23	
			For Installation In New Panelboard, Deduct	-49.29	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.14	
26 24 16 00-0459			Branch Circuit Breakers 25,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
			Note: Includes connection of electrical wire.		
26 24 16 00-0460	EA		2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	191.84	28.01
			For Bolt-On, Add	34.87	
			For Installation In New Panelboard, Deduct	-15.56	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0461	EA		2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	191.84	28.01
			For Bolt-On, Add	34.87	
			For Installation In New Panelboard, Deduct	-15.56	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0462	EA		2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	289.75	37.36
			For Bolt-On, Add	50.75	
			For Installation In New Panelboard, Deduct	-20.75	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0463	EA		2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	465.44	46.69
			For Bolt-On, Add	76.34	
			For Installation In New Panelboard, Deduct	-25.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0464	EA		2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	719.67	58.10
			For Bolt-On, Add	112.66	
			For Installation In New Panelboard, Deduct	-32.43	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.91	
26 24 16 00-0465	EA		2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	813.73	60.70
			For Bolt-On, Add	125.32	
			For Installation In New Panelboard, Deduct	-33.72	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.47	
26 24 16 00-0466	EA		2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	890.53	70.04
			For Bolt-On, Add	138.55	
			For Installation In New Panelboard, Deduct	-38.91	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.69	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0467 EA 3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	274.63	37.36
For Bolt-On, Add	48.86	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0468 EA 3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	274.63	37.36
For Bolt-On, Add	48.86	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0469 EA 3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	345.80	46.69
For Bolt-On, Add	61.38	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0470 EA 3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	578.24	56.03
For Bolt-On, Add	94.07	
For Installation In New Panelboard, Deduct	-31.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0471 EA 3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	841.57	72.63
For Bolt-On, Add	133.34	
For Installation In New Panelboard, Deduct	-40.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25	
26 24 16 00-0472 EA 3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	993.53	84.04
For Bolt-On, Add	156.87	
For Installation In New Panelboard, Deduct	-46.69	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03	
26 24 16 00-0473 EA 3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity	1,074.09	89.23
For Bolt-On, Add	168.76	
For Installation In New Panelboard, Deduct	-49.29	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.14	
26 24 16 00-0474 Branch Circuit Breakers 30,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0475 EA 2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	198.40	28.01
For Bolt-On, Add	35.69	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0476 EA 2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	198.40	28.01
For Bolt-On, Add	35.69	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0477 EA 2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	350.26	37.36
For Bolt-On, Add	58.31	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0478 EA 2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	633.22	46.69
For Bolt-On, Add	97.31	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0479 EA 2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	997.01	58.10
For Bolt-On, Add	147.32	
For Installation In New Panelboard, Deduct	-32.43	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.91	
26 24 16 00-0480 EA 2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	1,132.70	60.70
For Bolt-On, Add	165.19	
For Installation In New Panelboard, Deduct	-33.72	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.47	
26 24 16 00-0481 EA 2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	1,234.74	70.04
For Bolt-On, Add	181.58	
For Installation In New Panelboard, Deduct	-38.91	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.69	
26 24 16 00-0482 EA 3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	320.01	37.36
For Bolt-On, Add	54.53	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0483 EA 3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity	320.01	37.36
For Bolt-On, Add	54.53	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 24 16 00-0484	EA 3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	424.46		46.69
	For Bolt-On, Add	71.22		
	For Installation In New Panelboard, Deduct	-25.94		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13		
26 24 16 00-0485	EA 3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	769.95		56.03
	For Bolt-On, Add	118.03		
	For Installation In New Panelboard, Deduct	-31.13		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35		
26 24 16 00-0486	EA 3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	973.35		72.63
	For Bolt-On, Add	149.81		
	For Installation In New Panelboard, Deduct	-40.21		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25		
26 24 16 00-0487	EA 3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	1,541.18		84.04
	For Bolt-On, Add	225.33		
	For Installation In New Panelboard, Deduct	-46.69		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.03		
26 24 16 00-0488	EA 3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	1,641.12		89.23
	For Bolt-On, Add	239.64		
	For Installation In New Panelboard, Deduct	-49.29		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.14		
26 24 16 00-0489 Branch Circuit Breakers 35,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)				
	Note: Includes connection of electrical wire.			
26 24 16 00-0490	EA 1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	105.90		18.67
	For Bolt-On, Add	20.50		
	For Installation In New Panelboard, Deduct	-10.38		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45		
26 24 16 00-0491	EA 1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	105.90		18.67
	For Bolt-On, Add	20.50		
	For Installation In New Panelboard, Deduct	-10.38		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45		
26 24 16 00-0492	EA 1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	179.88		23.34
	For Bolt-On, Add	31.56		
	For Installation In New Panelboard, Deduct	-12.97		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56		
26 24 16 00-0493	EA 2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	225.24		28.01
	For Bolt-On, Add	39.05		
	For Installation In New Panelboard, Deduct	-15.56		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68		
26 24 16 00-0494	EA 2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	225.24		28.01
	For Bolt-On, Add	39.05		
	For Installation In New Panelboard, Deduct	-15.56		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68		
26 24 16 00-0495	EA 2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	405.80		37.36
	For Bolt-On, Add	65.25		
	For Installation In New Panelboard, Deduct	-20.75		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90		
26 24 16 00-0496	EA 2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	744.16		46.69
	For Bolt-On, Add	111.18		
	For Installation In New Panelboard, Deduct	-25.94		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13		
26 24 16 00-0497	EA 2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	1,435.18		58.10
	For Bolt-On, Add	202.10		
	For Installation In New Panelboard, Deduct	-32.43		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.91		
26 24 16 00-0498	EA 3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	368.44		37.36
	For Bolt-On, Add	60.58		
	For Installation In New Panelboard, Deduct	-20.75		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90		
26 24 16 00-0499	EA 3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	368.44		37.36
	For Bolt-On, Add	60.58		
	For Installation In New Panelboard, Deduct	-20.75		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90		
26 24 16 00-0500	EA 3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	491.75		46.69
	For Bolt-On, Add	79.63		
	For Installation In New Panelboard, Deduct	-25.94		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0501 EA 3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	916.18	56.03
For Bolt-On, Add	136.31	
For Installation In New Panelboard, Deduct	-31.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0502 EA 3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity.....	1,784.34	72.63
For Bolt-On, Add	251.19	
For Installation In New Panelboard, Deduct	-40.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25	
26 24 16 00-0503 Branch Circuit Breakers 42,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		
26 24 16 00-0504 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	152.44	18.67
For Bolt-On, Add	26.32	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0505 EA 1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	152.44	18.67
For Bolt-On, Add	26.32	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0506 EA 1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	229.38	23.34
For Bolt-On, Add	37.75	
For Installation In New Panelboard, Deduct	-12.97	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 24 16 00-0507 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	279.08	28.01
For Bolt-On, Add	45.78	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0508 EA 2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	279.08	28.01
For Bolt-On, Add	45.78	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0509 EA 2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	521.71	37.36
For Bolt-On, Add	79.74	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0510 EA 2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	940.82	46.69
For Bolt-On, Add	135.76	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0511 EA 2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	1,863.88	51.88
For Bolt-On, Add	252.96	
For Installation In New Panelboard, Deduct	-28.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.24	
26 24 16 00-0512 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	476.33	37.36
For Bolt-On, Add	74.07	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0513 EA 3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	476.33	37.36
For Bolt-On, Add	74.07	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0514 EA 3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	658.44	46.69
For Bolt-On, Add	100.46	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0515 EA 3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	1,062.41	56.03
For Bolt-On, Add	154.59	
For Installation In New Panelboard, Deduct	-31.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0516 EA 3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity.....	2,354.32	72.63
For Bolt-On, Add	322.44	
For Installation In New Panelboard, Deduct	-40.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25	
26 24 16 00-0517 Branch Circuit Breakers 65,000 Amp Interrupting Capacity, Plug-On (26 24 16 00-0389)		
Note: Includes connection of electrical wire.		



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0518 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	72.11	18.67
For Bolt-On, Add	16.28	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0519 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	148.51	28.01
For Bolt-On, Add	29.46	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0520 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	233.28	37.36
For Bolt-On, Add	43.69	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0521 EA 1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	144.46	18.67
For Bolt-On, Add	25.32	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0522 EA 1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	144.46	18.67
For Bolt-On, Add	25.32	
For Installation In New Panelboard, Deduct	-10.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 24 16 00-0523 EA 1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	287.74	37.36
For Bolt-On, Add	50.49	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0524 EA 2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	323.43	28.01
For Bolt-On, Add	51.32	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0525 EA 2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	323.43	28.01
For Bolt-On, Add	51.32	
For Installation In New Panelboard, Deduct	-15.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.68	
26 24 16 00-0526 EA 2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	621.66	37.36
For Bolt-On, Add	92.23	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0527 EA 2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	1,051.75	46.69
For Bolt-On, Add	149.63	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0528 EA 2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	2,306.17	58.10
For Bolt-On, Add	310.97	
For Installation In New Panelboard, Deduct	-32.43	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.91	
26 24 16 00-0529 EA 3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	539.77	37.36
For Bolt-On, Add	82.00	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0530 EA 3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	539.77	37.36
For Bolt-On, Add	82.00	
For Installation In New Panelboard, Deduct	-20.75	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.90	
26 24 16 00-0531 EA 3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	750.54	46.69
For Bolt-On, Add	111.98	
For Installation In New Panelboard, Deduct	-25.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 24 16 00-0532 EA 3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	1,143.09	56.03
For Bolt-On, Add	164.68	
For Installation In New Panelboard, Deduct	-31.13	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.35	
26 24 16 00-0533 EA 3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity.....	2,867.60	72.63
For Bolt-On, Add	386.60	
For Installation In New Panelboard, Deduct	-40.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.25	
26 24 16 00-0534 Residential Lighting And Power Panelboards (26 24 16 00-0001)		
26 24 16 00-0535 Residential Type Unassembled Load Center (26 24 16 00-0534)		
Note: Interior box and cover, includes ground bar kit.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards And Panelboards



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0536	Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase (26 24 16 00-0535)			
26 24 16 00-0537	EA	30 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	142.75	51.88
26 24 16 00-0538	EA	70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	472.97	207.52
26 24 16 00-0539	EA	100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	717.85	296.23
26 24 16 00-0540	EA	125 Amp, 24 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	1,536.23	622.66
26 24 16 00-0541	EA	150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled.....	1,681.16	674.44
26 24 16 00-0542	Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)			
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.				
26 24 16 00-0543	EA	60 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	201.42	57.07
26 24 16 00-0544	EA	125 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	367.44	62.25
26 24 16 00-0545	Main Lug Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof (26 24 16 00-0535)			
26 24 16 00-0546	EA	40 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	204.99	57.07
26 24 16 00-0547	EA	70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	228.89	62.25
26 24 16 00-0548	EA	100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	789.30	296.23
26 24 16 00-0549	EA	150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled	1,789.89	674.44
26 24 16 00-0550	Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)			
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.				
26 24 16 00-0551	EA	60 A, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled.....	255.79	57.07
26 24 16 00-0552	EA	125 A, 20 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	1,735.20	622.66
26 24 16 00-0553	Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase (26 24 16 00-0535)			
26 24 16 00-0554	EA	125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	1,874.84	622.66
26 24 16 00-0555	EA	150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	2,035.30	674.44
26 24 16 00-0556	EA	300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled	7,378.88	1,037.59
26 24 16 00-0557	Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)			
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V Delta.				
26 24 16 00-0558	EA	125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	2,776.96	622.66
26 24 16 00-0559	EA	150 Amp, 40 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	3,029.84	674.44
26 24 16 00-0560	EA	300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled.....	8,137.95	1,037.59
26 24 16 00-0561	Main Breaker Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof (26 24 16 00-0535)			
26 24 16 00-0562	EA	125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	1,975.80	622.66
26 24 16 00-0563	EA	150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled.....	2,207.71	674.44
26 24 16 00-0564	Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC (26 24 16 00-0535)			
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.				
26 24 16 00-0565	EA	125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	2,944.40	622.66
26 24 16 00-0566	EA	155 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled	3,048.01	674.44
26 24 16 00-0567	Residential Type Assembled Load Center (26 24 16 00-0534)			
26 24 16 00-0568	Main Lug Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase (26 24 16 00-0567)			
Note: Includes 1 pole plug-in breaker.				
26 24 16 00-0569	EA	100 Amp Main Lugs, Indoor 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	718.31	296.23
26 24 16 00-0570	EA	100 Amp Main Lugs, Indoor 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	876.94	346.04
26 24 16 00-0571	EA	100 Amp Main Lugs, Rainproof, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	735.40	296.23
26 24 16 00-0572	EA	100 Amp Main Lugs, Rainproof, 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	881.60	346.04
26 24 16 00-0573	EA	200 Amp Main Lugs, Indoor, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,285.93	461.20
26 24 16 00-0574	EA	200 Amp Main Lugs, Indoor, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,515.62	553.56
26 24 16 00-0575	EA	200 Amp Main Lugs, Indoor, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,732.29	638.64
26 24 16 00-0576	EA	200 Amp Main Lugs, Indoor, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,910.82	691.35
26 24 16 00-0577	EA	200 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	2,859.57	1,037.59
26 24 16 00-0578	EA	200 Amp Main Lugs, Rainproof, 16 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,346.51	461.20
26 24 16 00-0579	EA	200 Amp Main Lugs, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,573.09	553.56
26 24 16 00-0580	EA	200 Amp Main Lugs, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,789.76	638.64
26 24 16 00-0581	EA	200 Amp Main Lugs, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,965.19	691.35
26 24 16 00-0582	EA	200 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,038.19	1,037.59



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0583 EA 400 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,540.59	1,152.87
26 24 16 00-0584 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	3,726.98	1,152.87
26 24 16 00-0585 Main Lug Load Center, 4 Wire, 20 Amp, 120/208 V (26 24 16 00-0567)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0586 EA 125 Amp Main Lugs, Indoor, 12 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	963.92	346.04
26 24 16 00-0587 EA 125 Amp Main Lugs, Indoor, 18 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,436.77	518.80
26 24 16 00-0588 EA 125 Amp Main Lugs, Rainproof, 12 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,015.17	346.04
26 24 16 00-0589 EA 125 Amp Main Lugs, Rainproof, 18 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,483.37	518.80
26 24 16 00-0590 EA 200 Amp Main Lugs, Indoor, 24 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,820.82	638.64
26 24 16 00-0591 EA 200 Amp Main Lugs, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,989.21	691.77
26 24 16 00-0592 EA 200 Amp Main Lugs, Indoor, 36 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,437.30	830.38
26 24 16 00-0593 EA 200 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,921.70	1,037.59
26 24 16 00-0594 EA 200 Amp Main Lugs, Rainproof, 24 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	1,875.19	638.64
26 24 16 00-0595 EA 200 Amp Main Lugs, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,050.61	691.35
26 24 16 00-0596 EA 200 Amp Main Lugs, Rainproof, 36 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,645.93	829.76
26 24 16 00-0597 EA 200 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,131.39	1,037.59
26 24 16 00-0598 EA 400 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,587.19	1,152.87
26 24 16 00-0599 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,773.57	1,152.87
26 24 16 00-0600 Main Breaker Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase (26 24 16 00-0567)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0601 EA 125 Amp Main Breaker, Indoor, 12 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	957.70	346.04
26 24 16 00-0602 EA 125 Amp Main Breaker, Indoor, 18 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,415.03	518.80
26 24 16 00-0603 EA 200 Amp Main Breaker, Indoor, 20 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,642.99	553.56
26 24 16 00-0604 EA 200 Amp Main Breaker, Indoor, 24 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	1,883.58	638.95
26 24 16 00-0605 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers	2,074.64	691.77
26 24 16 00-0606 EA 200 Amp Main Breaker, Indoor, 40 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,745.82	922.42
26 24 16 00-0607 EA 200 Amp Main Breaker, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,658.52	553.56
26 24 16 00-0608 EA 200 Amp Main Breaker, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	1,914.02	638.64
26 24 16 00-0609 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,081.68	691.35
26 24 16 00-0610 EA 200 Amp Main Breaker, Rainproof, 40 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	2,660.39	922.42
26 24 16 00-0611 EA 400 Amp Main Breaker, Indoor, 42 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	5,140.43	1,152.87
26 24 16 00-0612 EA 400 Amp Main Breaker, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker	5,451.08	1,152.87
26 24 16 00-0613 Main Breaker Load Center, 4 Wire, 20 Amp, 120/208 V (26 24 16 00-0567)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0614 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,509.55	691.77
26 24 16 00-0615 EA 200 Amp Main Breaker, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,418.74	1,037.59
26 24 16 00-0616 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	2,602.02	691.35
26 24 16 00-0617 EA 200 Amp Main Breaker, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker	3,511.93	1,037.59
26 24 16 00-0618 Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0619 Midget Finger-Safe Fuse Holders (26 24 16 00-0618)		
Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0620 EA 1 Pole Midget Finger-Safe Fuse Holder	56.19	18.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.45
26 24 16 00-0621 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder	63.15	18.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.45
26 24 16 00-0622 EA 2 Pole Midget Finger-Safe Fuse Holder	88.71	28.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.68
26 24 16 00-0623 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder	106.88	28.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.68
26 24 16 00-0624 EA 3 Pole Midget Finger-Safe Fuse Holder	126.88	37.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.90
26 24 16 00-0625 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder	151.01	37.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.90
26 24 16 00-0626 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	171.19	37.36
Note: With indicators.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.90
26 24 16 00-0627 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	144.44	37.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.90
26 24 16 00-0628 EA 4 Pole Midget Finger-Safe Fuse Holder	159.47	46.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		31.13
26 24 16 00-0629 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder	185.97	46.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		31.13
26 24 16 00-0630 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder	63.18	18.67
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.45
26 24 16 00-0631 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder	66.87	18.67
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.45
26 24 16 00-0632 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder	63.86	18.67
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		12.45

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0633		Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0634	EA	Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers.....	1,303.25	
		Note: Includes removal and reinstallation of main wiring to panelboard.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	389.10	
26 24 16 00-0635	EA	Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage.....	69.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.23	
26 24 16 00-0636	EA	Panelboard Filler Plate, Fits 1" Opening.....	5.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.98	
26 24 19		Motor-Control Centers (26 24)		
26 24 19 00-0001		Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
26 24 19 00-0002		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit	1,947.52	94.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0004	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit	2,304.53	99.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.76	
26 24 19 00-0005	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit	3,422.75	104.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.61	
26 24 19 00-0006	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	6,194.85	123.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.99	
26 24 19 00-0007	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	12,460.49	142.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0008	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	20,956.40	189.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0009		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit	1,947.52	94.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0011	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit	2,304.53	99.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.76	
26 24 19 00-0012	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	3,422.75	104.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.61	
26 24 19 00-0013	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	6,194.85	123.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.99	
26 24 19 00-0014	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	12,460.49	142.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0015	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit	20,956.40	189.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0016		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0017	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit	2,815.39	94.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0018	EA	230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit	3,747.91	99.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.76	
26 24 19 00-0019	EA	230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit	5,366.26	104.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.61	
26 24 19 00-0020	EA	230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	9,379.49	123.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.99	
26 24 19 00-0021	EA	230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	18,445.48	142.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0022	EA	230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	31,779.03	189.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0023		480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 1-Speed reversing.		
26 24 19 00-0024	EA	480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit	2,815.39	94.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0025	EA	480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit	3,747.91	99.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.76	
26 24 19 00-0026	EA	480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	5,366.26	104.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.61	
26 24 19 00-0027	EA	480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	9,379.49	123.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.99	
26 24 19 00-0028	EA	480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	18,445.48	142.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0029	EA	480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit	31,779.03	189.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0030		230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit 3,431.17 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 91.06		151.77
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit 4,711.50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 96.75		161.26
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit 6,925.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 102.44		170.74
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 12,358.89 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 116.67		194.46
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 20,458.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 136.60		227.66
26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit 3,431.17 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 91.06		151.77
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 4,711.50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 96.75		161.26
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 6,925.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 102.44		170.74
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 12,358.89 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 116.67		194.46
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 20,458.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 136.60		227.66
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit 3,949.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 56.92		94.85
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit 5,871.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.76		99.60
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit 8,032.39 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.61		104.34
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 15,077.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 73.99		123.31
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 26,111.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 85.37		142.28
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit 3,949.88 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 56.92		94.85
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 5,871.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.76		99.60
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 8,032.39 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.61		104.34
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 15,077.64 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 73.99		123.31
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 26,111.05 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 85.37		142.28
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit 5,834.85		99.60
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit 8,926.29		109.08
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 15,035.35		123.31
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 23,250.02		142.28
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 39,766.37		189.72
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit 5,834.85		99.60
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 8,926.29		109.08
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 15,035.35		123.31
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 23,250.02		142.28
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit 39,766.37		189.72
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit 3,999.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 91.06		151.77
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit 5,162.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 105.29		175.49
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit 9,058.41 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 116.67		194.46
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit 15,422.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 142.28		237.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,184.08 182.13	303.54
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,999.33 91.06	151.77
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,162.86 105.29	175.49
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,058.41 116.67	194.46
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,422.97 142.28	237.15
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,184.08 182.13	303.54
26 24 19 00-0078 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, energy saver.		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,438.28 73.99	123.31
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17,442.12 91.06	151.77
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19,262.06 105.29	175.49
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29,151.80 116.67	194.46
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39,752.74 142.28	237.15
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53,944.32 182.13	303.54
26 24 19 00-0085 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, energy saver.		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,438.28 73.99	123.31
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17,442.12 91.06	151.77
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19,262.06 105.29	175.49
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29,151.80 116.67	194.46
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39,752.74 142.28	237.15
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53,944.32 182.13	303.54
26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,600.26 56.92	94.85
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,957.27 59.76	99.60
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,564.59 62.61	104.34
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8,399.46 73.99	123.31
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15,023.64 85.37	142.28
26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24,481.20 113.83	189.72
26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,600.26 56.92	94.85
26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,957.27 59.76	99.60
26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,564.59 62.61	104.34
26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,399.46 73.99	123.31
26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,023.64 85.37	142.28
26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,481.20 113.83	189.72
26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,462.62 56.92	94.85
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,387.78 59.76	99.60
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,482.36 62.61	104.34
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,554.68 73.99	123.31
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,957.15 85.37	142.28
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,462.62 56.92	94.85
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,387.78 59.76	99.60
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,482.36 62.61	104.34
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,554.68 73.99	123.31
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,957.15 85.37	142.28
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,067.36 91.06	151.77
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,338.50 96.75	161.26
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,023.59 102.44	170.74
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,508.34 116.67	194.46
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,950.07 136.60	227.66
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,067.36 91.06	151.77
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,338.50 96.75	161.26
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,023.59 102.44	170.74
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,508.34 116.67	194.46
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,950.07 136.60	227.66
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 1 wind.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit .....4,680.92	142.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit .....6,591.91	151.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.06	
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit .....9,238.40	161.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.75	
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit .....17,324.66	184.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.98	
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit .....28,704.65	218.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.91	
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit .....4,680.92	142.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit .....6,591.91	151.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.06	
26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit .....9,238.40	161.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.75	
26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit .....17,324.66	184.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.98	
26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit .....28,704.65	218.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	130.91	
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit .....6,452.65	99.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.76	
26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit .....10,382.54	109.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.45	
26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit .....17,537.83	123.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.99	
26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit .....26,561.53	142.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit .....43,695.69	189.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0150 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit .....6,452.65	99.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.76	
26 24 19 00-0151 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit .....10,382.54	109.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.45	
26 24 19 00-0152 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit .....17,537.83	123.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.99	
26 24 19 00-0153 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit .....26,561.53	142.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.37	
26 24 19 00-0154 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit .....43,695.69	189.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Reduced volt, part winding.		
26 24 19 00-0156 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit .....4,635.52	151.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.06	
26 24 19 00-0157 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit .....5,786.18	175.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.29	
26 24 19 00-0158 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit .....10,148.77	194.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	116.67	
26 24 19 00-0159 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit .....17,956.71	237.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.28	
26 24 19 00-0160 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit .....26,483.23	303.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.13	
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Reduced volt, part winding.		
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit .....4,635.52	151.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.06	
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit .....5,786.18	175.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.29	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit10,148.77 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 116.67		194.46
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit .....17,956.71 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 142.28		237.15
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit .....26,483.23 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 182.13		303.54
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit .....16,965.99 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 73.99		123.31
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit .....17,964.31 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 91.06		151.77
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit .....19,765.87 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 105.29		175.49
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit .....29,569.19 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 116.67		194.46
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit .....40,076.35 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 142.28		237.15
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit .....56,163.64 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 182.13		303.54
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit .....16,966.03 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 74.00		123.31
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit .....17,964.31 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 91.06		151.77
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit .....19,765.87 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 105.29		175.49
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit .....29,569.19 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 116.67		194.46
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit .....40,076.35 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 142.28		237.15
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit .....56,163.64 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 182.13		303.54
26 24 19 00-0181 Combination Starters With Fusible Switch (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....1,734.23 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 56.92		94.85
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....2,387.27 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 59.76		99.60
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....4,014.81 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 62.61		104.34
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....7,071.91 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 73.99		123.31
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....11,471.26 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 85.37		142.28
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....20,450.76 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 113.83		189.72
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....1,734.23 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 56.92		94.85
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....2,387.27 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 59.76		99.60
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....4,014.81 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 62.61		104.34
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....7,071.91 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 73.99		123.31
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing .....11,471.26 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 85.37		142.28

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,450.76 113.83	189.72
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,791.49 56.92	94.85
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,152.43 59.76	99.60
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,634.97 62.61	104.34
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,806.32 73.99	123.31
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,617.80 85.37	142.28
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,239.52 113.83	189.72
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,791.49 56.92	94.85
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,152.43 59.76	99.60
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,634.97 62.61	104.34
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,806.32 73.99	123.31
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,617.80 85.37	142.28
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,239.52 113.83	189.72
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,276.72 91.06	151.77
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,498.21 96.75	161.26
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,063.78 102.44	170.74
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,597.92 116.67	194.46
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,055.95 136.60	227.66
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,276.72 91.06	151.77
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,498.21 96.75	161.26
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,063.78 102.44	170.74
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,597.92 116.67	194.46
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,055.95 136.60	227.66
26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,725.55 56.92	94.85
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,673.04 59.76	99.60
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,161.10 62.61	104.34
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,434.61 73.99	123.31
26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,725.55 56.92	94.85
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,673.04 59.76	99.60
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,161.10 62.61	104.34



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,434.61 73.99	123.31
26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,634.43 59.76	99.60
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,935.74 65.45	109.08
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,543.09 73.99	123.31
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22,084.28 85.37	142.28
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37,092.89 113.83	189.72
26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,634.43 59.76	99.60
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,935.74 65.45	109.08
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,543.09 73.99	123.31
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22,084.28 85.37	142.28
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37,092.89 113.83	189.72
26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,023.23 91.06	151.77
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,320.98 105.29	175.49
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8,455.32 116.67	194.46
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,825.90 142.28	237.15
26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,023.23 91.06	151.77
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,320.98 105.29	175.49
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8,455.32 116.67	194.46
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,825.90 142.28	237.15
26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,436.44 73.99	123.31
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17,442.12 91.06	151.77
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19,262.06 105.29	175.49
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29,151.80 116.67	194.46
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39,752.74 142.28	237.15
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53,944.32 182.13	303.54
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16,436.44 73.99	123.31

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	17,442.12	151.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.06	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,262.06	175.49
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.29	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	29,151.80	194.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	116.67	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	39,752.74	237.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.28	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	53,944.32	303.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.13	
26 24 19 00-0268 Starter Accessories (26 24 19)		
26 24 19 00-0269 Starter Modifications (26 24 19 00-0268)		
26 24 19 00-0270 EA Control Circuit Transformer 60 Hertz, Size 1, 2, 50 VA Standard.....	94.27	
26 24 19 00-0271 EA Control Circuit Transformer 60 Hertz, Size 3, 4, 150 VA Standard.....	286.84	
26 24 19 00-0272 EA Control Circuit Transformer 60 Hertz, Size 5, 6, 50 VA.....	410.03	
26 24 19 00-0273 EA Control Circuit Transformer 60 Hertz, All Sizes, Extra 50 VA.....	102.97	
26 24 19 00-0274 EA Control Circuit Transformer 60 Hertz, All Sizes, Extra 100 VA.....	145.26	
26 24 19 00-0275 EA Control Circuit Transformer 60 Hertz, All Sizes, Extra 150 VA.....	244.55	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter.....	60.68	
26 24 19 00-0277 EA N.O. Overload Relay Alarm.....	51.48	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary.....	34.80	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton.....	43.02	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton.....	84.15	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select.....	43.02	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V.....	49.35	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer.....	59.47	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To.....	70.23	
26 24 19 00-0285 EA Blank Devices Panel.....	13.29	
26 24 19 00-0286 EA Oversize Or Special Color Starter.....	20.88	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer.....	202.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non Resettable.....	185.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable.....	246.75	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press.....	20.88	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw.....	29.74	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard.....	20.88	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In.....	29.74	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility.....	29.74	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type.....	43.02	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay.....	106.93	
26 24 19 00-0297 EA Heater Module.....	39.88	
26 24 19 00-0298 EA LAM - Long Acceleration Module.....	247.76	
26 24 19 00-0299 EA JAM - Jam Protection Module.....	284.02	
26 24 19 00-0300 EA PUM - Phase Unbalance Module.....	539.03	
26 24 19 00-0301 EA ULM - Underload Module.....	258.64	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer.....	56.80	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit.....	106.36	
26 24 19 00-0304 EA Type SIS Control Wire.....	44.72	
26 24 19 00-0305 EA Ring Or Spade Terminals Control.....	56.80	
26 24 19 00-0306 EA Ring Terminals Power.....	56.80	
26 24 19 00-0307 EA 14 Gauge Control Wire.....	44.72	
26 24 19 00-0308 EA Wiremakers.....	56.80	
26 24 19 00-0309 EA Wiring Diagram On Door.....	33.84	
26 24 19 00-0310 EA Special Color Or Type Control Wire.....	41.09	
26 24 19 00-0311 EA Current Transformer 12.5 VA.....	322.69	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	1,030.92	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	1,160.24	
26 24 19 00-0314 Control Relays And Special Components (26 24 19 00-0268)		
26 24 19 00-0315 EA Control Relays, 600 Volt, 2 Pole.....	247.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 24 19 00-0316 EA Control Relays, 600 Volt, 4 Pole.....	299.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 24 19 00-0317 EA Control Relays, 600 Volt, 6 Pole.....	360.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 24 19 00-0318 EA Control Relays, 600 Volt, 8 Pole.....	406.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 24 19 00-0319 EA Control Relays, Pneumatic Timer.....	308.84	
26 24 19 00-0320 EA Control Relays, Motor Driven Timer.....	804.80	
26 24 19 00-0321 EA Control Relays, 7 Day Time Switch.....	1,012.95	
26 24 19 00-0322 EA Control Relays, 24 Hour Time Switch.....	284.05	
26 24 19 00-0323 EA Control Relays, Phase Voltage.....	483.18	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0324 EA Control Relays, Two Circuit Alternator.....	676.30	
26 24 19 00-0325 EA Control Relays, Manual 120 Volt	66.13	
26 24 19 00-0326 EA Control Relays, Over-Current Relay	2,305.98	
26 24 19 00-0327 EA Control Relays, UV-Relay	1,953.08	
26 24 19 00-0328 EA Control Relays, Over-Current Relay	1,953.08	
26 24 19 00-0329 EA Control Relays, Teleductor	498.21	
26 24 19 00-0330 EA Control Relays, Current Transducer	1,339.82	
26 24 19 00-0331 EA Control Relays, Watt Transducer.....	2,679.65	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x.....	90.92	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway.....	136.01	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway.....	153.29	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	170.58	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	153.29	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	170.58	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	179.60	
26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0340 EA Circuit Breaker, Shunt Trip.....	300.65	
26 24 19 00-0341 EA Circuit Breaker, Auxiliary Switch.....	103.85	
26 24 19 00-0342 EA Circuit Breaker, Key Interlock	373.51	
26 24 19 00-0343 EA Circuit Breaker, GFR Ground Fault.....	1,721.85	
26 24 19 00-0344 EA Circuit Breaker, Seltronic Breaker.....	997.43	
26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100	975.56	61.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150	1,683.16	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100	1,606.12	61.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150	2,312.40	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150	2,954.91	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250	1,862.24	123.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.00	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400	2,983.05	132.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.70	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600	3,932.24	170.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.40	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800	4,659.71	260.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.56	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200	6,613.02	393.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.38	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000	14,302.97	521.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	312.76	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500	21,301.31	654.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	392.34	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000	35,350.43	758.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	455.71	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	1,165.39	61.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150	1,867.68	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	1,165.39	61.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50	1,867.68	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	1,957.91	61.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.99	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	2,686.75	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	3,321.30	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100	1,776.09	94.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400	4,511.03	260.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.56	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	4,511.03	260.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.56	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	6,038.21	284.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.67	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	7,526.90	332.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.11	
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	8,668.00	393.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.38	
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA Incoming Line And Feeder Fusible Switches, 30 Or 60 Amps	1,042.98	94.85
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	1,573.55	94.85

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0375 EA Incoming Line And Feeder Fusible Switches, 100 Amps	1,694.75	118.57
26 24 19 00-0376 EA Incoming Line And Feeder Fusible Switches, 200 Amps	2,725.91	142.28
26 24 19 00-0377 EA Incoming Line And Feeder Fusible Switches, 400 Amps	5,313.46	180.23
26 24 19 00-0378 EA Incoming Line And Feeder Fusible Switches, 600 Amps	7,443.67	237.15
26 24 19 00-0379 EA Incoming Line And Feeder Fusible Switches, 800 Amps	17,949.72	317.77
26 24 19 00-0380 EA Incoming Line And Feeder Fusible Switches, 1,200 Amps	20,301.01	441.09
26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	905.36	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	934.56	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	965.09	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,107.14	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	1,200.06	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	1,296.81	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	1,632.83	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	1,839.92	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	4,277.21	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	2,270.03	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	3,144.85	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	4,901.14	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	4,538.73	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	6,289.71	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	6,200.05	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	8,588.22	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	203.73	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	445.42	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	183.48	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	445.42	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	247.38	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	262.57	
26 24 19 00-0405 EA Add For Additional Circuits	66.47	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	918.67	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	962.33	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	848.44	
26 24 19 00-0409 EA Add For Demand Attachment	435.09	
26 24 19 00-0410 EA Metering Equipment, Current Transformer, 800 Amp	253.71	
26 24 19 00-0411 EA Metering Equipment, Current Transformer, 1,000 Amp	437.82	
26 24 19 00-0412 EA Metering Equipment, Current Transformer, 2,000 Amp	509.95	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	425.17	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	457.44	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	349.88	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA Current Limiting Reactors, 600 Amps	16,385.37	
26 24 19 00-0418 EA Current Limiting Reactors, 800 Amps	23,861.86	
26 24 19 00-0419 EA Current Limiting Reactors, 1,000 Amps	31,355.62	
26 24 19 00-0420 EA Current Limiting Reactors, 1,200 Amps	47,729.04	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	399.00	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	399.00	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	551.61	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,009.45	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	551.61	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	704.22	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	704.22	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,007.61	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	704.22	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,007.61	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	856.84	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	2,778.29	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	856.84	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,007.61	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	2,778.29	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	2,778.29	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	756.70	
26 24 19 00-0439 EA Throat And Transition To Substation	1,460.81	
26 24 19 00-0440 EA Service Entrance Label	316.36	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition	661.27	
26 24 19 00-0442 EA 600 Ampere Sub Feed Lugs On Main Bus	288.85	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width	208.90	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	208.90	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	646.24	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	728.90	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	62.37	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	168.32	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	35.32	
26 24 19 00-0451 EA Standard Structure 150 Watt Space	151.79	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control	351.70	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	151.79	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	227.21	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted.....	3,241.43	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back	3,746.62	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	3,750.25	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amps	569.12	284.57
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amps	853.68	426.86
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amps	948.58	474.28
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amps	1,138.39	569.15
26 24 19 00-0463 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 600 Amps	94.85	47.43
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amps	569.12	284.57
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amps	853.68	426.86
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amps	948.58	474.28
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amps	1,138.39	569.15
26 24 19 00-0468 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 800 Amps	94.85	47.43
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amps	664.01	332.00
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amps	853.68	426.86
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amps	1,138.39	569.15
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amps	1,327.84	663.90
26 24 19 00-0473 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,200 Amps	142.28	71.15
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amps.....	758.86	379.43
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amps.....	1,043.52	521.71
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amps.....	1,327.84	663.90
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amps.....	1,517.45	758.77
26 24 19 00-0478 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,600 Amps.....	189.72	94.85
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amps.....	758.86	379.43
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amps.....	1,138.39	569.15
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amps.....	1,422.71	711.33
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amps.....	1,612.68	806.39
26 24 19 00-0483 EA Install Vertical Section, 230/480 Volt, Bolt To Floor, 2,000 Amps.....	189.72	94.85
26 24 19 00-0484 Motor Control Centers (26 24 19)		
26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	9,772.21	189.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	9,772.21	189.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	9,772.21	189.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	9,819.66	213.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.06	
26 24 19 00-0490 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	10,435.79	237.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.28	
26 24 19 00-0491 EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	10,483.21	260.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.51	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	10,530.63	284.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.74	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	10,625.52	332.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.20	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	10,720.37	379.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.66	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	17,904.30	426.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	256.10	
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	19,228.59	474.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.57	
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	14,434.70	189.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.83	
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	15,042.25	203.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	122.37	
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	17,082.82	222.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.75	
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	19,007.06	237.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.28	
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	20,691.54	275.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.06	
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	22,665.46	294.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	176.44	
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	24,638.21	313.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.81	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26,982.76 204.90	341.49
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31,386.78 227.66	379.43
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33,999.89 241.90	403.15
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51,824.68 284.57	474.28
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55,228.64 313.06	521.71
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58,195.92 341.52	569.15
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63,367.00 370.01	616.67
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,626.98 113.83	189.72
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,674.43 128.06	213.43
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,721.83 142.28	237.15
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,769.25 156.51	260.86
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,818.97 170.74	284.57
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,866.45 184.98	308.28
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13,913.86 199.20	332.00
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14,103.53 256.10	426.86
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,853.17 284.57	474.28
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,948.11 313.06	521.71
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25,265.47 341.52	569.15
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,371.55 56.92	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,532.40 56.92	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8,433.53 56.92	
26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10,691.49 170.74	284.57
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10,738.97 184.98	308.28
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10,786.38 199.20	332.00
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10,833.84 213.44	355.71
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,444.22 227.66	379.43
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,491.70 241.90	403.15
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,539.04 256.10	426.86
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,586.55 270.36	450.57
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,633.94 284.57	474.28
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19,576.55 370.01	616.67
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19,671.04 398.35	663.90
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20,989.56 426.81	711.33
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,084.30 455.24	758.77
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14,787.54 170.74	284.57
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14,995.88 184.98	308.28
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17,467.60 199.20	332.00
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19,405.11 213.44	355.71
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21,061.04 227.66	379.43
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23,044.53 241.90	403.15



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0545	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP.....	24,907.23	426.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	256.10	
26 24 19 00-0546	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP.....	27,361.82	450.57
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	270.36	
26 24 19 00-0547	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP.....	31,660.37	474.28
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.57	
26 24 19 00-0548	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP.....	34,587.12	498.00
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	298.81	
26 24 19 00-0549	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP.....	37,561.31	545.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	327.27	
26 24 19 00-0550	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP.....	40,008.97	569.15
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	341.52	
26 24 19 00-0551	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP.....	42,318.60	592.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	355.71	
26 24 19 00-0552	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP.....	45,543.13	616.67
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	370.01	
26 24 19 00-0553	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP.....	72,035.08	758.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	455.24	
26 24 19 00-0554	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP.....	80,081.14	806.39
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	483.80	
26 24 19 00-0555	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP.....	96,175.13	853.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	512.21	
26 24 19 00-0556	EA		4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP.....	101,695.90	853.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	512.21	
26 24 19 00-0557	EA		4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP.....	14,638.85	332.00
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.20	
26 24 19 00-0558	EA		4.8 KV CL 14-202, Synchronous Motor Control, 700 HP.....	14,686.31	355.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.44	
26 24 19 00-0559	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP.....	14,733.70	379.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.66	
26 24 19 00-0560	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP.....	14,781.18	403.15
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	241.90	
26 24 19 00-0561	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP.....	16,039.53	426.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	256.10	
26 24 19 00-0562	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP.....	16,087.04	450.57
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	270.36	
26 24 19 00-0563	EA		4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP.....	16,134.43	474.28
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.57	
26 24 19 00-0564	EA		4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP.....	16,181.87	498.00
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	298.81	
26 24 19 00-0565	EA		4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP.....	16,229.37	521.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	313.06	
26 24 19 00-0566	EA		4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP.....	16,513.69	663.90
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	398.35	
26 24 19 00-0567	EA		4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP.....	26,424.16	711.33
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	426.81	
26 24 19 00-0568	EA		4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP.....	27,736.80	758.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	455.24	
26 24 19 00-0569	EA		4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP.....	27,736.80	758.77
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	455.24	
26 24 19 00-0570	EA		Add For Reversing Starters, 100 To 1,250 HP.....	8,482.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0571	EA		Add For Reversing Starters, 1,500 To 2,500 HP.....	8,739.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0572	EA		Add For Reversing Starters, 3,000 To 4,500 HP.....	13,382.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92	
26 24 19 00-0573			2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
26 24 19 00-0574	EA		2.4/4.8 KV Load Break Disconnect Switch 600 Amp.....	11,043.93	189.72
26 24 19 00-0575	EA		2.4/4.8 KV Load Break Disconnect Switch 1,200 Amp.....	13,276.42	284.57
26 24 19 00-0576	EA		2.4/4.8 KV NEMA 3 Weather Resistant.....	4,341.19	
26 24 19 00-0577	EA		2.4/4.8 KV Space Heaters.....	173.48	14.23
26 24 19 00-0578	EA		2.4/4.8 KV Potential Transformer Fused.....	1,257.68	
26 24 19 00-0579	EA		2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	674.81	
26 24 19 00-0580	EA		2.4/4.8 KV Control Transformer 4 KVA Max.....	2,009.71	
26 24 19 00-0581	EA		2.4/4.8 KV Pushbuttons Each.....	128.71	
26 24 19 00-0582	EA		2.4/4.8 KV Selector Switch Each.....	426.58	
26 24 19 00-0583	EA		2.4/4.8 KV Indicating Light.....	128.71	
26 24 19 00-0584	EA		2.4/4.8 KV Push To Test Light.....	389.81	
26 24 19 00-0585	EA		2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,037.03	
26 24 19 00-0586	EA		2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,037.03	
26 24 19 00-0587	EA		2.4/4.8 KV Power Factor Meter.....	3,101.90	
26 24 19 00-0588	EA		2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,138.42	
26 24 19 00-0589	EA		2.4/4.8 KV Operation Counter.....	418.27	14.23
26 24 19 00-0590	EA		2.4/4.8 KV Phase Failure Protection.....	3,003.68	47.43
26 24 19 00-0591	EA		2.4/4.8 KV Ground Protection.....	5,732.71	23.72
26 24 19 00-0592	EA		2.4/4.8 KV Synchronous Motor DC Protection.....	1,614.62	23.72
26 24 19 00-0593	EA		2.4/4.8 KV Lightning Arresters.....	2,678.89	14.23
26 24 19 00-0594	EA		2.4/4.8 KV Portable Lifting Mechanism.....	3,863.54	
26 24 19 00-0595	EA		2.4/4.8 KV Auxiliary Timing Relay.....	327.80	47.43
26 24 19 00-0596	EA		2.4/4.8 KV Auxiliary Control Relay.....	248.90	47.43

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484) Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amp, 14,000 Amp IC, 3-Pole, With Structure Included.....	919.41	284.30
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amp, 22,000 Amp IC, 3-Pole, With Structure Included.....	1,601.04	503.23
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	1,940.45	644.34
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	3,096.60	1,037.59
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	3,615.57	1,141.35
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	4,548.69	1,265.86
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 45,000 Amp IC, 3-Pole, With Structure Included.....	5,300.48	1,483.75
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 100,000 Amp IC, 3-Pole, With Structure Included.....	8,654.82	1,728.63
26 24 19 00-0606 Main Lugs Only (26 24 19 00-0484)		
26 24 19 00-0607 EA 600 Amp Incoming Section, Main Lugs.....	803.78	363.16
26 24 19 00-0608 EA 800 Amp Incoming Section, Main Lugs.....	877.24	363.16
26 24 19 00-0609 EA 1,200 Amp Incoming Section, Main Lugs.....	1,249.76	570.67
26 24 19 00-0610 EA 2,000 Amp Incoming Section, Main Lugs.....	2,845.12	1,037.59
26 24 19 00-0611 EA 3,000 Amp Incoming Section, Main Lugs.....	4,294.32	1,504.51
26 24 19 00-0612 EA 4,000 Amp Incoming Section, Main Lugs.....	6,070.66	2,075.18
26 24 19 00-0613 Incoming Main Circuit Breaker Structure (26 24 19 00-0484) Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614 EA 225 Amp, Main Circuit Breaker Section	4,288.49	502.09
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615 EA 400 Amp, Main Circuit Breaker Section	8,842.54	644.96
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616 EA 600 Amp, Main Circuit Breaker Section	9,388.86	1,004.60
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617 EA 800 Amp, Main Circuit Breaker Section	13,078.11	1,004.60
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618 EA 1,200 Amp, Main Circuit Breaker Section	18,732.32	1,136.68
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619 Incoming Fusible Main Disconnect Section (26 24 19 00-0484) Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0620 EA 200 Amp, Fusible Main Disconnect Section	3,765.09	502.71
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0621 EA 400 Amp, Fusible Main Disconnect Section	5,168.29	645.27
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0622 EA 600 Amp, Fusible Main Disconnect Section	9,938.68	1,005.43
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0623 EA 800 Amp, Fusible Main Disconnect Section	11,452.08	1,005.43
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For NEMA 1 With Gaskets, Add	97.00	
For NEMA 12, Add	245.00	
For 20" Cabinet Depth, Add	108.00	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Switchboards And Panelboards	26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0624 EA 1,200 Amp, Fusible Main Disconnect Section..... For 800 Amp Tin Plated Copper Bus, Add For 1,200 Amp Tin Plated Copper Bus, Add For NEMA 1 With Gaskets, Add For NEMA 12, Add For 20" Cabinet Depth, Add	15,956.34 182.00 334.00 97.00 245.00 108.00	1,137.71
26 24 19 00-0625 Circuit Breaker Combination Starters (26 24 19 00-0484)		
26 24 19 00-0626 Class I, Type A (26 24 19 00-0625)		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	743.29 120.09	210.63
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	857.44 133.02	210.63
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,229.39 178.90	298.82
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,942.05 235.82	393.24
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,341.39 294.77	491.82
26 24 19 00-0632 Class I, Type B (26 24 19 00-0625)		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	692.79 103.76	183.66
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	803.52 116.85	183.66
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,165.17 159.63	265.62
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,876.54 216.17	360.04
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,288.56 278.92	459.65
26 24 19 00-0638 Class I, Type C (26 24 19 00-0625)		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	713.33 93.98	170.16
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	833.88 110.38	170.16
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,226.52 152.59	254.21
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,943.80 210.89	351.74
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,346.87 270.21	451.36
26 24 19 00-0644 Class II, Type B (26 24 19 00-0625)		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	769.35 142.53	252.13
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,020.47 159.14	252.13
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,418.57 201.08	336.18
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,238.42 259.40	430.60
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,866.56 316.34	526.06
26 24 19 00-0650 Class II, Type C (26 24 19 00-0625)		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	913.42 136.52	238.65
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,040.10 149.08	238.65
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,484.51 195.04	325.80
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,298.06 251.84	420.22
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,939.95 312.53	518.80
26 24 19 00-0656 Fused Disconnect Combination Starter (26 24 19 00-0484)		
26 24 19 00-0657 Class I, Type A (26 24 19 00-0656)		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	686.74 116.85	194.03
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,015.40 159.14	265.62

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0660	EA	Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,560.30 207.52	345.52
26 24 19 00-0661	EA	Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,143.39 291.46	484.56
26 24 19 00-0662	EA	Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,589.84 370.57	617.36
26 24 19 00-0663 Class I, Type B (26 24 19 00-0656)				
26 24 19 00-0664	EA	Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	681.40 103.76	173.28
26 24 19 00-0665	EA	Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	920.97 142.53	237.60
26 24 19 00-0666	EA	Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,338.90 190.73	317.51
26 24 19 00-0667	EA	Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,188.89 275.96	458.62
26 24 19 00-0668	EA	Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,620.78 350.54	583.12
26 24 19 00-0669 Class I, Type C (26 24 19 00-0656)				
26 24 19 00-0670	EA	Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	706.21 97.15	161.86
26 24 19 00-0671	EA	Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	952.16 133.02	219.97
26 24 19 00-0672	EA	Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,429.33 185.28	306.09
26 24 19 00-0673	EA	Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,278.34 270.21	451.36
26 24 19 00-0674	EA	Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,442.06 345.86	576.90
26 24 19 00-0675 Class II, Type B (26 24 19 00-0656)				
26 24 19 00-0676	EA	Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	877.01 145.73	242.79
26 24 19 00-0677	EA	Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,124.86 181.40	302.97
26 24 19 00-0678	EA	Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,596.42 233.69	390.14
26 24 19 00-0679	EA	Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,523.57 316.34	526.06
26 24 19 00-0680	EA	Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,151.13 393.03	656.79
26 24 19 00-0681 Class II, Type C (26 24 19 00-0656)				
26 24 19 00-0682	EA	Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	893.16 136.52	228.27
26 24 19 00-0683	EA	Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,155.69 171.79	286.37
26 24 19 00-0684	EA	Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,665.73 223.62	372.50
26 24 19 00-0685	EA	Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,601.37 308.81	513.61
26 24 19 00-0686	EA	Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,221.21 381.47	636.05
26 24 19 00-0687 Space Complete With Bus And Hardware (26 24 19 00-0484)				
26 24 19 00-0688 Circuit Breaker Type (26 24 19 00-0687)				
26 24 19 00-0689	EA	Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	219.09	70.56
26 24 19 00-0690	EA	Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	219.09	70.56
26 24 19 00-0691	EA	Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	324.41	102.72
26 24 19 00-0692	EA	Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	393.91	134.89
26 24 19 00-0693	EA	Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	646.56	205.45
26 24 19 00-0694 Fused Disconnect Type (26 24 19 00-0687)				
26 24 19 00-0695	EA	Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	219.09	70.56
26 24 19 00-0696	EA	Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	296.86	102.72
26 24 19 00-0697	EA	Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	407.39	134.89
26 24 19 00-0698	EA	Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	684.18	205.45
26 24 19 00-0699	EA	Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	962.16	298.82
26 24 19 00-0700 Blank Space For Future Expansion (26 24 19 00-0687)				
Note: Factory modified no labor costs.				
26 24 19 00-0701	EA	Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	78.50	
26 24 19 00-0702	EA	Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	78.50	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0703	EA	Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs	119.02	
26 24 19 00-0704	EA	Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs	119.02	
26 24 19 00-0705	EA	Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs	236.77	
26 24 19 00-0706 Structure Combination Of Starters To 72" High (26 24 19 00-0687)				
26 24 19 00-0707	EA	Structure Combination Of Starters To 72" High	2,368.33	546.09
26 24 19 00-0708 Motor Control Center Basic Distribution Section (26 24 19 00-0484)				
26 24 19 00-0709	EA	20" Wide Basic Section With Vertical Wireway	4,308.24	1,422.12
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amp Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710	EA	25"-35" Wide Basic Section (No Vertical Wireway)	4,308.24	1,422.12
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amp Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711	EA	25" Wide Basic Section With 9" Wide Vertical Wireway	4,653.21	1,422.12
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amp Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712	EA	Corner Section	4,653.21	1,422.12
		For 20" Cabinet Depth, Add	108.00	
		For 800 Amp Tin Plated Copper Bus, Add	182.00	
		For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
		For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
		For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
		For NEMA 1 With Gasket, Add	97.00	
		For NEMA 12, Add	245.00	
		For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0484)				
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.				
26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0713)				
26 24 19 00-0715	EA	Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	999.68	199.74
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	119.83	
26 24 19 00-0716	EA	Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,112.15	221.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.91	
26 24 19 00-0717	EA	Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	1,867.92	297.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	178.69	
26 24 19 00-0718	EA	Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	2,681.91	392.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.60	
26 24 19 00-0719	EA	Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	5,831.47	490.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	294.44	
26 24 19 00-0720	EA	Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	13,180.41	490.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	294.44	
26 24 19 00-0721	EA	Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	989.12	172.76
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.65	
26 24 19 00-0722	EA	Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,115.35	194.55
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	116.72	
26 24 19 00-0723	EA	Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	1,882.66	265.62
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.37	
26 24 19 00-0724	EA	Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	2,660.68	360.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	216.05	
26 24 19 00-0725	EA	Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	5,823.72	464.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.92	
26 24 19 00-0726	EA	Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	13,251.74	464.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.92	
26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0713)				
26 24 19 00-0728	EA	Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	1,552.28	249.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	149.94	
26 24 19 00-0729	EA	Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	1,883.42	276.51
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.93	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,045.17 222.98	371.66
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,135.33 294.77	491.30
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,083.84 368.81	614.67
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,550.03 129.48	215.82
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,896.13 146.00	243.32
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,068.15 199.54	332.54
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,119.40 270.21	450.31
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,083.62 348.97	581.57
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,684.17 149.94	249.96
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,341.51 165.93	276.51
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,313.95 222.98	371.66
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,864.24 294.77	491.30
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,497.42 368.81	614.67
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,681.92 129.48	215.82
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,354.23 146.00	243.32
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,336.92 199.54	332.54
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,848.30 270.21	450.31
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11,497.20 348.97	581.57
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0484) Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect	830.00	194.76
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect	1,089.48	264.69
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect	1,749.39	344.90
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect	2,883.05	485.80
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect	5,542.74	617.57
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect	13,389.29	617.57
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect	828.71	172.66
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect	1,091.46	237.09
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect	1,774.43	317.92
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect	2,875.33	459.96
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect	5,519.93	584.26
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect	13,445.61	584.26
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect	1,365.97	243.84
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect	1,897.09	330.89
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect	2,880.58	430.91
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect	5,833.08	608.96
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect	9,296.43	712.61
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect	1,375.35	215.82
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect	1,906.73	296.13
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect	2,915.60	397.81
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect	5,828.98	573.90
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect	9,281.14	672.05
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect	1,564.69	243.84
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect	2,362.23	330.89
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect	4,162.54	430.91
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect	6,100.38	608.96
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect	11,219.37	712.61
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect	1,574.65	215.82
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect	2,371.86	296.13
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect	4,197.57	397.81



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards And Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,096.27	573.90
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	11,204.09	672.05
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484)		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amp Horizontal Tin Plated Copper Bus Kit	159.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 24 19 00-0787 EA 800 Amp Horizontal Tin Plated Copper Bus Kit	193.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 24 19 00-0788 EA 1,200 Amp Horizontal Tin Plated Copper Bus Kit	232.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 24 19 00-0789 EA 1,600 Amp Horizontal Tin Plated Copper Bus Kit	299.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 24 19 00-0790 EA 2,000 Amp Horizontal Tin Plated Copper Bus Kit	497.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit	93.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amp Rating, 15 To 100 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	730.53	149.93
26 24 19 00-0795 EA 150 Amp Rating, 125 To 150 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,240.19	166.02
26 24 19 00-0796 EA 225 Amp Rating, 70 To 225 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,521.37	223.60
26 24 19 00-0797 EA 400 Amp Rating, 125 To 400 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,494.13	294.68
26 24 19 00-0798 EA 600 Amp Rating, 300 To 600 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,253.29	368.35
26 24 19 00-0799 EA 800 Amp Rating, 400 To 800 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,831.37	368.35
26 24 19 00-0800 EA 1,200 Amp Rating, 600 To 1,200 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....	9,835.34	461.20
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amp Switch Rating, Fusible Disconnect Switch With 30 Amp Fuse Clips.....	581.72	145.78
26 24 19 00-0803 EA 60 Amp Switch Rating, Fusible Disconnect Switch With 60 Amp Fuse Clips.....	705.16	198.70
26 24 19 00-0804 EA 100 Amp Switch Rating, Fusible Disconnect Switch With 100 Amp Fuse Clips.....	953.33	254.21
26 24 19 00-0805 EA 200 Amp Switch Rating, Fusible Disconnect Switch With 200 Amp Fuse Clips.....	1,698.27	364.19
26 24 19 00-0806 EA 400 Amp Switch Rating, Fusible Disconnect Switch With 400 Amp Fuse Clips.....	2,884.54	463.18
26 24 19 00-0807 EA 600 Amp Switch Rating, Fusible Disconnect Switch With 600 Amp Fuse Clips.....	6,190.57	463.18
26 24 19 00-0808 EA 800 Amp Switch Rating, Fusible Disconnect Switch With 800 Amp Fuse Clips.....	7,657.54	578.98
26 24 19 00-0809 EA 1,200 Amp Switch Rating, Fusible Disconnect Switch With 1,200 Amp Fuse Clips.....	11,118.33	578.98
26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed	41.88	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed	41.88	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed	80.66	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed	80.66	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed	112.05	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay	40.33	11.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted	85.12	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.97	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted	97.47	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.21	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted	77.37	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.72	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light	228.60	70.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.52	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter	234.05	26.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.13	
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484)		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact.....	56.91	13.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.72	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact.....	74.41	13.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.72	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....	79.54	13.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.11	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact.....	70.64	13.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.49	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....	72.35	13.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.90	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	524.27	
26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements	18.61	
26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)		
26 24 19 00-0834 EA Industrial Control Relay, 10 Amp Class A600 With 2 Contacts.....	120.89	25.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.59	
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay.....	115.29	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.59	
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amp, With Base.....	73.49	23.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.59	
26 24 19 00-0837 Motor Control Center Accessories (26 24 19 00-0484)		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker (26 24 19 00-0837)		
Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	3,271.48	331.85
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	3,401.43	345.11
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	3,717.34	371.66
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	4,623.90	398.21
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,138.34	424.76
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,509.11	477.85
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,797.61	530.95
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,813.73	438.04
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,317.72	477.85
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,214.60	530.95
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,668.71	584.05
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,204.27	637.14
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,520.52	690.24
26 24 19 00-0852 Bolt-On Lighting Panel (26 24 19 00-0837)		
Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	1,648.66	539.97
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,635.85	939.85
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,517.94	1,271.56
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	1,737.20	584.26
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,595.86	919.82
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,676.88	1,351.05
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	2,592.50	626.29
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	3,566.24	1,005.43
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,519.22	1,351.05
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	2,691.01	675.47
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	3,566.24	1,005.43
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,606.39	1,394.62
26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837)		
Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 A / 1 Pole - 30 A / 1 Pole Bolt-On Branch Circuit Breaker.....	17.27	
26 24 19 00-0867 EA 15 A / 1 Pole - 30 A / 1 Pole (GFI) Bolt-On Branch Circuit Breaker	161.57	
26 24 19 00-0868 EA 15 A / 2 Pole - 50 A / 2 Pole Bolt-On Branch Circuit Breaker.....	33.76	
26 24 19 00-0869 EA 60 A / 2 Pole - 100 A / 2 Pole Bolt-On Branch Circuit Breaker.....	77.73	
26 24 19 00-0870 EA 15 A / 3 Pole - 50 A / 3 Pole Bolt-On Branch Circuit Breaker.....	91.08	
26 24 19 00-0871 EA 60 A / 3 Pole - 100 A / 3 Pole Bolt-On Branch Circuit Breaker.....	138.18	
26 24 19 00-0872 Blank Unit Door (BUD) (26 24 19 00-0837)		
Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	43.09	
26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	51.70	
26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	77.55	
26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	103.41	
26 24 19 00-0877 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	155.11	
26 24 19 00-0878 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	180.96	
26 24 19 00-0879 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	206.81	
26 25 Enclosed Bus Assemblies (26 20)		
26 25 00 00-0001 Bus Ducts (26 25)		



Electrical		26
Low-Voltage Electrical Distribution		26 20
Enclosed Bus Assemblies		26 25

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0002 Plug-In Bus Duct (26 25 00 00-0001) Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 00 00-0003 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 00 00-0002)		
26 25 00 00-0004 LF 225 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	246.88	31.13
For Up To 25, Add	61.72	
For >25 To 50, Add	37.03	
For >50 To 100, Add	18.52	
26 25 00 00-0005 LF 400 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	348.31	31.13
For Up To 25, Add	87.08	
For >25 To 50, Add	52.25	
For >50 To 100, Add	26.12	
26 25 00 00-0006 LF 600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	440.78	41.50
For Up To 25, Add	110.20	
For >25 To 50, Add	66.12	
For >50 To 100, Add	33.06	
26 25 00 00-0007 LF 800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	606.92	41.50
For Up To 25, Add	151.73	
For >25 To 50, Add	91.04	
For >50 To 100, Add	45.52	
26 25 00 00-0008 LF 1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	640.38	51.88
For Up To 25, Add	160.10	
For >25 To 50, Add	96.06	
For >50 To 100, Add	48.03	
26 25 00 00-0009 LF 1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	890.04	51.88
For Up To 25, Add	222.51	
For >25 To 50, Add	133.51	
For >50 To 100, Add	66.75	
26 25 00 00-0010 LF 1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,040.57	54.48
For Up To 25, Add	260.14	
For >25 To 50, Add	156.09	
For >50 To 100, Add	78.04	
26 25 00 00-0011 LF 2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,265.36	56.03
For Up To 25, Add	316.34	
For >25 To 50, Add	189.80	
For >50 To 100, Add	94.90	
26 25 00 00-0012 LF 2,500 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,560.05	59.15
For Up To 25, Add	390.01	
For >25 To 50, Add	234.01	
For >50 To 100, Add	117.00	
26 25 00 00-0013 LF 3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	1,801.44	69.00
For Up To 25, Add	450.36	
For >25 To 50, Add	270.22	
For >50 To 100, Add	135.11	
26 25 00 00-0014 LF 4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	2,084.00	75.22
For Up To 25, Add	521.00	
For >25 To 50, Add	312.60	
For >50 To 100, Add	156.30	
26 25 00 00-0015 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 00 00-0002)		
26 25 00 00-0016 LF 225 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	400.92	31.13
For Up To 25, Add	100.23	
For >25 To 50, Add	60.14	
For >50 To 100, Add	30.07	
26 25 00 00-0017 LF 400 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	577.50	31.13
For Up To 25, Add	144.38	
For >25 To 50, Add	86.63	
For >50 To 100, Add	43.31	
26 25 00 00-0018 LF 600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	652.97	41.50
For Up To 25, Add	163.24	
For >25 To 50, Add	97.95	
For >50 To 100, Add	48.97	
26 25 00 00-0019 LF 800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	829.27	41.50
For Up To 25, Add	207.32	
For >25 To 50, Add	124.39	
For >50 To 100, Add	62.20	
26 25 00 00-0020 LF 1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,010.89	51.88
For Up To 25, Add	252.72	
For >25 To 50, Add	151.63	
For >50 To 100, Add	75.82	
26 25 00 00-0021 LF 1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,308.17	51.88
For Up To 25, Add	327.04	
For >25 To 50, Add	196.23	
For >50 To 100, Add	98.11	
26 25 00 00-0022 LF 1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,690.13	53.75
For Up To 25, Add	422.53	
For >25 To 50, Add	253.52	
For >50 To 100, Add	126.76	
26 25 00 00-0023 LF 2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,034.19	56.03
For Up To 25, Add	508.55	
For >25 To 50, Add	305.13	
For >50 To 100, Add	152.56	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0024 LF 2,500 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,521.17	58.62
For Up To 25, Add	630.29	
For >25 To 50, Add	378.18	
For >50 To 100, Add	189.09	
26 25 00 00-0025 LF 3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,910.46	69.00
For Up To 25, Add	727.62	
For >25 To 50, Add	436.57	
For >50 To 100, Add	218.28	
26 25 00 00-0026 LF 4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,373.03	75.22
For Up To 25, Add	843.26	
For >25 To 50, Add	505.95	
For >50 To 100, Add	252.98	
26 25 00 00-0027 Cable Tap Boxes (26 25 00 00-0002)		
26 25 00 00-0028 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 00 00-0027)		
26 25 00 00-0029 EA 225 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,014.15	145.26
26 25 00 00-0030 EA 400 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,082.91	145.26
26 25 00 00-0031 EA 600 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,252.59	197.14
26 25 00 00-0032 EA 800 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,398.05	197.14
26 25 00 00-0033 EA 1,000 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,572.46	259.39
26 25 00 00-0034 EA 1,350 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,818.64	259.39
26 25 00 00-0035 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 00 00-0027)		
26 25 00 00-0036 EA 225 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,082.91	285.34
26 25 00 00-0037 EA 400 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,264.49	285.34
26 25 00 00-0038 EA 600 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,420.80	389.10
26 25 00 00-0039 EA 800 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,720.38	389.10
26 25 00 00-0040 EA 1,000 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,862.44	518.80
26 25 00 00-0041 EA 1,350 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,255.96	518.80
26 25 00 00-0042 Bus Duct Plug-In Circuit Breaker (26 25 00 00-0002)		
26 25 00 00-0043 240 Volt, 3-Phase (26 25 00 00-0042)		
26 25 00 00-0044 EA 60 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker	909.98	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.76	
26 25 00 00-0045 EA 100 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker	1,805.38	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.86	
26 25 00 00-0046 600 Volt, 3-Phase (26 25 00 00-0042)		
26 25 00 00-0047 EA 60 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker	1,751.71	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.76	
26 25 00 00-0048 EA 100 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker	2,268.78	103.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.86	
26 25 00 00-0049 120/208 Volt, 3-Phase, 4-Wire (26 25 00 00-0042)		
26 25 00 00-0050 EA 60 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,047.82	124.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.85	
26 25 00 00-0051 EA 100 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,252.21	124.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.06	
26 25 00 00-0052 277/480 Volt, 3-Phase, 4-Wire (26 25 00 00-0042)		
26 25 00 00-0053 EA 60 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,198.18	124.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.85	
26 25 00 00-0054 EA 100 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	1,840.96	124.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.06	
26 25 00 00-0055 EA 225 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	2,697.85	430.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.62	
26 25 00 00-0056 EA 400 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	6,434.09	430.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	405.31	
26 25 00 00-0057 EA 600 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	7,202.27	1,245.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	563.91	
26 25 00 00-0058 EA 800 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker	9,047.38	1,245.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	997.68	
26 25 00 00-0059 Bus Duct Plug-In Fusible Switch (26 25 00 00-0002)		
26 25 00 00-0060 240 Volt, 3-Pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0061 EA 30 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	907.91	103.76
26 25 00 00-0062 EA 60 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	997.51	103.76
26 25 00 00-0063 EA 100 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,377.94	124.51
26 25 00 00-0064 EA 200 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	2,325.85	249.03
26 25 00 00-0065 EA 400 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	5,872.70	560.30
26 25 00 00-0066 EA 600 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	8,786.59	975.33



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Enclosed Bus Assemblies	26 25

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0067 600 Volt, 3-Pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0068 EA 30 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	943.49	114.13
26 25 00 00-0069 EA 60 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,030.86	114.13
26 25 00 00-0070 EA 100 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,389.00	114.13
26 25 00 00-0071 EA 200 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	2,382.54	238.65
26 25 00 00-0072 EA 400 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	5,844.98	539.54
26 25 00 00-0073 EA 600 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	8,983.10	1,037.59
26 25 00 00-0074 EA 800 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	14,724.67	1,348.87
26 25 00 00-0075 120/208 Volt, 4-pole, 3 Fuse (26 25 00 00-0059)		
26 25 00 00-0076 EA 30 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,050.62	134.89
26 25 00 00-0077 EA 60 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,128.60	134.89
26 25 00 00-0078 EA 100 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,525.90	134.89
26 25 00 00-0079 EA 200 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	2,586.65	280.15
26 25 00 00-0080 EA 400 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	6,445.69	622.55
26 25 00 00-0081 EA 600 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	9,382.59	954.59
26 25 00 00-0082 277/480 Volt, 4-pole, 3-Fuse (26 25 00 00-0059)		
26 25 00 00-0083 EA 30 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,085.19	134.89
26 25 00 00-0084 EA 60 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,163.18	114.44
26 25 00 00-0085 EA 100 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,627.67	155.64
26 25 00 00-0086 EA 200 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	2,695.49	280.15
26 25 00 00-0087 EA 400 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	6,445.69	622.55
26 25 00 00-0088 EA 600 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	9,382.59	954.59
26 25 00 00-0089 EA 800 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	14,847.44	1,265.86
26 25 00 00-0090 Feeder Bus Duct (26 25 00 00-0001)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 00 00-0091 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 00 00-0090)		
Note: Copper conductors.		
26 25 00 00-0092 LF 800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	726.94	43.58
For Up To 25, Add	181.74	
For >25 To 50, Add	109.04	
For >50 To 100, Add	54.52	
26 25 00 00-0093 LF 1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	736.97	43.58
For Up To 25, Add	184.24	
For >25 To 50, Add	110.55	
For >50 To 100, Add	55.27	
26 25 00 00-0094 LF 1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	964.08	43.58
For Up To 25, Add	241.02	
For >25 To 50, Add	144.61	
For >50 To 100, Add	72.31	
26 25 00 00-0095 LF 1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,157.59	43.58
For Up To 25, Add	289.40	
For >25 To 50, Add	173.64	
For >50 To 100, Add	86.82	
26 25 00 00-0096 LF 2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,414.72	43.58
For Up To 25, Add	353.68	
For >25 To 50, Add	212.21	
For >50 To 100, Add	106.10	
26 25 00 00-0097 LF 3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,930.62	103.76
For Up To 25, Add	482.66	
For >25 To 50, Add	289.59	
For >50 To 100, Add	144.80	
26 25 00 00-0098 LF 4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	2,668.05	103.76
For Up To 25, Add	667.01	
For >25 To 50, Add	400.21	
For >50 To 100, Add	200.10	
26 25 00 00-0099 LF 5,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	3,156.64	103.76
For Up To 25, Add	789.16	
For >25 To 50, Add	473.50	
For >50 To 100, Add	236.75	
26 25 00 00-0100 LF 6,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	3,887.83	103.76
For Up To 25, Add	971.96	
For >25 To 50, Add	583.17	
For >50 To 100, Add	291.59	
26 25 00 00-0101 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 00 00-0090)		
Note: Low impedance, copper conductors.		
26 25 00 00-0102 LF 800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	833.21	46.69
For Up To 25, Add	208.30	
For >25 To 50, Add	124.98	
For >50 To 100, Add	62.49	
26 25 00 00-0103 LF 1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	846.41	46.69
For Up To 25, Add	211.60	
For >25 To 50, Add	126.96	
For >50 To 100, Add	63.48	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0104 LF 1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,088.82	46.69
For Up To 25, Add	272.21	
For >25 To 50, Add	163.32	
For >50 To 100, Add	81.66	
26 25 00 00-0105 LF 1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,290.73	46.69
For Up To 25, Add	322.68	
For >25 To 50, Add	193.61	
For >50 To 100, Add	96.80	
26 25 00 00-0106 LF 2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,559.09	46.69
For Up To 25, Add	389.77	
For >25 To 50, Add	233.86	
For >50 To 100, Add	116.93	
26 25 00 00-0107 LF 3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	2,395.36	79.89
For Up To 25, Add	598.84	
For >25 To 50, Add	359.30	
For >50 To 100, Add	179.65	
26 25 00 00-0108 LF 4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	3,004.24	79.89
For Up To 25, Add	751.06	
For >25 To 50, Add	450.64	
For >50 To 100, Add	225.32	
26 25 00 00-0109 LF 5,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	3,554.76	148.38
For Up To 25, Add	888.69	
For >25 To 50, Add	533.21	
For >50 To 100, Add	266.61	
26 25 00 00-0110 LF 6,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	4,383.61	148.38
For Up To 25, Add	1,095.90	
For >25 To 50, Add	657.54	
For >50 To 100, Add	328.77	

26 26 Power Distribution Units (26 20)

Note: Includes wiring connections and testing.

26 26 00 00-0001 Liebert Precision Power Center (26 26)

Note: With K20 Trans Spike Suppression Modules Lighting/Surge Arrestors. Includes start-up.

26 26 00 00-0002 EA PDU 15 KVA 480-208/120 (Liebert PPA01C)	11,290.10	319.06
26 26 00 00-0003 EA PDU 15 KVA 208-208/120 (Liebert PPC015C)	10,916.20	319.06
26 26 00 00-0004 EA PDU 30 KVA 480-208/120 (Liebert PPA030C)	12,714.72	345.83
26 26 00 00-0005 EA PDU 30 KVA 208-208/120 (Liebert PPC030C)	13,150.93	345.83
26 26 00 00-0006 EA PDU 50 KVA 480-208/120 (Liebert PPA050C)	14,369.44	383.91
26 26 00 00-0007 EA PDU 50 KVA 208-208/120 (Liebert PPC050C)	14,979.73	383.91
26 26 00 00-0008 EA PDU 75 KVA 480-208/120 (Liebert PPA075C)	15,844.21	415.03
26 26 00 00-0009 EA PDU 75 KVA 208-208/120 (Liebert PPC075C)	17,215.18	415.03
26 26 00 00-0010 EA PDU 100 KVA 480-208/120 (Liebert PPA100C)	17,277.29	518.80
26 26 00 00-0011 EA PDU 100 KVA 208-208/120 (Liebert PPC100C)	18,835.21	518.80
26 26 00 00-0012 EA PDU 125 KVA 480-208/120 (Liebert PPA125C)	19,416.63	622.55
26 26 00 00-0013 EA PDU 125 KVA 208-208/120 (Liebert PPC125C)	21,161.49	622.55
26 26 00 00-0014 EA PDU 150 KVA 480-208/120 (Liebert PPA150C)	23,487.78	726.32
26 26 00 00-0015 EA PDU 150 KVA 208-208/120 (Liebert PPC150C)	24,422.52	726.32
26 26 00 00-0016 EA PDU 200 KVA 480-208/120 (Liebert PPA200C)	25,938.48	830.07
26 26 00 00-0017 EA PDU 225 KVA 480-208/120 (Liebert PPA225C)	27,226.36	933.83
26 26 00 00-0018 EA Ex Panelboard 10-30 KVA	1,025.94	103.76
26 26 00 00-0019 EA Ex Panelboard 50-125 KVA	1,514.03	129.70
26 26 00 00-0020 EA Ex Panelboard 150-220 KVA	3,310.79	155.64
26 26 00 00-0021 EA Removal And Reinstallation Of Power Distribution Unit	1,660.15	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 26 00 00-0022 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,245.11	

26 27 Low-Voltage Distribution Equipment (26 20)**26 27 13 Electricity Metering** (26 27)**26 27 13 00-0001 Revenue Metering** (26 27 13)**26 27 13 00-0002 Meter Socket Base** (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	189.54	67.44
26 27 13 00-0004 EA 100 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	198.32	67.44
26 27 13 00-0005 EA 200 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	262.58	83.01
26 27 13 00-0006 EA 200 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	265.08	83.01
26 27 13 00-0007 EA 200 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	460.91	93.39
26 27 13 00-0008 EA 320 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release	597.25	103.76
26 27 13 00-0009 EA 400 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release	1,366.46	114.13
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15-30 A, 13 Terminal, Underground, With Test Switch And Transformer - Socket Base	1,866.91	518.80

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amp, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	160.71	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.76	
26 27 13 00-0013 EA 200 Amp, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	423.29	20.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.99	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)		
26 27 13 00-0015 EA Current Transformer Cover, Screwed, 18" x 24" x 9", NEMA 3R	406.42	134.89
26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0017 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max., 2 Pole (26 27 13 00-0016)		
26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	612.59	64.85
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	800.44	77.82
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	987.33	90.79
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,143.00	103.76
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,473.82	116.73
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,594.43	129.70
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max	1,864.10	155.64
26 27 13 00-0025 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max., 2 Pole (26 27 13 00-0016)		
26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	1,086.01	64.85
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	1,424.41	77.82
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	1,959.18	103.76
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	2,174.48	116.73
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max	2,721.17	129.70
26 27 13 00-0031 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0016)		
26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	931.47	90.79
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,211.17	103.76
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,473.82	116.73
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,726.99	129.70
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,160.07	142.67
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,271.24	155.64
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,805.99	181.57
26 27 13 00-0039 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0016)		
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,402.99	90.79
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,826.61	103.76
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,560.21	129.70
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,747.11	142.67
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,492.63	155.64
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0046 800 Amp Bus, 5 Jaw Sockets, 125 A Max., 2 Pole (26 27 13 00-0045)		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	672.61	77.82
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	870.87	90.79
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,068.20	103.76
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,237.11	116.73
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,509.22	129.70
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	1,629.84	142.67
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max	2,003.66	168.61
26 27 13 00-0054 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,149.83	77.82
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,507.15	90.79
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,165.01	116.73
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,380.31	129.70
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,870.24	142.67
26 27 13 00-0060 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	991.51	103.76
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,275.00	116.73
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,566.06	129.70
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,819.25	142.67
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,271.28	155.64
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,382.40	168.61
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,955.07	194.55
26 27 13 00-0068 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,476.29	103.76
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,928.32	116.73
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,747.15	142.67
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,877.22	155.64
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,632.23	168.61

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0075 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	612.59	64.85
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	800.44	77.82
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,143.00	103.76
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,473.82	116.73
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,812.20	129.70
26 27 13 00-0081 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,086.01	64.85
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	1,424.40	77.82
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,053.85	103.76
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,269.16	116.73
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC	2,721.17	129.70
26 27 13 00-0087 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	931.47	90.79
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,211.17	103.76
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,726.99	129.70
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,160.07	142.67
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,271.24	155.64
26 27 13 00-0093 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,403.00	90.79
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	1,826.61	103.76
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,560.21	129.70
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	2,747.11	142.67
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC	3,492.66	155.64
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0100 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	672.61	77.82
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	870.87	90.79
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,237.11	116.73
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,603.90	129.70
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,819.21	142.67
26 27 13 00-0106 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,149.82	77.82
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	1,507.14	90.79
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,070.32	116.73
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,285.62	129.70
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC	2,870.20	142.67
26 27 13 00-0112 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	991.50	103.76
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,274.98	116.73
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,819.21	142.67
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,271.24	155.64
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,382.40	168.61
26 27 13 00-0118 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole (26 27 13 00-0099)		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,476.28	103.76
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	1,928.30	116.73
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,747.11	142.67
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	2,877.22	155.64
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC	3,632.23	168.61
26 27 13 00-0124 Watt/Hour Meters (26 27 13)		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	678.85	62.25
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	1,982.10	124.51
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,086.88	93.39
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	1,303.12	93.39
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,118.65	93.39
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	742.92	86.12
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,276.49	155.64



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 27 13 00-0132	Watt/Hour Meter Systems (26 27 13) Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.				
26 27 13 00-0133	Watt/Hour Meter System Without Main Breaker (26 27 13 00-0132)				
26 27 13 00-0134	EA	400 Amp System; 200 Amp M-90 Meter And Enclosure.....	3,440.38		622.66
26 27 13 00-0135	EA	600-800 Amp System; 200 Amp M-90 Meter And Enclosure.....	3,950.70		622.66
26 27 13 00-0136	Watt/Hour Meter System With Main Breaker (26 27 13 00-0132)				
26 27 13 00-0137	EA	400 Amp System; 400 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	5,680.96		622.66
26 27 13 00-0138	EA	600 Amp System; 600 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	6,793.76		622.66
26 27 13 00-0139	EA	800 Amp System; 800 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure	7,265.69		622.66
26 27 16	Electrical Cabinets And Enclosures (26 27) Note: Can be used as enclosure or pull/junction boxes.				
26 27 16 00-0001	NEMA 1 Enclosures (26 27 16)				
26 27 16 00-0002	Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)				
26 27 16 00-0003	4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)				
26 27 16 00-0004	EA	6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	63.12		20.75
26 27 16 00-0005	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	70.58		22.83
26 27 16 00-0006	EA	8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	78.10		24.90
26 27 16 00-0007	EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	91.17		29.05
26 27 16 00-0008	EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	99.07		31.13
26 27 16 00-0009	EA	10" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	107.48		33.20
26 27 16 00-0010	EA	12" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	107.22		33.20
26 27 16 00-0011	EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	115.80		35.28
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	124.77		37.36
26 27 16 00-0013	EA	16" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	162.43		49.81
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	196.92		60.18
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	187.51		58.10
26 27 16 00-0016	6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)				
26 27 16 00-0017	EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	78.60		24.90
26 27 16 00-0018	EA	8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	94.89		29.05
26 27 16 00-0019	EA	10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	113.56		35.28
26 27 16 00-0020	EA	10" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	122.33		37.36
26 27 16 00-0021	EA	12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	131.26		39.43
26 27 16 00-0022	EA	12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	140.56		41.50
26 27 16 00-0023	EA	16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	179.07		53.96
26 27 16 00-0024	EA	16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	217.56		66.41
26 27 16 00-0025	EA	18" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	209.94		64.34
26 27 16 00-0026	EA	18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	273.05		83.01
26 27 16 00-0027	EA	24" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	345.32		95.46
26 27 16 00-0028	EA	24" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	392.12		103.76
26 27 16 00-0029	EA	30" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	433.97		109.99
26 27 16 00-0030	EA	36" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	470.63		114.13
26 27 16 00-0031	Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)				
26 27 16 00-0032	3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)				
26 27 16 00-0033	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	45.44		14.53
26 27 16 00-0034	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	64.96		20.75
26 27 16 00-0035	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	72.47		22.83
26 27 16 00-0036	4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)				
26 27 16 00-0037	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	50.80		16.60
26 27 16 00-0038	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	62.98		20.75
26 27 16 00-0039	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	70.36		22.83
26 27 16 00-0040	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	77.86		24.90
26 27 16 00-0041	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	90.85		29.05
26 27 16 00-0042	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	98.72		31.13
26 27 16 00-0043	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	106.99		33.20
26 27 16 00-0044	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	106.68		33.20
26 27 16 00-0045	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	115.31		35.28
26 27 16 00-0046	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	124.20		37.36
26 27 16 00-0047	EA	16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	162.43		49.81
26 27 16 00-0048	EA	16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	201.26		62.25
26 27 16 00-0049	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	186.73		58.10
26 27 16 00-0050	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	241.89		74.70
26 27 16 00-0051	EA	24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	349.69		93.39
26 27 16 00-0052	6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0053	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	78.30	24.90
26 27 16 00-0054	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	86.39	26.98
26 27 16 00-0055	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	99.58	31.13
26 27 16 00-0056	EA		10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	113.06	35.28
26 27 16 00-0057	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	121.81	37.36
26 27 16 00-0058	EA		12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.66	39.43
26 27 16 00-0059	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	139.87	41.50
26 27 16 00-0060	EA		16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	179.07	53.96
26 27 16 00-0061	EA		16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	220.01	66.41
26 27 16 00-0062	EA		18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	209.06	64.34
26 27 16 00-0063	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	271.85	83.01
26 27 16 00-0064	EA		24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	339.77	95.46
26 27 16 00-0065	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	389.57	103.76
26 27 16 00-0066	EA		30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	420.68	109.99
26 27 16 00-0067	EA		36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	460.35	114.13
26 27 16 00-0068 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0069	EA		8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	113.06	35.28
26 27 16 00-0070	EA		12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	154.30	45.65
26 27 16 00-0071	EA		16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	196.15	58.10
26 27 16 00-0072	EA		16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	243.44	72.63
26 27 16 00-0073	EA		18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	232.65	70.56
26 27 16 00-0074	EA		18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	288.20	87.16
26 27 16 00-0075	EA		24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	321.34	99.61
26 27 16 00-0076	EA		24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	373.00	105.84
26 27 16 00-0077	EA		24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	429.60	114.13
26 27 16 00-0078	EA		30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	457.14	120.37
26 27 16 00-0079	EA		30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	480.33	124.51
26 27 16 00-0080	EA		36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	493.15	124.51
26 27 16 00-0081 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0082	EA		18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	264.06	78.86
26 27 16 00-0083	EA		18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	347.60	101.68
26 27 16 00-0084	EA		24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	351.69	107.91
26 27 16 00-0085	EA		24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	456.99	116.21
26 27 16 00-0086	EA		24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	526.08	128.66
26 27 16 00-0087	EA		30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	584.13	132.81
26 27 16 00-0088	EA		36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	623.20	139.04
26 27 16 00-0089 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)					
26 27 16 00-0090	EA		18" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	383.76	112.06
26 27 16 00-0091	EA		24" x 12" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	382.01	118.28
26 27 16 00-0092	EA		24" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	502.43	128.66
26 27 16 00-0093	EA		24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	574.22	141.11
26 27 16 00-0094	EA		30" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	644.69	147.33
26 27 16 00-0095	EA		36" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	680.03	153.56
26 27 16 00-0096 NEMA 12 Enclosures (26 27 16)					
Note: Dust-tight enclosures.					
26 27 16 00-0097 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)					
26 27 16 00-0098 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0097)					
26 27 16 00-0099	EA		4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	84.01	16.60
26 27 16 00-0100	EA		6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	109.94	22.83
26 27 16 00-0101	EA		8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	136.37	29.05
26 27 16 00-0102	EA		10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	147.50	31.13
26 27 16 00-0103	EA		12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	164.81	33.20
26 27 16 00-0104	EA		12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	177.32	35.28
26 27 16 00-0105 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0097)					
26 27 16 00-0106	EA		6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	121.86	24.90
26 27 16 00-0107	EA		8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	134.06	26.98
26 27 16 00-0108 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)					
26 27 16 00-0109 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0108)					
26 27 16 00-0110	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	89.15	16.60
26 27 16 00-0111	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	111.83	22.83
26 27 16 00-0112	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	124.92	24.90
26 27 16 00-0113	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	143.87	29.05
26 27 16 00-0114	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	150.07	31.13
26 27 16 00-0115	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	171.27	33.20
26 27 16 00-0116	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	183.27	35.28
26 27 16 00-0117	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	203.88	37.36



	Electrical	26	
	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0118 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0108)		
26 27 16 00-0119 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	131.30	24.90
26 27 16 00-0120 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	146.47	26.98
26 27 16 00-0121 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	162.54	31.13
26 27 16 00-0122 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	193.15	37.36
26 27 16 00-0123 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	211.33	41.50
26 27 16 00-0124 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	287.30	53.96
26 27 16 00-0125 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	444.20	83.01
26 27 16 00-0126 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	559.61	95.46
26 27 16 00-0127 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	624.45	103.76
26 27 16 00-0128 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0108)		
26 27 16 00-0129 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	594.06	105.84
26 27 16 00-0130 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	671.50	114.13
26 27 16 00-0131 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	729.59	120.37
26 27 16 00-0132 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	790.68	124.51
26 27 16 00-0133 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	782.67	124.51
26 27 16 00-0134 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)		
26 27 16 00-0135 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)		
26 27 16 00-0136 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,060.72	168.61
26 27 16 00-0137 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)		
26 27 16 00-0138 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,102.84	186.76
26 27 16 00-0139 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,392.72	199.74
26 27 16 00-0140 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,778.40	249.03
26 27 16 00-0141 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	3,123.30	293.63
26 27 16 00-0142 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)		
26 27 16 00-0143 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,369.54	293.63
26 27 16 00-0144 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,619.94	311.28
26 27 16 00-0145 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,946.91	332.03
26 27 16 00-0146 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	3,205.87	332.03
26 27 16 00-0147 NEMA 3 Enclosures (26 27 16)		
Note: Can be used underground or encased in concrete.		
26 27 16 00-0148 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0149 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	242.60	72.63
26 27 16 00-0150 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0151 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	258.00	72.63
26 27 16 00-0152 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	321.51	75.22
26 27 16 00-0153 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	331.99	75.22
26 27 16 00-0154 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	409.33	77.82
26 27 16 00-0155 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0156 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	318.67	75.22
26 27 16 00-0157 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	346.08	75.22
26 27 16 00-0158 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	360.48	77.82
26 27 16 00-0159 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	444.67	77.82
26 27 16 00-0160 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	487.64	83.01
26 27 16 00-0161 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	524.37	88.20
26 27 16 00-0162 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	544.39	88.20
26 27 16 00-0163 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	640.83	90.79
26 27 16 00-0164 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	692.85	93.39
26 27 16 00-0165 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	937.46	103.76
26 27 16 00-0166 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0167 EA 6" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	468.81	80.41
26 27 16 00-0168 EA 8" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	585.92	90.79
26 27 16 00-0169 EA 8" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	680.54	93.39
26 27 16 00-0170 EA 10" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	778.94	95.98
26 27 16 00-0171 EA 10" x 10" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	826.16	95.98
26 27 16 00-0172 EA 12" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	937.21	103.76

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0173 EA 12" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,082.58	116.73
26 27 16 00-0174 EA 16" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,020.81	111.54
26 27 16 00-0175 EA 18" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,980.40	207.52
26 27 16 00-0176 EA 18" x 18" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,385.28	259.39
26 27 16 00-0177 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0178 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	834.73	98.57
26 27 16 00-0179 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,246.80	129.70
26 27 16 00-0180 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,266.09	129.70
26 27 16 00-0181 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,723.88	194.55
26 27 16 00-0182 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,248.31	207.52
26 27 16 00-0183 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	5,630.85	363.16
26 27 16 00-0184 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0185 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,989.99	259.39
26 27 16 00-0186 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)		
26 27 16 00-0187 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,558.64	311.28
26 27 16 00-0188 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,762.36	285.34
26 27 16 00-0189 NEMA 3R Enclosures (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0190 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0189)		
26 27 16 00-0191 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)		
26 27 16 00-0192 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	73.83	20.75
26 27 16 00-0193 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	81.44	22.83
26 27 16 00-0194 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	107.20	22.83
26 27 16 00-0195 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)		
26 27 16 00-0196 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	141.27	31.13
26 27 16 00-0197 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	158.32	35.28
26 27 16 00-0198 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	183.96	39.43
26 27 16 00-0199 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	197.84	41.50
26 27 16 00-0200 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	257.51	53.96
26 27 16 00-0201 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	309.67	66.41
26 27 16 00-0202 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	360.27	83.01
26 27 16 00-0203 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)		
26 27 16 00-0204 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	528.61	105.84
26 27 16 00-0205 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	583.29	114.13
26 27 16 00-0206 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	649.16	120.37
26 27 16 00-0207 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	680.88	124.51
26 27 16 00-0208 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)		
26 27 16 00-0209 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	653.12	128.66
26 27 16 00-0210 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	737.71	145.26
26 27 16 00-0211 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	816.91	160.83
26 27 16 00-0212 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	899.42	177.43
26 27 16 00-0213 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	979.66	192.99
26 27 16 00-0214 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	441.61	101.68
26 27 16 00-0215 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	653.12	128.66
26 27 16 00-0216 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	755.41	132.81
26 27 16 00-0217 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	935.32	145.26
26 27 16 00-0218 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)		
26 27 16 00-0219 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	613.08	102.72
26 27 16 00-0220 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	687.84	115.18
26 27 16 00-0221 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	761.57	127.63
26 27 16 00-0222 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	841.66	141.11
26 27 16 00-0223 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	916.43	153.56
26 27 16 00-0224 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	458.21	76.78
26 27 16 00-0225 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	613.08	102.72
26 27 16 00-0226 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	687.84	115.18
26 27 16 00-0227 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	804.80	134.89
26 27 16 00-0228 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	916.43	153.56
26 27 16 00-0229 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	876.08	151.49
26 27 16 00-0230 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	916.43	153.56
26 27 16 00-0231 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	961.63	157.71
26 27 16 00-0232 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,062.32	166.02



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0233 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,146.92	174.31
26 27 16 00-0234 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0189)		
26 27 16 00-0235 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)		
26 27 16 00-0236 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	58.66	16.60
26 27 16 00-0237 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	71.20	20.75
26 27 16 00-0238 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	78.58	22.83
26 27 16 00-0239 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	86.96	24.90
26 27 16 00-0240 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	101.04	29.05
26 27 16 00-0241 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	109.91	31.13
26 27 16 00-0242 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	119.48	33.20
26 27 16 00-0243 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	119.01	33.20
26 27 16 00-0244 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	129.67	35.28
26 27 16 00-0245 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	139.24	37.36
26 27 16 00-0246 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	211.03	58.10
26 27 16 00-0247 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure	280.36	74.70
26 27 16 00-0248 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)		
26 27 16 00-0249 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	82.27	24.90
26 27 16 00-0250 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	111.18	31.13
26 27 16 00-0251 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	125.95	35.28
26 27 16 00-0252 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	136.17	37.36
26 27 16 00-0253 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	135.48	37.36
26 27 16 00-0254 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	146.25	39.43
26 27 16 00-0255 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	157.12	41.50
26 27 16 00-0256 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	204.98	53.96
26 27 16 00-0257 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	236.84	64.34
26 27 16 00-0258 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	314.92	83.01
26 27 16 00-0259 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	329.75	89.23
26 27 16 00-0260 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	374.38	95.46
26 27 16 00-0261 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	420.23	103.76
26 27 16 00-0262 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)		
26 27 16 00-0263 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	175.55	45.65
26 27 16 00-0264 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	255.98	70.56
26 27 16 00-0265 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	348.23	91.30
26 27 16 00-0266 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	414.33	105.84
26 27 16 00-0267 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	466.63	114.13
26 27 16 00-0268 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure	515.92	120.37
26 27 16 00-0269 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)		
26 27 16 00-0270 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	384.54	101.68
26 27 16 00-0271 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	514.34	128.66
26 27 16 00-0272 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	561.06	132.81
26 27 16 00-0273 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)		
26 27 16 00-0274 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	567.80	141.11
26 27 16 00-0275 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	774.29	153.56
26 27 16 00-0276 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	799.85	157.71
26 27 16 00-0277 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	928.36	166.02
26 27 16 00-0278 NEMA 4 Enclosures (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0279 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0278)		
26 27 16 00-0280 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	94.57	14.53
26 27 16 00-0281 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	110.51	17.64
26 27 16 00-0282 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	138.24	22.83
26 27 16 00-0283 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	131.62	22.83
26 27 16 00-0284 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	175.96	31.13
26 27 16 00-0285 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	219.11	37.36
26 27 16 00-0286 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	202.47	35.28
26 27 16 00-0287 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	236.07	41.50
26 27 16 00-0288 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	277.68	47.73
26 27 16 00-0289 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	336.78	60.18
26 27 16 00-0290 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0278)		
26 27 16 00-0291 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	86.88	14.53
26 27 16 00-0292 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	123.95	22.83
26 27 16 00-0293 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0278)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0294 EA 6" x 6" x 4" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	109.24	19.93
26 27 16 00-0295 EA 8" x 6" x 4" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	116.08	21.58
26 27 16 00-0296 EA 10" x 8" x 6" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	142.63	28.22
26 27 16 00-0297 EA 12" x 10" x 6" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	166.65	31.13
26 27 16 00-0298 EA 14" x 12" x 8" Screw Cover, Fiberglass NEMA 4 Enclosure	215.40	39.43
26 27 16 00-0299 EA 16" x 14" x 8" Screw Cover, Fiberglass NEMA 4 Enclosure	251.83	46.69
26 27 16 00-0300 EA 18" x 16" x 10" Screw Cover, Fiberglass NEMA 4 Enclosure	355.31	74.70
26 27 16 00-0301 NEMA 4X Enclosures (26 27 16) Note: Water-tight enclosures.		
26 27 16 00-0302 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0301)		
26 27 16 00-0303 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	187.38	16.60
26 27 16 00-0304 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	221.14	22.83
26 27 16 00-0305 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	280.46	31.13
26 27 16 00-0306 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	340.45	37.36
26 27 16 00-0307 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	419.84	47.73
26 27 16 00-0308 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	496.05	60.18
26 27 16 00-0309 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0301)		
26 27 16 00-0310 EA 4" x 4" x 3" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	168.62	14.53
For 316L Stainless Steel, Add	35.72	
26 27 16 00-0311 EA 6" x 4" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	221.18	20.75
For 316L Stainless Steel, Add	45.71	
26 27 16 00-0312 EA 6" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	249.94	22.83
For 316L Stainless Steel, Add	52.07	
26 27 16 00-0313 EA 8" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	284.83	24.90
For 316L Stainless Steel, Add	60.10	
26 27 16 00-0314 EA 10" x 8" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	350.37	31.13
For 316L Stainless Steel, Add	73.59	
26 27 16 00-0315 EA 12" x 10" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	488.45	39.43
For 316L Stainless Steel, Add	105.27	
26 27 16 00-0316 EA 14" x 12" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	607.50	47.73
For 316L Stainless Steel, Add	131.81	
26 27 16 00-0317 EA 16" x 14" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure.....	735.02	60.18
For 316L Stainless Steel, Add	157.83	
26 27 16 00-0318 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0301) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0319 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	98.43	22.83
26 27 16 00-0320 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	110.14	24.90
26 27 16 00-0321 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	126.51	29.05
26 27 16 00-0322 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	137.14	31.13
26 27 16 00-0323 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	157.86	35.28
26 27 16 00-0324 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	150.24	35.28
26 27 16 00-0325 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	173.64	39.43
26 27 16 00-0326 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	216.19	47.73
26 27 16 00-0327 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	279.88	65.37
26 27 16 00-0328 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	368.87	94.11
26 27 16 00-0329 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	104.42	22.83
26 27 16 00-0330 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	117.22	24.90
26 27 16 00-0331 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	134.13	29.05
26 27 16 00-0332 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	146.39	31.13
26 27 16 00-0333 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	167.66	35.28
26 27 16 00-0334 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	159.50	35.28
26 27 16 00-0335 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	186.19	39.43
26 27 16 00-0336 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	222.72	47.73
26 27 16 00-0337 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	293.49	65.37
26 27 16 00-0338 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	383.56	94.11
26 27 16 00-0339 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0301) Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0340 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	115.31	22.83
26 27 16 00-0341 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	123.75	24.90
26 27 16 00-0342 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	141.20	29.05
26 27 16 00-0343 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	152.38	31.13
26 27 16 00-0344 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	179.09	35.28
26 27 16 00-0345 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	167.12	35.28
26 27 16 00-0346 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	201.97	39.43
26 27 16 00-0347 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	240.69	47.73
26 27 16 00-0348 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	301.11	65.37
26 27 16 00-0349 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	396.62	94.11
26 27 16 00-0350 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	119.66	22.83
26 27 16 00-0351 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	131.91	24.90
26 27 16 00-0352 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	148.82	29.05
26 27 16 00-0353 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	160.54	31.13
26 27 16 00-0354 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	189.97	35.28
26 27 16 00-0355 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	176.36	35.28



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Distribution Equipment			26 27

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0356	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	213.40		39.43
26 27 16 00-0357	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	246.13		47.73
26 27 16 00-0358	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	319.07		65.37
26 27 16 00-0359	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	415.67		94.11
26 27 16 00-0360		NEMA 7/9 Enclosures (26 27 16) Note: Nominal inside dimensions.			
26 27 16 00-0361		4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)			
26 27 16 00-0362	EA	6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	984.37		116.73
		For Mounting Pan, Add	39.75		
26 27 16 00-0363	EA	6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	798.40		124.51
		For Mounting Pan, Add	74.07		
26 27 16 00-0364	EA	8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,516.35		140.07
		For Mounting Pan, Add	102.13		
26 27 16 00-0365		6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)			
26 27 16 00-0366	EA	8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,355.04		140.07
		For Mounting Pan, Add	51.93		
26 27 16 00-0367	EA	8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,749.16		143.97
		For Mounting Pan, Add	102.13		
26 27 16 00-0368	EA	8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,793.29		155.64
		For Mounting Pan, Add	78.13		
26 27 16 00-0369	EA	10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,838.63		155.64
		For Mounting Pan, Add	91.41		
26 27 16 00-0370	EA	10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,588.64		194.55
		For Mounting Pan, Add	119.92		
26 27 16 00-0371	EA	12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,436.84		175.09
		For Mounting Pan, Add	74.88		
26 27 16 00-0372	EA	12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,526.56		194.55
		For Mounting Pan, Add	112.04		
26 27 16 00-0373	EA	12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,924.11		350.19
		For Mounting Pan, Add	150.73		
26 27 16 00-0374	EA	14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,096.60		233.46
		For Mounting Pan, Add	146.76		
26 27 16 00-0375	EA	16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,099.37		389.10
		For Mounting Pan, Add	134.74		
26 27 16 00-0376	EA	18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,880.05		389.10
		For Mounting Pan, Add	219.04		
26 27 16 00-0377		8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)			
26 27 16 00-0378	EA	8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,090.28		175.09
		For Mounting Pan, Add	78.13		
26 27 16 00-0379	EA	10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,104.38		175.09
		For Mounting Pan, Add	91.41		
26 27 16 00-0380	EA	10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,372.74		175.09
		For Mounting Pan, Add	119.92		
26 27 16 00-0381	EA	12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,629.40		194.55
		For Mounting Pan, Add	74.88		
26 27 16 00-0382	EA	12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,851.42		350.19
		For Mounting Pan, Add	112.04		
26 27 16 00-0383	EA	12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,687.48		428.01
		For Mounting Pan, Add	150.73		
26 27 16 00-0384	EA	12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,290.05		505.82
		For Mounting Pan, Add	226.69		
26 27 16 00-0385	EA	14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,239.28		428.01
		For Mounting Pan, Add	146.76		
26 27 16 00-0386	EA	16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,349.72		428.01
		For Mounting Pan, Add	134.74		
26 27 16 00-0387	EA	16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,406.90		466.91
		For Mounting Pan, Add	201.96		
26 27 16 00-0388	EA	18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,310.08		428.01
		For Mounting Pan, Add	219.04		
26 27 16 00-0389	EA	18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,047.88		466.91
		For Mounting Pan, Add	320.30		
26 27 16 00-0390	EA	18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,000.99		466.91
		For Mounting Pan, Add	427.00		
26 27 16 00-0391	EA	18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	10,825.18		622.55
		For Mounting Pan, Add	533.67		
26 27 16 00-0392	EA	24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,252.70		505.82
		For Mounting Pan, Add	496.22		
26 27 16 00-0393	EA	24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	14,892.35		778.19
		For Mounting Pan, Add	679.32		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 27 16 00-0394	10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)				
26 27 16 00-0395	EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,574.15		505.82	
	For Mounting Pan, Add	226.69			
26 27 16 00-0396	EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,972.76		466.91	
	For Mounting Pan, Add	201.96			
26 27 16 00-0397	EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,595.29		505.82	
	For Mounting Pan, Add	320.30			
26 27 16 00-0398	EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	9,553.82		544.73	
	For Mounting Pan, Add	533.67			
26 27 16 00-0399	EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,480.80		544.73	
	For Mounting Pan, Add	496.22			
26 27 16 00-0400	EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	16,193.83		778.19	
	For Mounting Pan, Add	679.32			
26 27 16 00-0401	12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0360)				
26 27 16 00-0402	EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,788.81		428.01	
	For Mounting Pan, Add	150.73			
26 27 16 00-0403	Breaker Enclosures (26 27 16)				
	See CSI section 26 24 16 00-0001 for lighting and power panel boards.				
26 27 16 00-0404	15 To 100 Amp, F-Frame Breaker Enclosures (26 27 16 00-0403)				
26 27 16 00-0405	EA NEMA 1, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure	343.68		83.01	
26 27 16 00-0406	EA NEMA 3R, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure	636.02		83.01	
26 27 16 00-0407	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amp, F-Frame Breaker Enclosure	1,573.40		114.13	
26 27 16 00-0408	EA NEMA 7, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure	2,134.66		124.51	
26 27 16 00-0409	EA NEMA 9, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure	1,554.68		124.51	
26 27 16 00-0410	EA NEMA 12, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure	543.18		114.13	
26 27 16 00-0411	15 To 250 Amp, H Or J-Frame Breaker Enclosures (26 27 16 00-0403)				
26 27 16 00-0412	EA NEMA 1, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure	549.74		114.13	
26 27 16 00-0413	EA NEMA 3R, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure	1,017.88		114.13	
26 27 16 00-0414	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure	3,491.21		145.26	
26 27 16 00-0415	EA NEMA 12, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure	837.59		145.26	
26 27 16 00-0416	125 To 400 Amp, L-Frame Breaker Enclosures (26 27 16 00-0403)				
26 27 16 00-0417	EA NEMA 1, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure	857.91		228.27	
26 27 16 00-0418	EA NEMA 3R, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure	2,012.31		228.27	
26 27 16 00-0419	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amp, L-Frame Breaker Enclosure	5,913.71		290.53	
26 27 16 00-0420	EA NEMA 12, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure	1,429.78		290.53	
26 27 16 00-0421	300 To 800 Amp, M-Frame Breaker Enclosures (26 27 16 00-0403)				
26 27 16 00-0422	EA NEMA 1, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure	1,680.97		435.79	
26 27 16 00-0423	EA NEMA 3R, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure	2,901.09		435.79	
26 27 16 00-0424	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amp, M-Frame Breaker Enclosure	10,638.01		560.30	
26 27 16 00-0425	EA NEMA 12, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure	5,743.43		560.30	
26 27 16 00-0426	250 To 1,200 Amp, P-Frame Breaker Enclosures (26 27 16 00-0403)				
26 27 16 00-0427	EA NEMA 1, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure	2,056.03		435.79	
26 27 16 00-0428	EA NEMA 3R, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure	3,494.23		435.79	
26 27 16 00-0429	EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure	7,228.63		560.30	
26 27 16 00-0430	Legend Plates (26 27 16)				
26 27 16 00-0431	EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters	12.74		5.19	
26 27 16 00-0432	EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	14.75		5.19	
26 27 23	Indoor Service Poles (26 27)				
26 27 23 00-0001	Communication And Power Poles (26 27 23)				
	Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.				
26 27 23 00-0002	Steel Communication And Power Poles (26 27 23 00-0001)				
26 27 23 00-0003	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)				
26 27 23 00-0004	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)				
26 27 23 00-0005	EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	233.97		46.00	
26 27 23 00-0006	EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	252.41		46.00	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0007	EA	2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	273.74	46.00
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003) Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle	40.45	9.49
26 27 23 00-0010	EA	Add-On Cover Plate For Three Duplex Receptacles	42.11	9.49
26 27 23 00-0011	EA	Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	47.12	9.49
26 27 23 00-0012	EA	Add-On Cover Plate For Data And A/V Modular Devices	36.00	9.49
26 27 23 00-0013	EA	Add-On Radius Control Entrance End Fitting	30.39	9.49
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016	EA	2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	297.21	46.00
26 27 23 00-0017	EA	2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	336.84	46.00
26 27 23 00-0018	EA	2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	358.23	46.00
26 27 23 00-0019		Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA	Add-On Cover Plate For One Single Receptacle.....	33.52	9.49
26 27 23 00-0021	EA	Add-On Cover Plate For One Duplex Receptacle.....	30.56	9.49
26 27 23 00-0022	EA	Add-On Cover Plate For Data And A/V Modular Devices	32.68	9.49
26 27 23 00-0023		3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024		3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025	EA	3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	381.20	46.00
26 27 23 00-0026	EA	3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	428.91	46.00
26 27 23 00-0027	EA	3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	460.36	46.00
26 27 23 00-0028		Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA	Add-On Cover Plate For One Single Receptacle.....	33.52	9.49
26 27 23 00-0030	EA	Add-On Cover Plate For One Duplex Receptacle.....	30.56	9.49
26 27 23 00-0031	EA	Add-On Cover Plate For Data And A/V Modular Devices	32.68	9.49
26 27 23 00-0032		Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035	EA	2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	309.62	46.00
26 27 23 00-0036	EA	2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	342.98	46.00
26 27 23 00-0037	EA	2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	380.37	46.00
26 27 23 00-0038		Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039	EA	Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle	49.07	9.49
26 27 23 00-0040	EA	Add-On Cover Plate For Three Duplex Receptacles	50.01	9.49
26 27 23 00-0041	EA	Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	53.14	9.49
26 27 23 00-0042	EA	Add-On Cover Plate For Data And A/V Modular Devices	37.76	9.49
26 27 23 00-0043	EA	Add-On Radius Control Entrance End Fitting	30.39	9.49
26 27 23 00-0044		2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0045	EA	2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	299.20	46.00
26 27 23 00-0046	EA	2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	333.41	46.00
26 27 23 00-0047	EA	2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	373.72	46.00
26 27 23 00-0048		5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049	EA	5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	603.92	46.00
26 27 23 00-0050	EA	5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	687.83	46.00
26 27 23 00-0051	EA	5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	781.80	46.00
26 27 23 00-0052		2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053	EA	2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	337.44	46.00
26 27 23 00-0054	EA	2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole	320.53	46.00

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0055	EA	2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole	404.92		46.00
26 27 26 Wiring Devices (26 27)					
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.					
26 27 26 00-0001		Receptacles (26 27 26)			
26 27 26 00-0002		General Use Receptacles (26 27 26 00-0001)			
26 27 26 00-0003		Receptacle Assemblies (26 27 26 00-0002)			
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.					
26 27 26 00-0004	EA	1 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly	80.41		36.84
26 27 26 00-0005	EA	1 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly	86.02		39.43
26 27 26 00-0006	EA	2 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly	103.06		47.21
26 27 26 00-0007	EA	2 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly	114.27		52.39
26 27 26 00-0008	EA	1 Gang, 15 Amp, GFI, Duplex Receptacle Assembly	86.09		36.84
26 27 26 00-0009	EA	1 Gang, 20 Amp, GFI, Duplex Receptacle Assembly	92.00		39.43
26 27 26 00-0010		Receptacle Components (26 27 26 00-0002)			
26 27 26 00-0011	EA	15 Amp, NEMA 5-15, Single Receptacle, 125 Volt, 1 Phase	22.30		10.38
26 27 26 00-0012	EA	15 Amp, NEMA 5-15, Duplex Receptacle, 125 Volt, 1 Phase	21.97		10.38
26 27 26 00-0013	EA	15 Amp, Single Receptacle, 120/277 Volt, 3 Wire	23.92		10.38
26 27 26 00-0014	EA	15 Amp, Duplex Receptacle, 120/277 Volt, 3 Wire	25.05		10.38
26 27 26 00-0015	EA	15 Amp, NEMA 6-15, Single Receptacle, 250 Volt, 1 Phase	31.68		12.97
26 27 26 00-0016	EA	15 Amp, NEMA 6-15, Duplex Receptacle, 250 Volt, 1 Phase	35.39		12.97
26 27 26 00-0017	EA	20 Amp, NEMA 5-20, Single Receptacle, 125 Volt, 1 Phase	22.74		10.38
26 27 26 00-0018	EA	20 Amp, NEMA 5-20, Duplex Receptacle, 125 Volt, 1 Phase	22.39		10.38
26 27 26 00-0019	EA	20 Amp, Single Receptacle, 120/277 Volt	27.48		10.38
26 27 26 00-0020	EA	20 Amp, Duplex Receptacle, 120/277 Volt	24.70		10.38
26 27 26 00-0021	EA	20 Amp, NEMA 6-20, Single Receptacle, 250 Volt, 1 Phase	31.68		12.97
26 27 26 00-0022	EA	20 Amp, NEMA 6-20, Duplex Receptacle, 250 Volt, 1 Phase	35.39		12.97
26 27 26 00-0023	EA	20 Amp, NEMA 14-20, Single Receptacle, 125/250 Volt, 1 Phase	47.29		12.97
26 27 26 00-0024	EA	20 Amp, NEMA 15-20, Single Receptacle, 250 Volt, 3 Phase	47.29		12.97
26 27 26 00-0025	EA	25 Amp, Duplex Receptacle, 120/277 Volt	44.84		15.57
26 27 26 00-0026		Specialty Receptacles (26 27 26 00-0001)			
26 27 26 00-0027		Specialty Receptacles (26 27 26 00-0026)			
26 27 26 00-0028	EA	30 Amp, NEMA 5-30, Single Receptacle, 125 Volt, 1 Phase	44.73		18.16
26 27 26 00-0029	EA	30 Amp, NEMA 6-30, Single Receptacle, 250 Volt, 1 Phase	44.73		18.16
26 27 26 00-0030	EA	30 Amp, NEMA 10-30 Single Receptacles, 125/250 Volt	57.23		18.16
26 27 26 00-0031	EA	30 Amp, NEMA 14-30, Single Receptacle, 125/250 Volt, 1 Phase	57.66		18.16
26 27 26 00-0032	EA	30 Amp, NEMA 15-30, Single Receptacle, 250 Volt, 3 Phase	62.85		20.75
26 27 26 00-0033	EA	50 Amp, NEMA 5-50, Single Receptacle, 125 Volt, 1 Phase	59.77		20.75
26 27 26 00-0034	EA	50 Amp, NEMA 6-50, Single Receptacle, 250 Volt, 1 Phase	58.90		20.75
26 27 26 00-0035	EA	50 Amp, NEMA 7-50 Single Receptacles, 277 Volt	54.42		20.75
26 27 26 00-0036	EA	50 Amp, NEMA 10-50 Single Receptacles, 125/250 Volt	68.28		20.75
26 27 26 00-0037	EA	50 Amp, NEMA 14-50, Single Receptacle, 125/250 Volt, 1 Phase	67.60		20.75
26 27 26 00-0038	EA	50 Amp, NEMA 15-50, Single Receptacle, 250 Volt, 3 Phase	72.79		23.34
26 27 26 00-0039	EA	60 Amp, NEMA 14-60, Single Receptacle, 125/250 Volt, 1 Phase	80.35		25.94
26 27 26 00-0040	EA	60 Amp, NEMA 15-60, Single Receptacle, 250 Volt, 3 Phase	90.72		31.13
26 27 26 00-0041	EA	100 Amp, 3 Phase, 480 Volt Joy Receptacle With Box - Complete	804.53		243.84
26 27 26 00-0042	EA	400 Amp, 4 Pole Weatherproof Generator Receptacle With Box - Complete	1,646.21		298.30
26 27 26 00-0043	EA	30 Amp, Dryer Receptacle, 230 Volt	52.39		20.75
26 27 26 00-0044	EA	60 Amp, Range Receptacle, 230 Volt	77.51		31.13
26 27 26 00-0045	EA	15 Or 20 Amp, Clock Hanger Receptacle, 120/277 Volt	42.15		12.97
26 27 26 00-0046	EA	Cable Reel With 20 Amp, 120 Volt Receptacle - Complete	909.67		316.16
26 27 26 00-0047		Isolated Ground Receptacles (26 27 26 00-0026)			
26 27 26 00-0048	EA	15 Amp, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex	55.73		10.38
Note: 2 Pole, 3 wire.					
26 27 26 00-0049	EA	20 Amp, 120 Volt Isolated Ground Receptacles, Simplex	37.93		12.97
26 27 26 00-0050	EA	20 Amp, 120 Volt Isolated Ground Receptacles, Duplex	37.84		12.97
26 27 26 00-0051	EA	30 Amp, 120 Volt Isolated Ground Receptacles, Simplex	55.55		20.75
26 27 26 00-0052	EA	Locking 15 Amp, 250 Volt Isolated Ground Receptacles	40.78		12.97
26 27 26 00-0053	EA	Locking 15 Amp, 277 Volt Isolated Ground Receptacles	38.56		12.97
26 27 26 00-0054	EA	Locking 20 Amp, 120/208 Volt Isolated Ground Receptacles	50.70		15.57
26 27 26 00-0055	EA	Locking 20 Amp, 277/480 Volt Isolated Ground Receptacles	43.78		15.57
26 27 26 00-0056	EA	Locking 20 Amp, 347/600 Volt Isolated Ground Receptacles	51.53		15.57
26 27 26 00-0057	EA	Locking 30 Amp, 120/208 Volt Isolated Ground Receptacles	59.07		15.57
26 27 26 00-0058	EA	Locking 30 Amp, 277 Volt Isolated Ground Receptacles	64.12		20.75
26 27 26 00-0059		Explosion Proof Receptacles (26 27 26 00-0026)			
26 27 26 00-0060	EA	1/2", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	495.03		25.94
26 27 26 00-0061	EA	3/4", 20 Amp, 2 Watt., 3 Pole, Type CPS Explosion Proof Receptacle Assembly	459.67		28.53
26 27 26 00-0062	EA	3/4", 30 Amp, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	767.68		51.88



Electrical		26	26
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0063 EA 3/4", 30 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	956.63	51.88
26 27 26 00-0064 EA 1-1/4", 60 Amp, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,219.88	77.82
26 27 26 00-0065 EA 1-1/4", 60 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,165.17	77.82
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	25.06	12.97
26 27 26 00-0068 EA 20 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	38.75	15.57
26 27 26 00-0069 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0070 EA Locking, 15 Amp, 250 Volt, NEMA L15-15 Power Receptacles, 2 Phase	47.76	12.97
26 27 26 00-0071 EA Locking, 15 Amp, 250 Volt, NEMA L16-15 Power Receptacles, 2 Phase	49.05	12.97
26 27 26 00-0072 EA Locking, 20 Amp, 125 Volt, NEMA L5-20 Power Receptacles	39.55	15.57
26 27 26 00-0073 EA Locking, 20 Amp, 250 Volt, NEMA L6-20 Power Receptacles	39.60	15.57
26 27 26 00-0074 EA Locking, 20 Amp, 480 Volt, NEMA L8-20 Power Receptacles	41.35	15.57
26 27 26 00-0075 EA Locking, 20 Amp, 600 Volt, NEMA L9-20 Power Receptacles	45.39	15.57
26 27 26 00-0076 EA Locking, 20 Amp, 125/250 Volt, NEMA L10-20 Power Receptacles	42.99	15.57
26 27 26 00-0077 EA Locking, 20 Amp, 125/250 Volt, NEMA L14-20 Power Receptacles	43.59	15.57
26 27 26 00-0078 EA Locking, 30 Amp, 120 Volt AC, NEMA L5-30 Power Receptacles	51.14	20.75
26 27 26 00-0079 EA Locking, 30 Amp, 250 Volt AC, NEMA L6-30 Power Receptacles	51.69	20.75
26 27 26 00-0080 EA Locking, 30 Amp, 250 Volt, NEMA L15-30 Power Receptacles, 3 Phase	57.57	20.75
26 27 26 00-0081 Hospital Grade Receptacle (26 27 26 00-0026)		
26 27 26 00-0082 EA 15 Amp Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle	37.34	10.38
26 27 26 00-0083 EA 20 Amp Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	39.93	10.38
26 27 26 00-0084 EA 20 Amp Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	44.83	10.38
26 27 26 00-0085 EA 20 Amp Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	40.30	10.38
26 27 26 00-0086 EA 20 Amp Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	45.36	10.38
26 27 26 00-0087 EA 20 Amp Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle	49.29	10.38
26 27 26 00-0088 EA 120 Volt Transient Voltage Surge Suppressor Receptacle	98.00	31.13
Note: Hospital grade receptacle.		
26 27 26 00-0089 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0090 EA 20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	188.26	51.88
26 27 26 00-0091 EA 20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	187.91	51.88
26 27 26 00-0092 EA 20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	194.50	51.88
26 27 26 00-0093 EA 20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	232.82	57.07
26 27 26 00-0094 EA 20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	233.37	57.07
26 27 26 00-0095 EA 20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	232.10	57.07
26 27 26 00-0096 EA 30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	274.91	63.81
26 27 26 00-0097 EA 30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	264.19	63.81
26 27 26 00-0098 EA 30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	280.97	63.81
26 27 26 00-0099 EA 30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	287.80	70.04
26 27 26 00-0100 EA 30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	287.59	70.04
26 27 26 00-0101 EA 30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	289.11	70.04
26 27 26 00-0102 EA 60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	393.75	83.01
26 27 26 00-0103 EA 60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	380.77	83.01
26 27 26 00-0104 EA 60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	389.22	83.01
26 27 26 00-0105 EA 60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	433.37	92.35
26 27 26 00-0106 EA 60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	433.62	92.35
26 27 26 00-0107 EA 60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	433.87	92.35
26 27 26 00-0108 EA 100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	483.06	103.76
26 27 26 00-0109 EA 100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	499.70	103.76
26 27 26 00-0110 EA 100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	539.40	114.13
26 27 26 00-0111 EA 100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	538.15	114.13
26 27 26 00-0112 EA 100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	540.50	114.13
26 27 26 00-0113 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0114 EA 15/20 Amp, 125 Volt Corrosion Resistant, Power Receptacles	40.55	10.38
26 27 26 00-0115 EA 15/20 Amp, 250 Volt Corrosion Resistant, Power Receptacles	72.74	12.97
26 27 26 00-0116 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0117 EA 15 Amp, 125 Volt Duplex Tamper Resistant Receptacle	23.68	10.38
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0118 EA 20 Amp, 125 Volt Duplex Specification Grade Tamper Resistant Receptacle	25.18	10.38
Note: Pass & Seymour TR20.		
26 27 26 00-0119 EA 15 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle	29.50	10.38
Note: Pass & Seymour TR5251.		
26 27 26 00-0120 EA 20 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle	31.53	10.38
Note: Pass & Seymour TR5351.		
26 27 26 00-0121 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle	43.71	10.38
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0122 EA 15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	46.62	10.38
Note: Pass & Seymour 1595-TRS.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0123	EA	20 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	49.39	10.38
26 27 26 00-0124		USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0125	EA	15 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	44.51	10.38
26 27 26 00-0126	EA	20 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	47.48	10.38
26 27 26 00-0127		Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0128	EA	TV Receptacle With Cover (Type F) - Complete.....	56.42	24.07
26 27 26 00-0129		Switches (26 27 26)		
26 27 26 00-0130		Switches (26 27 26 00-0129)		
26 27 26 00-0131		Switch Assemblies (26 27 26 00-0130) Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0132	EA	1 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly	81.20	36.31
26 27 26 00-0133	EA	1 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly	87.63	39.43
26 27 26 00-0134	EA	2 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly	107.22	47.46
26 27 26 00-0135	EA	2 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly	118.02	52.65
26 27 26 00-0136	EA	3 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly	184.20	81.46
26 27 26 00-0137	EA	3 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly	200.38	89.23
26 27 26 00-0138	EA	4 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly	209.88	92.08
26 27 26 00-0139	EA	4 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly	231.46	102.46
26 27 26 00-0140		Switch Components (26 27 26 00-0130)		
26 27 26 00-0141	EA	15 Amp, 120/277 Volt, SPST Switch.....	23.79	10.38
26 27 26 00-0142	EA	15 Amp, 120/277 Volt, 3-Way Switch.....	29.94	12.97
26 27 26 00-0143	EA	15 Amp, 120/277 Volt, 4-Way Switch.....	53.11	20.75
26 27 26 00-0144	EA	15 Amp, 120/277 Volt, DPST Switch	25.57	10.38
26 27 26 00-0145	EA	15 Amp, 120/277 Volt, Thermal Switch.....	41.08	12.97
26 27 26 00-0146	EA	20 Amp, 120/277 Volt, SPST Switch.....	29.19	12.97
26 27 26 00-0147	EA	20 Amp, 120/277 Volt, 3-Way Switch.....	35.57	15.57
26 27 26 00-0148	EA	20 Amp, 120/277 Volt, 4-Way Switch.....	63.64	20.75
26 27 26 00-0149	EA	20 Amp, 120/277 Volt, DPST Switch	32.03	12.97
26 27 26 00-0150	EA	20 Amp, 120/277 Volt, DPDT Switch	33.29	12.97
26 27 26 00-0151	EA	15 Amp, 120/277 Volt, Single Pole, Momentary Contact Switch, Toggle, Three Position, Center Off	48.92	12.99
26 27 26 00-0152	EA	15 Amp, 120/277 Volt, Momentary Contact Switch, Key Operated, Single Pole, Three Position, Center Off	60.39	12.99
26 27 26 00-0153	EA	Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	48.24	15.59
26 27 26 00-0154	EA	20 Amp, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	42.62	18.16
26 27 26 00-0155	EA	Note: Or 250 VAC 10 Amp, double throw BAT handle. 20 Amp, 125 Volt AC, Double Pole, Maintained Contact Switch.....	50.69	20.75
26 27 26 00-0156	EA	Note: Or 250 VAC 10 Amp, with center off double throw BAT handle. 20 Amp, 125 Volt AC, Three Pole, Maintained Contact Switch.....	63.67	20.75
26 27 26 00-0157	EA	Note: Or 250 VAC 10 Amp, with center off double throw BAT handle. 30 Amp, 120/277 Volt, Single Pole Local Switch	52.07	20.77
26 27 26 00-0158	EA	30 Amp, 120/277 Volt, Double Pole Local Switch	62.37	20.77
26 27 26 00-0159	EA	30 Amp, 120/277 Volt, Three-Way Local Switch.....	66.82	25.97
26 27 26 00-0160	EA	30 Amp, 120/277 Volt, Four-Way Local Switch.....	90.41	28.57
26 27 26 00-0161	EA	15 Amp, 120/277 Volt, Local Switch With Neon Pilot.....	50.92	16.98
26 27 26 00-0162	EA	15 Amp, 120/277 Volt, Local Switch With Separate Neon Pilot	66.63	16.98
26 27 26 00-0163	EA	Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation. 15 Amp, 120 Volt, Single Pole Lighted Toggle Switch, Clear Toggle, Lighted In On Position.....	59.86	16.98
26 27 26 00-0164	EA	15 Amp, 120 Volt, Lighted Toggle Switch, Ivory Toggle, Lighted In Off Position	57.53	16.98
26 27 26 00-0165	EA	Automatic Door Switch, Door Open-Light On, 6 Amp, 125 Volt.....	55.86	8.42
26 27 26 00-0166	EA	Automatic Door Switch, Door Closed-Light On, 6 Amp, 125 Volt.....	59.02	8.42
26 27 26 00-0167	EA	15 Amp, 120/277 Volt, Single Pole Momentary Contact Switch, Three Position, Center Off, Toggle	68.35	32.42
26 27 26 00-0168	EA	Momentary Contact Switch, Three Position, Center Off, Key Operated..... Note: 15A, 120/277 V, Single Pole	79.82	32.42
26 27 26 00-0169		Specialty Switches (26 27 26 00-0129)		
26 27 26 00-0170		Dimmers With SPST Switch (26 27 26 00-0169)		
26 27 26 00-0171	EA	600 Watt Dimmers With SPST Switch	53.26	23.34
26 27 26 00-0172	EA	1,000 Watt Dimmers With SPST Switch	73.80	23.34
26 27 26 00-0173	EA	1,500 Watt Dimmers With SPST Switch	128.21	37.56
26 27 26 00-0174	EA	2,000 Watt Dimmers With SPST Switch	154.42	37.56
26 27 26 00-0175	EA	600 Watt Fluorescent Dimmer Switch.....	93.14	27.70
26 27 26 00-0176	EA	1,000 Watt Fluorescent Dimmer Switch	115.69	27.70
26 27 26 00-0177	EA	1,500 Watt Fluorescent Dimmer Switch.....	200.57	41.81
26 27 26 00-0178	EA	Remote Speed Switch For Paddle Fan.....	83.61	34.55
26 27 26 00-0179	EA	600 Watt Combination Remote Speed Switch/Incandescent Dimmer	132.16	51.57
26 27 26 00-0180		Time Switches (26 27 26 00-0169)		



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0181 EA 40 Amp, SPST, 125 Volt, Standard Time Switch.....	85.98	31.13
26 27 26 00-0182 EA 40 Amp, SPST, 277 Volt, Standard Time Switch.....	87.16	31.13
26 27 26 00-0183 EA 40 Amp, DPST, 125 Volt, Standard Time Switch.....	85.98	31.13
26 27 26 00-0184 EA 40 Amp, DPST, 277 Volt, Standard Time Switch.....	87.16	31.13
26 27 26 00-0185 EA 40 Amp, SPST, 125 Volt, 7-Day Time Switch.....	93.89	31.13
26 27 26 00-0186 EA 40 Amp, SPST, 277 Volt, 7-Day Time Switch.....	93.89	31.13
26 27 26 00-0187 EA 40 Amp, DPDT, 125 Volt, 7-Day Time Switch.....	140.55	31.13
26 27 26 00-0188 EA 40 Amp, DPDT, 277 Volt, 7-Day Time Switch.....	140.55	31.13
26 27 26 00-0189 EA 20 Amp, SPST, 125 Volt, Programmable Time Switch.....	125.58	31.13
26 27 26 00-0190 EA 20 Amp, SPST, 277 Volt, Programmable Time Switch.....	134.72	31.13
26 27 26 00-0191 EA 20 Amp, SPST, 277 Volt, Programmable Time Switch - Weatherproof.....	134.72	31.13
26 27 26 00-0192 EA 40 Amp, 4PST, 125 Volt, Astro Dial Time Switch.....	156.33	31.13
26 27 26 00-0193 EA 40 Amp, 4PST, 277 Volt, Astro Dial Time Switch.....	159.96	31.13
26 27 26 00-0194 EA 40 Amp, SPST, 125 Volt, Standard Time Switch - Weatherproof.....	85.98	31.13
26 27 26 00-0195 EA 40 Amp, SPST, 277 Volt, Standard Time Switch - Weatherproof.....	87.16	31.13
26 27 26 00-0196 EA 40 Amp, DPST, 125 Volt, Standard Time Switch - Weatherproof.....	85.98	31.13
26 27 26 00-0197 EA 40 Amp, DPST, 277 Volt, Standard Time Switch - Weatherproof.....	87.16	31.13
26 27 26 00-0198 EA 40 Amp, SPST, 125 Volt, 7-Day Time Switch - Weatherproof.....	93.89	31.13
26 27 26 00-0199 EA 40 Amp, SPST, 277 Volt, 7-Day Time Switch - Weatherproof.....	93.89	31.13
26 27 26 00-0200 EA 40 Amp, DPDT, 125 Volt, 7-Day Time Switch - Weatherproof.....	140.55	31.13
26 27 26 00-0201 EA 40 Amp, DPDT, 277 Volt, 7-Day Time Switch - Weatherproof.....	140.55	31.13
26 27 26 00-0202 EA 40 Amp, 4PST, 125 Volt, Astro Dial Time Switch - Weatherproof.....	156.33	31.13
26 27 26 00-0203 EA 40 Amp, 4PST, 277 Volt, Astro Dial Time Switch - Weatherproof.....	159.96	31.13
26 27 26 00-0204 Low Voltage Switching (26 27 26 00-0169)		
26 27 26 00-0205 EA 36 Pin Male Or Female Connector.....	97.46	10.38
26 27 26 00-0206 Other Switches (26 27 26 00-0169)		
26 27 26 00-0207 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture.....	32.60	15.57
26 27 26 00-0208 EA Locking Switch, SPST Concealed Devices.....	93.18	41.50
26 27 26 00-0209 EA Locking Switch, 3-Way Concealed Devices.....	93.85	41.50
26 27 26 00-0210 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	95.72	38.81
26 27 26 00-0211 EA 15 Amp Momentary Contact Switch.....	93.13	38.81
26 27 26 00-0212 EA 20 Amp Momentary Contact Switch.....	95.86	38.81
26 27 26 00-0213 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	101.10	46.76
26 27 26 00-0214 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	101.86	46.76
26 27 26 00-0215 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	124.92	57.15
26 27 26 00-0216 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch.....	113.57	51.95
26 27 26 00-0217 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch.....	113.76	51.95
26 27 26 00-0218 Plates And Covers (26 27 26)		
26 27 26 00-0219 Wall Plates (26 27 26 00-0218)		
26 27 26 00-0220 Nylon Wall Plates (26 27 26 00-0219)		
26 27 26 00-0221 EA 1 Gang Nylon Switch Plate.....	1.41	0.52
26 27 26 00-0222 EA 2 Gang Nylon Switch Plate.....	2.30	0.78
26 27 26 00-0223 EA 3 Gang Nylon Switch Plate.....	3.23	1.04
26 27 26 00-0224 EA 4 Gang Nylon Switch Plate.....	4.51	1.29
26 27 26 00-0225 EA 1 Gang Duplex Nylon Wall Plate.....	1.42	0.52
26 27 26 00-0226 EA 2 Gang Duplex Nylon Wall Plate.....	2.35	0.78
26 27 26 00-0227 Plastic Wall Plates (26 27 26 00-0219)		
26 27 26 00-0228 EA 1 Gang Plastic Switch Plate.....	1.34	0.52
26 27 26 00-0229 EA 2 Gang Plastic Switch Plate.....	2.15	0.78
26 27 26 00-0230 EA 3 Gang Plastic Switch Plate.....	2.99	1.04
26 27 26 00-0231 EA 4 Gang Plastic Switch Plate.....	4.51	1.29
26 27 26 00-0232 EA 1 Gang Duplex Plastic Wall Plate.....	1.34	0.52
26 27 26 00-0233 EA 2 Gang Duplex Plastic Wall Plate.....	2.16	0.78
26 27 26 00-0234 Brass Wall Plates (26 27 26 00-0219)		
26 27 26 00-0235 EA 1 Gang 0.04" Brass Switch Plate.....	11.74	2.34
26 27 26 00-0236 EA 2 Gang 0.04" Brass Switch Plate.....	20.76	2.70
26 27 26 00-0237 EA 3 Gang 0.04" Brass Switch Plate.....	29.65	3.01
26 27 26 00-0238 EA 4 Gang 0.04" Brass Switch Plate.....	45.07	3.27
26 27 26 00-0239 EA 5 Gang 0.04" Brass Switch Plate.....	54.51	3.48
26 27 26 00-0240 EA 6 Gang 0.04" Brass Switch Plate.....	62.79	3.64
26 27 26 00-0241 EA 1 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	11.74	2.34
26 27 26 00-0242 EA 2 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	23.98	2.70
26 27 26 00-0243 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	33.90	3.01
26 27 26 00-0244 Stainless Steel Wall Plates (26 27 26 00-0219)		
26 27 26 00-0245 EA 1 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	7.09	2.34
26 27 26 00-0246 EA 2 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	10.60	2.70

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0247 EA 3 Gang, 302 Stainless Steel Switch Plate With Satin Finish	14.23	3.01
26 27 26 00-0248 EA 4 Gang, 302 Stainless Steel Switch Plate With Satin Finish	20.02	3.27
26 27 26 00-0249 EA 5 Gang, 302 Stainless Steel Switch Plate With Satin Finish	23.29	3.48
26 27 26 00-0250 EA 6 Gang, 302 Stainless Steel Switch Plate With Satin Finish	27.73	3.64
26 27 26 00-0251 EA 1 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish.....	7.60	2.34
26 27 26 00-0252 EA 2 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish.....	11.81	2.70
26 27 26 00-0253 EA 3 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish.....	18.22	3.01
26 27 26 00-0254 EA 4 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish.....	21.75	3.27
26 27 26 00-0255 Chrome Wall Plates (26 27 26 00-0219)		
26 27 26 00-0256 EA 1 Gang 0.040" Chrome Switch Plate With Chromium Finish	21.75	2.34
26 27 26 00-0257 EA 2 Gang 0.040" Chrome Switch Plate With Chromium Finish	39.51	2.70
26 27 26 00-0258 EA 3 Gang 0.040" Chrome Switch Plate With Chromium Finish	57.19	3.01
26 27 26 00-0259 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate With Chromium Finish.....	21.73	2.34
26 27 26 00-0260 Weatherproof Covers (26 27 26 00-0218)		
26 27 26 00-0261 Stamped Metallic Weatherproof Covers (26 27 26 00-0260)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0262 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	8.40	0.52
26 27 26 00-0263 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	9.08	0.52
26 27 26 00-0264 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	9.08	0.52
26 27 26 00-0265 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	9.08	0.52
26 27 26 00-0266 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	11.19	0.78
26 27 26 00-0267 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	12.66	0.78
26 27 26 00-0268 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	12.81	0.78
26 27 26 00-0269 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	12.81	0.78
26 27 26 00-0270 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	17.29	0.78
26 27 26 00-0271 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	16.52	1.04
26 27 26 00-0272 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	18.02	1.04
26 27 26 00-0273 Cast Metallic Weatherproof Covers (26 27 26 00-0260)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0274 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	10.23	0.52
26 27 26 00-0275 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	32.17	0.52
26 27 26 00-0276 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	36.05	0.52
26 27 26 00-0277 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	10.16	0.52
26 27 26 00-0278 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	27.31	0.52
26 27 26 00-0279 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	45.27	0.52
26 27 26 00-0280 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	57.58	0.52
26 27 26 00-0281 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	12.81	0.78
26 27 26 00-0282 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	90.92	0.78
26 27 26 00-0283 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	21.34	1.04
26 27 26 00-0284 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	87.00	1.04
26 27 26 00-0285 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0260)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	3.73	0.52
26 27 26 00-0287 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	4.72	0.52
26 27 26 00-0288 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	6.36	0.78
26 27 26 00-0289 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	6.87	0.78
26 27 26 00-0290 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	6.87	0.78
26 27 26 00-0291 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	7.61	0.78
26 27 26 00-0292 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0260)		
Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0293 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	35.79	0.52
26 27 26 00-0294 Polycarbonate Weatherproof Covers (26 27 26 00-0260)		
Note: Includes neoprene gasket.		
26 27 26 00-0295 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	7.41	0.52
26 27 26 00-0296 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	7.41	0.52
26 27 26 00-0297 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	7.41	0.52
26 27 26 00-0298 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	9.22	0.78
26 27 26 00-0299 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	9.22	0.78
26 27 26 00-0300 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0260)		
Note: Includes neoprene gasket.		
26 27 26 00-0301 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	46.48	0.52



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 27 26 00-0302 Non Metallic (PVC) Weatherproof Covers (26 27 26 00-0260)				
Note: Includes neoprene gasket.				
26 27 26 00-0303	EA	Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	8.31	0.52
26 27 26 00-0304	EA	Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	9.03	0.78
26 27 26 00-0305	EA	Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	8.33	0.52
26 27 26 00-0306	EA	Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	18.02	0.52
26 27 26 00-0307	EA	Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	20.84	0.52
26 27 26 00-0308	EA	20 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	16.95	0.52
26 27 26 00-0309	EA	30 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	12.70	0.52
26 27 26 00-0310	EA	50 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	14.82	0.52
26 27 26 00-0311	EA	Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	13.28	0.52
26 27 26 00-0312	EA	Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	19.13	0.78
26 27 26 00-0313 Removal And Reinstallation Of Wiring Devices (26 27 26)				
Note: Includes storage and cleaning.				
26 27 26 00-0314	EA	Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	68.26	
26 27 26 00-0315	EA	Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	8.65	
26 27 26 00-0316 Relay Systems (26 27 26)				
26 27 26 00-0317	EA	Relay 2 Position, 10 Amp, 24 Volt Coil	68.23	23.34
26 27 26 00-0318	EA	Industrial Control Relay 20 Amp, 120 Volt Coil Up To 4 Contacts	266.10	77.82
26 27 26 00-0319	EA	Industrial Control Relay 20 Amp, 120 Volt Coil 12 Contacts	428.63	103.76
26 27 26 00-0320 Limit Switches (26 27 26)				
26 27 26 00-0321 Heavy Duty Precision Oiltight (26 27 26 00-0320)				
26 27 26 00-0322 Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0321)				
26 27 26 00-0323	EA	Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amp Rated	295.15	65.37
26 27 26 00-0324 In Line Midget Fuseholders (26 27 26)				
See CSI section 26 28 13 00-0078 for fuses.				
26 27 26 00-0325	EA	Single Pole Water Resistant In Line Midget Fuseholder	62.20	
26 27 26 00-0326	EA	Double Pole Water Resistant In Line Midget Fuseholder	122.72	
26 27 73 Door Chimes (26 27)				
26 27 73 00-0001 Door Chimes (26 27 73)				
26 27 73 00-0002	EA	Door Bell, Push-button And Transformer - Complete	496.43	216.13
26 27 73 00-0003	EA	Visual Flashing Doorbell Indicator, Wire To Existing System - Complete	163.94	51.88
26 27 73 00-0004	EA	Replacement Bell/Buzzer - Complete	71.65	25.94
Note: Includes removal of existing.				
26 28 Low-Voltage Circuit Protective Devices (26 20)				
26 28 13 Fuses (26 28)				
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)				
26 28 13 00-0002	EA	1 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	20.77	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0003	EA	2 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	20.44	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0004	EA	3 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.98	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0005	EA	5 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.92	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0006	EA	6 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	20.34	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0007	EA	8 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.52	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0008	EA	10 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	19.32	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0009	EA	15 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.72	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0010	EA	20 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.47	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0011	EA	25 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.94	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0012	EA	30 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	17.61	7.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)				



MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
26	28	13	00-0014	250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26		
				28 13 00-0013)		
26	28	13	00-0015	EA 1 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	28.67	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0016	EA 2 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	27.22	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0017	EA 3 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	28.23	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0018	EA 4 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	28.10	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0019	EA 5 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	27.09	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0020	EA 10 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	26.48	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0021	EA 15 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.87	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0022	EA 20 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.75	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0023	EA 25 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.88	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0024	EA 30 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	24.72	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0025	EA 35 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.56	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0026	EA 40 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.08	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0027	EA 45 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.44	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0028	EA 50 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	31.14	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0029	EA 60 Amp, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	30.70	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0030	250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28		
				13 00-0013)		
26	28	13	00-0031	EA 70 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	53.03	9.34
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26	28	13	00-0032	EA 80 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	52.79	9.34
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26	28	13	00-0033	EA 90 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	57.71	9.34
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26	28	13	00-0034	EA 100 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	52.41	9.34
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26	28	13	00-0035	EA 110 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	133.34	9.34
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26	28	13	00-0036	EA 125 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	99.83	9.34
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26	28	13	00-0037	EA 150 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	93.26	10.27
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.85	
26	28	13	00-0038	EA 200 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	97.73	10.27
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.85	
26	28	13	00-0039	EA 250 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	174.83	10.27
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.85	
26	28	13	00-0040	EA 300 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	189.53	12.66
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.40	
26	28	13	00-0041	EA 350 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	202.88	12.66
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.40	
26	28	13	00-0042	EA 400 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	159.08	12.66
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.40	
26	28	13	00-0043	EA 450 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	339.79	12.66
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.40	
26	28	13	00-0044	EA 500 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	324.82	15.46
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.27	
26	28	13	00-0045	EA 600 Amp, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	256.52	15.46
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.27	
26	28	13	00-0046	600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26		
				28 13 00-0013)		
26	28	13	00-0047	EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.65	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0048	EA 2 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	38.33	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0049	EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.39	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0050	EA 4 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.03	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0051	EA 5 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.48	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0052	EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.68	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26	28	13	00-0053	EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	34.56	7.47
				For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0054 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.35 4.98	7.47
26 28 13 00-0055 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.07 4.98	7.47
26 28 13 00-0056 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.48 4.98	7.47
26 28 13 00-0057 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.04 4.98	7.47
26 28 13 00-0058 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.14 4.98	7.47
26 28 13 00-0059 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.35 4.98	7.47
26 28 13 00-0060 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.72 4.98	7.47
26 28 13 00-0061 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.05 4.98	7.47
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^{(26 28}		
^{13 00-0013)}		
26 28 13 00-0063 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.03 6.23	9.34
26 28 13 00-0064 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.74 6.85	10.27
26 28 13 00-0065 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.32 6.85	10.27
26 28 13 00-0066 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.65 6.85	10.27
26 28 13 00-0067 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.99 6.85	10.27
26 28 13 00-0068 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.12 6.85	10.27
26 28 13 00-0069 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.42 8.40	12.66
26 28 13 00-0070 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.07 8.40	12.66
26 28 13 00-0071 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	281.29 8.40	12.66
26 28 13 00-0072 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	285.53 10.27	15.46
26 28 13 00-0073 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.17 10.27	15.46
26 28 13 00-0074 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	291.42 10.27	15.46
26 28 13 00-0075 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	512.10 10.27	15.46
26 28 13 00-0076 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	460.77 12.45	18.67
26 28 13 00-0077 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	404.09 12.45	18.67
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses ^(26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.98 4.98	7.47
26 28 13 00-0080 EA 2 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.37 4.98	7.47
26 28 13 00-0081 EA 3 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.26 4.98	7.47
26 28 13 00-0082 EA 5 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.14 4.98	7.47
26 28 13 00-0083 EA 6 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.95 4.98	7.47
26 28 13 00-0084 EA 8 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.04 4.98	7.47
26 28 13 00-0085 EA 10 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.46 4.98	7.47
26 28 13 00-0086 EA 15 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.15 4.98	7.47
26 28 13 00-0087 EA 20 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.67 4.98	7.47
26 28 13 00-0088 EA 25 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.58 4.98	7.47
26 28 13 00-0089 EA 30 Amp, 600 Volt AC, Class CC Midget Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.51 4.98	7.47
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse ⁽²⁶		
^{28 13)}		
26 28 13 00-0091 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.77 3.11	5.19
26 28 13 00-0092 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.02 3.11	5.19

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0093 EA 6 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	33.34	6.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 28 13 00-0094 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	34.44	7.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 28 13 00-0095 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	35.04	7.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 28 13 00-0096 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	34.50	7.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 28 13 00-0097 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.32	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0098 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	38.27	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0099 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	60.86	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0100 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	53.08	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0101 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	59.67	10.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0102 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	55.91	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 28 13 00-0103 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	55.07	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 28 13 00-0104 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	81.93	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 28 13 00-0105 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	86.55	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 28 13 00-0106 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	85.37	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 28 13 00-0107 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	78.30	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0108 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	164.47	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0109 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	141.88	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0110 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	137.96	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0111 EA 175 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	139.75	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0112 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	118.75	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0113 EA 225 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	275.84	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0114 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	256.23	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0115 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	237.37	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0116 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	257.44	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0117 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	217.35	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0118 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	441.37	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0119 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	379.36	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0120 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	287.33	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses ^(26 28 13)		
26 28 13 00-0122 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	819.92	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 28 13 00-0123 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	821.52	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 28 13 00-0124 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	823.01	12.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.78	
26 28 13 00-0125 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	822.48	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 28 13 00-0126 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	758.47	15.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.34	
26 28 13 00-0127 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	812.77	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0128 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	749.23	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0129 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	836.25	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0130 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	820.21	18.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.89	
26 28 13 00-0131 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	733.24	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0132 EA 601 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	752.52	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0133 EA 650 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	994.92	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0134 EA 700 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	729.74	20.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 28 13 00-0135 EA 750 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,113.63	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0136 EA 800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	649.51	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0137 EA 900 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	939.71	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0138 EA 1,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	638.91	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0139 EA 1,200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	657.35	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0140 EA 1,350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,437.99	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0141 EA 1,400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,418.06	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0142 EA 1,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,281.28	23.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.01	
26 28 13 00-0143 EA 1,600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	809.81	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0144 EA 1,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,692.45	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0145 EA 2,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,091.15	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0146 EA 2,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,467.57	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0147 EA 2,501 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,485.09	25.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 28 13 00-0148 EA 3,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,635.72	28.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 28 13 00-0149 EA 3,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,357.57	28.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 28 13 00-0150 EA 3,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,892.18	28.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 28 13 00-0151 EA 4,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,260.52	28.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 28 13 00-0152 EA 5,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,553.86	28.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 28 13 00-0153 EA 6,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	5,867.66	28.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.12	
26 28 16 Enclosed Switches And Circuit Breakers (26 28)		
26 28 16 00-0001 Motor And Circuit Disconnects (26 28 16)		
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 00-0002 NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0003 Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002)		
Note: Includes fuses and neutral bar.		
26 28 16 00-0004 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0005 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	332.19	103.76
26 28 16 00-0006 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	499.40	125.03
26 28 16 00-0007 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	671.10	146.30
26 28 16 00-0008 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,143.35	230.34
26 28 16 00-0009 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,352.39	357.97
26 28 16 00-0010 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,887.44	529.18
26 28 16 00-0011 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,244.10	622.55
26 28 16 00-0012 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,975.61	726.32
26 28 16 00-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0014 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	480.16	115.28
26 28 16 00-0015 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	579.19	138.94
26 28 16 00-0016 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	886.22	162.38
26 28 16 00-0017 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,320.05	256.29

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0018 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,784.12	397.60
26 28 16 00-0019 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,320.72	587.69
26 28 16 00-0020 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,283.47	691.35
26 28 16 00-0021 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,502.60	807.04
26 28 16 00-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0023 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	481.84	162.90
26 28 16 00-0024 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	695.57	216.34
26 28 16 00-0025 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	906.21	240.20
26 28 16 00-0026 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,431.10	376.12
26 28 16 00-0027 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,875.23	617.36
26 28 16 00-0028 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,593.08	864.84
26 28 16 00-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0030 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	609.86	180.02
26 28 16 00-0031 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	781.83	240.20
26 28 16 00-0032 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,101.99	270.29
26 28 16 00-0033 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,630.88	411.93
26 28 16 00-0034 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,481.80	665.10
26 28 16 00-0035 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,537.45	960.81
26 28 16 00-0036 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,580.21	1,141.35
26 28 16 00-0037 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,870.91	1,296.99
26 28 16 00-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0039 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	469.87	162.90
26 28 16 00-0040 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	680.10	216.34
26 28 16 00-0041 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	878.05	240.20
26 28 16 00-0042 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,469.82	376.12
26 28 16 00-0043 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,093.43	617.36
26 28 16 00-0044 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,921.34	864.84
26 28 16 00-0045 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,941.01	1,089.47
26 28 16 00-0046 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,734.45	1,245.11
26 28 16 00-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)		
26 28 16 00-0048 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	653.79	180.02
26 28 16 00-0049 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	835.82	240.20
26 28 16 00-0050 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,180.93	270.29
26 28 16 00-0051 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,749.05	411.93
26 28 16 00-0052 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,733.94	665.10
26 28 16 00-0053 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,982.75	960.81
26 28 16 00-0054 EA 800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,319.52	1,141.35



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0055 EA 1,200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,669.52	1,296.99
26 28 16 00-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches		
(26 28 16 00-0002)		
26 28 16 00-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches		
(26 28 16 00-0056)		
26 28 16 00-0058 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	324.62	150.14
26 28 16 00-0059 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	494.17	208.86
26 28 16 00-0060 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	661.27	240.20
26 28 16 00-0061 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,039.02	384.33
26 28 16 00-0062 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,040.16	640.50
26 28 16 00-0063 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,263.44	873.44
26 28 16 00-0064 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,577.03	1,037.59
26 28 16 00-0065 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,977.89	1,210.97
26 28 16 00-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches		
(26 28 16 00-0056)		
26 28 16 00-0067 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	358.49	165.71
26 28 16 00-0068 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	558.62	234.39
26 28 16 00-0069 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	745.50	266.87
26 28 16 00-0070 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,158.27	417.74
26 28 16 00-0071 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,194.63	686.27
26 28 16 00-0072 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,608.71	960.71
26 28 16 00-0073 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,028.96	1,037.59
26 28 16 00-0074 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,596.80	1,210.97
26 28 16 00-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches		
(26 28 16 00-0056)		
26 28 16 00-0076 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	387.30	134.89
26 28 16 00-0077 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	581.37	187.81
26 28 16 00-0078 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	761.55	216.34
26 28 16 00-0079 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,200.28	346.04
26 28 16 00-0080 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,332.58	576.38
26 28 16 00-0081 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,673.23	785.97
26 28 16 00-0082 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,066.41	933.83
26 28 16 00-0083 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,828.08	1,089.47
26 28 16 00-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches		
(26 28 16 00-0056)		
26 28 16 00-0085 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	423.58	148.90
26 28 16 00-0086 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	641.87	211.15
26 28 16 00-0087 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	833.11	240.20
26 28 16 00-0088 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,296.75	376.12
26 28 16 00-0089 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,499.19	617.36
26 28 16 00-0090 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,980.52	864.84
26 28 16 00-0091 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,364.97	933.83

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0093	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	445.87	149.11
26 28 16 00-0094	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	679.89	210.95
26 28 16 00-0095	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	894.93	240.20
26 28 16 00-0096	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,391.98	375.92
26 28 16 00-0097	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,632.41	617.57
26 28 16 00-0098	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,374.78	864.63
26 28 16 00-0099	EA	800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,815.49	933.83
26 28 16 00-0100	EA	1,200 Amp, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,836.47	1,089.47
26 28 16 00-0101		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0102	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	601.43	135.09
26 28 16 00-0103	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	741.96	188.02
26 28 16 00-0104	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,092.78	216.13
26 28 16 00-0105	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,653.29	345.83
26 28 16 00-0106		480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0107	EA	30 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	653.06	148.90
26 28 16 00-0108	EA	60 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	813.96	211.15
26 28 16 00-0109	EA	100 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,188.00	240.20
26 28 16 00-0110	EA	200 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,782.13	376.12
26 28 16 00-0111		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0056)		
26 28 16 00-0112	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	715.11	149.11
26 28 16 00-0113	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	882.40	210.95
26 28 16 00-0114	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,311.08	240.20
26 28 16 00-0115	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,961.42	375.92
26 28 16 00-0116		General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002) Note: Includes fuses and neutral bar.		
26 28 16 00-0117		240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0116)		
26 28 16 00-0118	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	241.84	90.27
26 28 16 00-0119	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	320.74	108.63
26 28 16 00-0120	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	468.44	127.00
26 28 16 00-0121	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	845.52	200.36
26 28 16 00-0122	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,908.05	310.76
26 28 16 00-0123	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,493.03	459.96
26 28 16 00-0124		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0116)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0125 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	344.86	141.84
26 28 16 00-0126 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	479.18	188.02
26 28 16 00-0127 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	632.15	208.86
26 28 16 00-0128 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,099.42	326.94
26 28 16 00-0129 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,362.28	537.06
26 28 16 00-0130 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,080.10	751.83
26 28 16 00-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0116)		
26 28 16 00-0132 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	373.81	141.84
26 28 16 00-0133 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	525.86	188.02
26 28 16 00-0134 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	674.62	208.86
26 28 16 00-0135 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,206.43	326.94
26 28 16 00-0136 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,545.19	537.06
26 28 16 00-0137 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,196.04	751.83
26 28 16 00-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002)		
26 28 16 00-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0138)		
26 28 16 00-0140 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	331.83	125.54
26 28 16 00-0141 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	427.57	144.33
26 28 16 00-0142 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	906.41	230.65
26 28 16 00-0143 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,875.19	383.91
26 28 16 00-0144 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,158.30	523.16
26 28 16 00-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0138)		
26 28 16 00-0146 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	312.80	117.46
26 28 16 00-0147 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	430.14	163.42
26 28 16 00-0148 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	616.58	188.02
26 28 16 00-0149 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,047.11	300.80
26 28 16 00-0150 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,110.58	501.37
26 28 16 00-0151 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,480.01	683.36
26 28 16 00-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0153)		
26 28 16 00-0155 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	468.93	121.92
26 28 16 00-0156 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	716.36	146.30
26 28 16 00-0157 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	887.44	170.16
26 28 16 00-0158 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,305.42	259.39
26 28 16 00-0159 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,786.20	415.03

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0160 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,775.06	553.56
26 28 16 00-0161 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,030.38	622.55
26 28 16 00-0162 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,254.48	726.32
26 28 16 00-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 00-0153)		
26 28 16 00-0164 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	777.64	162.49
26 28 16 00-0165 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	929.55	199.22
26 28 16 00-0166 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,285.76	228.79
26 28 16 00-0167 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,824.51	343.13
26 28 16 00-0168 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,855.27	561.44
26 28 16 00-0169 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,927.78	772.07
26 28 16 00-0170 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,032.58	889.01
26 28 16 00-0171 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,065.24	1,000.76
26 28 16 00-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 00-0153)		
26 28 16 00-0173 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	620.97	191.95
26 28 16 00-0174 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	954.15	254.21
26 28 16 00-0175 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,132.85	279.11
26 28 16 00-0176 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,691.41	432.15
26 28 16 00-0177 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,524.54	720.61
26 28 16 00-0178 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,729.36	960.81
26 28 16 00-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 00-0153)		
26 28 16 00-0180 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	909.07	227.55
26 28 16 00-0181 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,089.27	278.91
26 28 16 00-0182 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,425.28	320.20
26 28 16 00-0183 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,079.88	480.41
26 28 16 00-0184 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,239.76	786.08
26 28 16 00-0185 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,447.65	1,080.86
26 28 16 00-0186 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,365.50	1,245.11
26 28 16 00-0187 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,352.44	1,400.74
26 28 16 00-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 00-0153)		
26 28 16 00-0189 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	670.07	191.95
26 28 16 00-0190 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	955.57	254.21
26 28 16 00-0191 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,201.88	279.11
26 28 16 00-0192 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,737.45	432.15
26 28 16 00-0193 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,566.77	720.61
26 28 16 00-0194 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,193.91	960.81



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0195	EA	800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,018.51	1,089.47
26 28 16 00-0196	EA	1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,418.24	1,245.11
26 28 16 00-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0153)		
26 28 16 00-0198	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	937.23	227.75
26 28 16 00-0199	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,120.94	279.11
26 28 16 00-0200	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,495.67	320.09
26 28 16 00-0201	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,125.63	480.41
26 28 16 00-0202	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,405.16	785.97
26 28 16 00-0203	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,637.69	1,080.65
26 28 16 00-0204	EA	800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,963.92	1,245.11
26 28 16 00-0205	EA	1,200 Amp, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,141.24	1,400.74
26 28 16 00-0206		Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152)		
26 28 16 00-0207		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0208	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	439.61	106.77
26 28 16 00-0209	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	701.45	147.85
26 28 16 00-0210	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	906.98	169.54
26 28 16 00-0211	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,236.94	274.55
26 28 16 00-0212	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,659.40	457.99
26 28 16 00-0213	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,711.09	610.62
26 28 16 00-0214	EA	800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,421.56	726.63
26 28 16 00-0215	EA	1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,717.91	830.38
26 28 16 00-0216		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0217	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	493.39	117.66
26 28 16 00-0218	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	793.20	164.66
26 28 16 00-0219	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,020.73	185.93
26 28 16 00-0220	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,362.68	288.25
26 28 16 00-0221	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,993.85	480.41
26 28 16 00-0222	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,074.81	640.50
26 28 16 00-0223	EA	800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,906.39	761.18
26 28 16 00-0224	EA	1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,347.50	864.63
26 28 16 00-0225		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0226	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	546.36	160.10
26 28 16 00-0227	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	849.25	221.74
26 28 16 00-0228	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,076.51	254.31
26 28 16 00-0229	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,511.43	411.82
26 28 16 00-0230	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,152.72	686.89

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0231 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,390.96	915.68
26 28 16 00-0232 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,225.50	1,089.47
26 28 16 00-0233 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,768.53	1,245.11
26 28 16 00-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0235 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	595.20	176.40
26 28 16 00-0236 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	928.92	247.05
26 28 16 00-0237 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,166.30	278.91
26 28 16 00-0238 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,601.75	432.36
26 28 16 00-0239 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,346.95	720.51
26 28 16 00-0240 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,734.74	960.71
26 28 16 00-0241 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,760.95	1,141.35
26 28 16 00-0242 EA 1,200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,461.90	1,296.99
26 28 16 00-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0206)		
26 28 16 00-0244 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	371.24	176.40
26 28 16 00-0245 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	957.89	247.05
26 28 16 00-0246 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,206.69	278.91
26 28 16 00-0247 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,650.90	432.36
26 28 16 00-0248 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,474.22	720.51
26 28 16 00-0249 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,715.29	960.71
26 28 16 00-0250 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,750.05	1,141.35
26 28 16 00-0251 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	11,447.07	1,296.99
26 28 16 00-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0152)		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0252)		
26 28 16 00-0254 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	306.27	106.04
26 28 16 00-0255 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	418.27	127.21
26 28 16 00-0256 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	538.28	147.96
26 28 16 00-0257 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,055.69	225.57
26 28 16 00-0258 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,464.75	360.88
26 28 16 00-0259 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,270.70	481.44
26 28 16 00-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 00-0252)		
26 28 16 00-0261 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	428.79	167.16
26 28 16 00-0262 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	606.28	221.12
26 28 16 00-0263 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	727.08	242.59
26 28 16 00-0264 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,357.04	375.92
26 28 16 00-0265 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,997.15	626.50



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0266	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,985.29	835.67
26 28 16 00-0267		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0252)		
26 28 16 00-0268	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	469.34	167.05
26 28 16 00-0269	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	647.11	221.12
26 28 16 00-0270	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	858.18	242.59
26 28 16 00-0271	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,441.65	375.92
26 28 16 00-0272	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,051.51	626.60
26 28 16 00-0273	EA	600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,408.89	835.67
26 28 16 00-0274	EA	800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,576.82	946.70
26 28 16 00-0275		General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0152)		
26 28 16 00-0276		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0275)		
26 28 16 00-0277	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	274.60	92.87
26 28 16 00-0278	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	434.97	128.56
26 28 16 00-0279	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	464.82	147.44
26 28 16 00-0280	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,082.27	238.65
26 28 16 00-0281	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,539.66	398.23
26 28 16 00-0282	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,371.58	530.94
26 28 16 00-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 00-0275)		
26 28 16 00-0284	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	426.04	139.25
26 28 16 00-0285	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	608.60	192.78
26 28 16 00-0286	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	853.32	221.12
26 28 16 00-0287	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,453.57	358.07
26 28 16 00-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0001)		
26 28 16 00-0289		Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0288)		
		Note: With fuses and neutral bar (stainless steel).		
26 28 16 00-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0289)		
26 28 16 00-0291	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,109.65	103.76
26 28 16 00-0292	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,333.19	125.03
26 28 16 00-0293	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,652.82	146.09
26 28 16 00-0294	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	3,686.68	230.55
26 28 16 00-0295	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	7,426.61	357.76
26 28 16 00-0296	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	10,684.21	528.97
26 28 16 00-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 00-0289)		
26 28 16 00-0298	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,398.07	115.28
26 28 16 00-0299	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,561.29	138.83

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0300 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,870.88	162.28
26 28 16 00-0301 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,073.97	256.29
26 28 16 00-0302 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,728.78	397.81
26 28 16 00-0303 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,092.56	587.69
26 28 16 00-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0305 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,275.60	163.11
26 28 16 00-0306 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,606.02	216.13
26 28 16 00-0307 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,957.74	240.20
26 28 16 00-0308 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,225.76	375.92
26 28 16 00-0309 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,168.31	617.57
26 28 16 00-0310 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,646.54	864.63
26 28 16 00-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0312 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,531.41	180.12
26 28 16 00-0313 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,767.93	240.20
26 28 16 00-0314 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,094.59	270.19
26 28 16 00-0315 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,395.90	411.72
26 28 16 00-0316 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,452.58	665.10
26 28 16 00-0317 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,036.46	960.71
26 28 16 00-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0319 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,505.15	163.11
26 28 16 00-0320 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,892.99	216.13
26 28 16 00-0321 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,531.95	240.20
26 28 16 00-0322 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,010.97	375.92
26 28 16 00-0323 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,713.70	617.57
26 28 16 00-0324 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,770.28	864.63
26 28 16 00-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0326 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,802.66	180.12
26 28 16 00-0327 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,075.51	240.20
26 28 16 00-0328 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,680.71	270.19
26 28 16 00-0329 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,187.67	411.72
26 28 16 00-0330 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,018.82	665.10
26 28 16 00-0331 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,189.15	960.71
26 28 16 00-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0289)		
26 28 16 00-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0334 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,067.29	103.76



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0335	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,310.31	144.33
26 28 16 00-0336	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,400.91	166.02
26 28 16 00-0337	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,352.81	265.20
26 28 16 00-0338	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,078.37	441.60
26 28 16 00-0339	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,686.51	601.60
26 28 16 00-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0341	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,211.58	114.44
26 28 16 00-0342	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,491.14	161.86
26 28 16 00-0343	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,733.34	184.48
26 28 16 00-0344	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,802.10	288.25
26 28 16 00-0345	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,886.12	474.39
26 28 16 00-0346	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,880.62	664.06
26 28 16 00-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0348	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,129.97	135.09
26 28 16 00-0349	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,381.26	188.02
26 28 16 00-0350	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,453.90	216.13
26 28 16 00-0351	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,760.59	345.83
26 28 16 00-0352	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,975.22	576.48
26 28 16 00-0353	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,301.90	786.08
26 28 16 00-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0355	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,280.75	149.11
26 28 16 00-0356	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,589.28	210.95
26 28 16 00-0357	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,844.78	240.20
26 28 16 00-0358	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,977.40	375.92
26 28 16 00-0359	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,858.83	617.57
26 28 16 00-0360	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,563.36	864.63
26 28 16 00-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0362	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,522.41	135.09
26 28 16 00-0363	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,841.56	188.02
26 28 16 00-0364	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,015.95	216.13
26 28 16 00-0365	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,136.28	345.83
26 28 16 00-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0332)		
26 28 16 00-0367	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,729.25	149.11
26 28 16 00-0368	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,096.78	210.95

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0369 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,575.94	240.20
26 28 16 00-0370 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,974.22	375.92
26 28 16 00-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0288)		
26 28 16 00-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0371)		
26 28 16 00-0373 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,015.20	180.02
26 28 16 00-0374 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,318.67	240.20
26 28 16 00-0375 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,067.69	270.29
26 28 16 00-0376 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,331.80	411.93
26 28 16 00-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0371)		
26 28 16 00-0378 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,874.95	148.90
26 28 16 00-0379 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,174.20	211.15
26 28 16 00-0380 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,835.88	240.20
26 28 16 00-0381 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,244.71	376.12
26 28 16 00-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0288)		
26 28 16 00-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0382)		
26 28 16 00-0384 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,288.32	180.02
26 28 16 00-0385 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,624.28	240.20
26 28 16 00-0386 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,645.64	270.29
26 28 16 00-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0382)		
26 28 16 00-0388 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,133.36	148.90
26 28 16 00-0389 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,463.56	211.15
26 28 16 00-0390 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,390.62	240.20
26 28 16 00-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 00-0001)		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 00-0392 Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 00-0391)		
Note: With fuses and neutral bar.		
26 28 16 00-0393 EA 30 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,850.09	207.52
26 28 16 00-0394 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,929.15	247.05
26 28 16 00-0395 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,328.59	278.91
26 28 16 00-0396 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,842.54	432.36
26 28 16 00-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0391)		
26 28 16 00-0398 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,490.15	247.05
26 28 16 00-0399 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	1,737.60	278.91
26 28 16 00-0400 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,144.61	432.36
26 28 16 00-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)		
26 28 16 00-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0401)		
Note: With fuses and neutral bar.		
26 28 16 00-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0404 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	445.78	103.76
26 28 16 00-0405 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	575.64	125.03
26 28 16 00-0406 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	770.37	146.30
26 28 16 00-0407 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,289.50	230.34
26 28 16 00-0408 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,668.80	357.97
26 28 16 00-0409 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,746.14	529.18
26 28 16 00-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0411 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	670.49	115.18
26 28 16 00-0412 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	703.69	139.04
26 28 16 00-0413 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	990.31	162.38
26 28 16 00-0414 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,550.84	256.29
26 28 16 00-0415 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,283.86	397.40
26 28 16 00-0416 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,372.32	587.79
26 28 16 00-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0418 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	631.24	162.90
26 28 16 00-0419 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	868.35	216.34
26 28 16 00-0420 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,151.46	240.20
26 28 16 00-0421 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,723.16	376.12
26 28 16 00-0422 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,308.10	617.36
26 28 16 00-0423 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,232.48	864.84
26 28 16 00-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0425 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	817.79	180.02
26 28 16 00-0426 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	948.44	240.20
26 28 16 00-0427 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,346.34	270.29
26 28 16 00-0428 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,970.78	411.93
26 28 16 00-0429 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,008.45	665.10
26 28 16 00-0430 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,362.33	960.81
26 28 16 00-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		
26 28 16 00-0432 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	667.66	162.90
26 28 16 00-0433 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	893.37	216.34
26 28 16 00-0434 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,229.99	240.20
26 28 16 00-0435 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,821.75	376.12
26 28 16 00-0436 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,572.06	617.36
26 28 16 00-0437 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,410.80	864.84
26 28 16 00-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0402)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0439	EA	30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	860.01	180.02
26 28 16 00-0440	EA	60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,061.06	240.20
26 28 16 00-0441	EA	100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,423.77	270.29
26 28 16 00-0442	EA	200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,118.59	411.93
26 28 16 00-0443	EA	400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,247.76	665.10
26 28 16 00-0444	EA	600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,559.40	960.81
26 28 16 00-0445		Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0401)		
26 28 16 00-0446		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0447	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	463.50	149.93
26 28 16 00-0448	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	618.80	209.07
26 28 16 00-0449	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	804.98	240.20
26 28 16 00-0450	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,165.45	384.43
26 28 16 00-0451	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,476.62	640.72
26 28 16 00-0452	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,862.14	873.65
26 28 16 00-0453		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0454	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	515.93	165.50
26 28 16 00-0455	EA	60 Amp, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase.....	688.58	234.50
26 28 16 00-0456	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	896.83	266.66
26 28 16 00-0457	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,266.35	417.63
26 28 16 00-0458	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,626.52	686.37
26 28 16 00-0459	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,266.83	960.81
26 28 16 00-0460		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0461	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	597.81	134.89
26 28 16 00-0462	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	792.61	187.81
26 28 16 00-0463	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,035.07	216.34
26 28 16 00-0464	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,499.63	346.04
26 28 16 00-0465	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,068.46	576.38
26 28 16 00-0466	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,768.72	785.97
26 28 16 00-0467		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0468	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	595.20	148.90
26 28 16 00-0469	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	861.70	211.15
26 28 16 00-0470	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,113.85	240.20
26 28 16 00-0471	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,501.49	376.12
26 28 16 00-0472	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,103.99	617.36
26 28 16 00-0473	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,635.77	864.84
26 28 16 00-0474		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		



	Electrical	26	
	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0475 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	701.99	134.89
26 28 16 00-0476 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	851.86	187.81
26 28 16 00-0477 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,277.80	216.34
26 28 16 00-0478 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,028.09	346.04
26 28 16 00-0479 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,558.67	440.98
26 28 16 00-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0445)		
26 28 16 00-0481 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	734.56	148.90
26 28 16 00-0482 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	932.09	211.15
26 28 16 00-0483 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,370.76	240.20
26 28 16 00-0484 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,096.24	376.12
26 28 16 00-0485 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,852.36	581.05
26 28 16 00-0486 Double Throw Safety Switches (26 28 16 00-0001)		
26 28 16 00-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0486)		
26 28 16 00-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0489 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	561.54	133.33
26 28 16 00-0490 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	815.44	174.31
26 28 16 00-0491 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,133.48	227.75
26 28 16 00-0492 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,506.85	296.23
26 28 16 00-0493 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,424.68	370.42
26 28 16 00-0494 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,181.17	594.02
26 28 16 00-0495 EA 800 Amp, Double Throw Safety Switch, 240 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	7,182.26	830.07
26 28 16 00-0496 EA 1,000 Amp, Double Throw Safety Switch, 240 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	10,406.69	933.83
26 28 16 00-0497 EA 1,200 Amp, Double Throw Safety Switch, 240 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	12,223.54	1,037.59
26 28 16 00-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0499 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	719.93	186.76
26 28 16 00-0500 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	994.55	243.84
26 28 16 00-0501 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,467.27	319.06
26 28 16 00-0502 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,121.68	415.03
26 28 16 00-0503 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,724.19	518.80
26 28 16 00-0504 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,658.22	830.07
26 28 16 00-0505 EA 800 Amp, Double Throw Safety Switch, 240 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	7,770.06	933.83
26 28 16 00-0506 EA 1,000 Amp, Double Throw Safety Switch, 240 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	10,930.15	1,037.59
26 28 16 00-0507 EA 1,200 Amp, Double Throw Safety Switch, 240 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	12,904.22	1,141.35
26 28 16 00-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0509 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	947.52	233.46
26 28 16 00-0510 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,357.10	305.06
26 28 16 00-0511 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,320.71	398.43
26 28 16 00-0512 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,161.96	517.76
26 28 16 00-0513 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,129.61	648.50
26 28 16 00-0514 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,889.55	1,039.15
26 28 16 00-0515 EA 800 Amp, Double Throw Safety Switch, 240 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	9,878.38	1,141.35
26 28 16 00-0516 EA 1,000 Amp, Double Throw Safety Switch, 240 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	12,941.21	1,193.23
26 28 16 00-0517 EA 1,200 Amp, Double Throw Safety Switch, 240 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	14,458.51	1,245.11
26 28 16 00-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0519 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	925.27	174.31
26 28 16 00-0520 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,370.10	227.75
26 28 16 00-0521 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,995.48	296.23
26 28 16 00-0522 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,504.74	370.42
26 28 16 00-0523 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,687.58	594.02
26 28 16 00-0524 EA 800 Amp, Double Throw Safety Switch, 600 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	7,734.47	830.07
26 28 16 00-0525 EA 1,000 Amp, Double Throw Safety Switch, 600 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	11,260.60	933.83
26 28 16 00-0526 EA 1,200 Amp, Double Throw Safety Switch, 600 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	13,238.37	1,037.59

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0527		600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0528	EA	60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,064.17	243.84
26 28 16 00-0529	EA	100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,552.23	319.06
26 28 16 00-0530	EA	200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,232.07	415.03
26 28 16 00-0531	EA	400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,801.24	518.80
26 28 16 00-0532	EA	600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,160.94	830.07
26 28 16 00-0533	EA	800 Amp, Double Throw Safety Switch, 600 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure	8,360.30	933.83
26 28 16 00-0534	EA	1,000 Amp, Double Throw Safety Switch, 600 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure	11,815.64	1,037.59
26 28 16 00-0535	EA	1,200 Amp, Double Throw Safety Switch, 600 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure	13,966.37	1,141.35
26 28 16 00-0536		600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0487)		
26 28 16 00-0537	EA	60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,425.97	305.06
26 28 16 00-0538	EA	100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,419.81	398.43
26 28 16 00-0539	EA	200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,367.73	517.76
26 28 16 00-0540	EA	400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,567.19	648.50
26 28 16 00-0541	EA	600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,378.62	1,039.15
26 28 16 00-0542	EA	800 Amp, Double Throw Safety Switch, 600 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure	10,637.95	1,141.35
26 28 16 00-0543	EA	1,000 Amp, Double Throw Safety Switch, 600 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure	13,996.68	1,193.23
26 28 16 00-0544	EA	1,200 Amp, Double Throw Safety Switch, 600 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure	15,655.34	1,245.11
26 28 16 00-0545		NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0486)		
26 28 16 00-0546		240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0545)		
26 28 16 00-0547	EA	100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,382.32	227.75
26 28 16 00-0548	EA	200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,034.20	296.23
26 28 16 00-0549	EA	400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	9,577.39	370.42
26 28 16 00-0550	EA	600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	16,468.57	594.02
26 28 16 00-0551		240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0545)		
26 28 16 00-0552	EA	100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,824.10	318.54
26 28 16 00-0553	EA	200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,884.74	414.52
26 28 16 00-0554	EA	400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	9,957.15	518.80
26 28 16 00-0555	EA	600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	10,982.13	831.63
26 28 16 00-0556		240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0545)		
26 28 16 00-0557	EA	30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,713.90	233.56
26 28 16 00-0558	EA	60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,134.57	304.84
26 28 16 00-0559	EA	100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,975.11	398.33
26 28 16 00-0560	EA	200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,268.31	517.97
26 28 16 00-0561	EA	400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,107.56	648.50
26 28 16 00-0562	EA	600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	8,460.56	1,039.25
26 28 16 00-0563		600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0545)		
26 28 16 00-0564	EA	60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,161.00	174.31
26 28 16 00-0565	EA	100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,744.50	227.75
26 28 16 00-0566	EA	200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,104.60	296.23
26 28 16 00-0567	EA	400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,853.79	370.42
26 28 16 00-0568	EA	600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,882.89	594.02
26 28 16 00-0569		600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0545)		
26 28 16 00-0570	EA	60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,343.32	243.84
26 28 16 00-0571	EA	100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,994.64	318.54
26 28 16 00-0572	EA	200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,473.38	414.52
26 28 16 00-0573	EA	400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	6,419.40	518.80
26 28 16 00-0574	EA	600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	8,708.14	831.63
26 28 16 00-0575		600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0545)		
26 28 16 00-0576	EA	60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,150.49	304.84
26 28 16 00-0577	EA	100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,982.41	398.33
26 28 16 00-0578	EA	200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,369.65	517.97
26 28 16 00-0579	EA	400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,095.59	648.50
26 28 16 00-0580	EA	600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	8,526.51	1,039.25



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Circuit Protective Devices		26 28

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0581	NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0486)		
26 28 16 00-0582	240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0581)		
26 28 16 00-0583	EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,339.32	133.44
26 28 16 00-0584	EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,530.91	174.21
26 28 16 00-0585	EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,750.66	227.65
26 28 16 00-0586	EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,396.63	296.03
26 28 16 00-0587	EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,367.99	370.52
26 28 16 00-0588	EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,436.72	593.81
26 28 16 00-0589	240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0581)		
26 28 16 00-0590	EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,559.28	186.76
26 28 16 00-0591	EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,858.05	243.84
26 28 16 00-0592	EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,222.65	318.54
26 28 16 00-0593	EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,080.87	414.52
26 28 16 00-0594	EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,472.99	518.80
26 28 16 00-0595	EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,319.86	831.63
26 28 16 00-0596	240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0581)		
26 28 16 00-0597	EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,301.98	233.56
26 28 16 00-0598	EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,712.31	304.84
26 28 16 00-0599	EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,706.88	398.33
26 28 16 00-0600	EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,022.56	517.97
26 28 16 00-0601	EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,109.88	648.50
26 28 16 00-0602	EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,458.50	1,039.25
26 28 16 00-0603	600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0581)		
26 28 16 00-0604	EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,986.22	174.21
26 28 16 00-0605	EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,115.39	227.65
26 28 16 00-0606	EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,929.19	296.03
26 28 16 00-0607	EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,635.93	370.52
26 28 16 00-0608	EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,626.21	593.81
26 28 16 00-0609	600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0581)		
26 28 16 00-0610	EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,211.79	243.84
26 28 16 00-0611	EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,384.99	318.54
26 28 16 00-0612	EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,341.24	414.52
26 28 16 00-0613	EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,189.87	518.80
26 28 16 00-0614	EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,437.67	831.63
26 28 16 00-0615	600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 00-0581)		
26 28 16 00-0616	EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,738.25	304.84
26 28 16 00-0617	EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,898.22	398.33
26 28 16 00-0618	EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,135.34	517.97
26 28 16 00-0619	EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,352.63	648.50
26 28 16 00-0620	EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,780.26	1,039.25
26 28 16 00-0621	Removal And Reinstallation Of Disconnect Switches (26 28 16 00-0001) Note: Includes storage and cleaning.		
26 28 16 00-0622	EA Removal And Reinstallation Of Up To 100 Amp Safety Disconnect Switch.....	518.80	
26 28 16 00-0623	EA Removal And Reinstallation Of >100 To 200 Amp Safety Disconnect Switch	674.47	
26 28 16 00-0624	EA Removal And Reinstallation Of >200 To 300 Amp Safety Disconnect Switch	752.31	
26 28 16 00-0625	EA Removal And Reinstallation Of >300 To 400 Amp Safety Disconnect Switch	882.01	
26 28 16 00-0626	Bolted Contact Switches (26 28 16) Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 00-0627	Electrical Trip, Bolted Contact Switches (26 28 16 00-0626)		
26 28 16 00-0628	Top Feed, Electrical Trip, Bolted Contact Switches (26 28 16 00-0627)		
26 28 16 00-0629	EA 800 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	5,906.72	1,037.59
26 28 16 00-0630	EA 1,200 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	6,486.15	1,245.11
26 28 16 00-0631	EA 1,600 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	7,131.96	1,452.63

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0632 EA 2,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	7,626.05	1,660.15
26 28 16 00-0633 EA 2,500 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	8,606.95	1,867.66
26 28 16 00-0634 EA 3,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	10,593.17	2,075.18
26 28 16 00-0635 EA 4,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	14,047.15	2,490.22
26 28 16 00-0636 Bottom Feed, Electrical Trip, Bolted Contact Switches (26 28 16 00-0627)		
26 28 16 00-0637 EA 800 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	6,213.37	1,037.59
26 28 16 00-0638 EA 1,200 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	6,852.87	1,245.11
26 28 16 00-0639 EA 1,600 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	7,495.52	1,452.63
26 28 16 00-0640 EA 2,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	8,147.67	1,660.15
26 28 16 00-0641 EA 2,500 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	9,169.67	1,867.66
26 28 16 00-0642 EA 3,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	11,649.06	2,075.18
26 28 16 00-0643 EA 4,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	15,147.30	2,490.22
26 28 16 00-0644 Manually Operated, Bolted Contact Switches (26 28 16 00-0626)		
26 28 16 00-0645 Top Feed, Manually Operated, Bolted Contact Switches (26 28 16 00-0644)		
26 28 16 00-0646 EA 800 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	4,528.38	1,037.59
26 28 16 00-0647 EA 1,200 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	5,124.25	1,245.11
26 28 16 00-0648 EA 1,600 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	5,746.03	1,452.63
26 28 16 00-0649 EA 2,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	6,364.04	1,660.15
26 28 16 00-0650 EA 2,500 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	7,013.64	1,867.66
26 28 16 00-0651 EA 3,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	8,999.86	2,075.18
26 28 16 00-0652 EA 4,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	12,415.90	2,490.22
26 28 16 00-0653 Bottom Feed, Manually Operated, Bolted Contact Switches (26 28 16 00-0644)		
26 28 16 00-0654 EA 800 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	4,731.34	1,037.59
26 28 16 00-0655 EA 1,200 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	5,430.90	1,245.11
26 28 16 00-0656 EA 1,600 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	6,043.20	1,452.63
26 28 16 00-0657 EA 2,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	6,756.68	1,660.15
26 28 16 00-0658 EA 2,500 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	7,506.81	1,867.66
26 28 16 00-0659 EA 3,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	9,976.71	2,075.18
26 28 16 00-0660 EA 4,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	13,440.18	2,490.22
26 29 Low-Voltage Controllers (26 20)		
26 29 13 Enclosed Controllers (26 29)		
26 29 13 13 Across-The-Line Motor Controllers (26 29 13)		
26 29 13 13-0001 Manual Motor Starters (26 29 13 13)		
26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	165.17	51.95
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-1.71	
For Oversized Enclosure, Add	17.10	
For Pilot Light, Add	25.08	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	216.02	67.53
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-1.71	
For Oversized Enclosure, Add	17.10	
For Pilot Light, Add	25.08	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	182.27	51.95
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-1.71	
For Oversized Enclosure, Add	17.10	
For Pilot Light, Add	25.08	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	233.12	67.53
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-1.71	
For Oversized Enclosure, Add	17.10	
For Pilot Light, Add	25.08	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	172.58	51.95
For Oversized Enclosure, Add	17.10	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	225.71	67.53
For Oversized Enclosure, Add	17.10	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	319.34	62.33
For Pilot Light, Add	65.55	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	371.88	77.92
For Pilot Light, Add	65.55	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	336.44	62.33
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	387.27	77.92



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	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0013 Non Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0014 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1)	140.19	51.95
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	8.25	
For Pilot Light, Add	39.60	
26 29 13 13-0015 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2)	217.02	67.53
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	8.25	
For Pilot Light, Add	39.60	
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5)	157.18	57.15
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	8.25	
For Pilot Light, Add	39.60	
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6)	234.55	72.73
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	8.25	
For Pilot Light, Add	39.60	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3)	156.14	51.95
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	8.25	
For Pilot Light, Add	39.60	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4)	233.52	67.53
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	8.25	
For Pilot Light, Add	39.60	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1)	297.38	62.33
For Pilot Light, Add	62.70	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2)	368.14	77.92
For Pilot Light, Add	62.70	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5)	314.92	67.53
For Pilot Light, Add	62.70	
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6)	384.04	83.12
For Pilot Light, Add	62.70	
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1)	312.78	62.33
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2)	387.94	77.92
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1)	101.33	36.36
For Pilot Light, Add	39.60	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2)	178.14	51.95
For Pilot Light, Add	39.60	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5)	118.32	41.56
For Pilot Light, Add	39.60	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6)	195.13	57.15
For Pilot Light, Add	39.60	
26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	344.86	93.51
For Pilot Light, Add	63.80	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	491.90	124.68
For Pilot Light, Add	63.80	
26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	344.86	93.51
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22)	491.90	124.68
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	299.68	62.33
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1)	299.68	62.33

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0039	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	580.37	72.73
26 29 13 13-0040	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	580.37	72.73
26 29 13 13-0041	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	742.25	72.73
26 29 13 13-0042	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	376.88	72.73
26 29 13 13-0043	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	251.41	46.76
26 29 13 13-0044	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	351.11	67.53
26 29 13 13-0045	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	351.11	67.53
26 29 13 13-0046	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	688.23	77.92
26 29 13 13-0047	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	688.23	77.92
26 29 13 13-0048	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	862.65	77.92
26 29 13 13-0049	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	428.31	77.92
26 29 13 13-0050	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	302.83	51.95
26 29 13 13-0051	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	449.84	72.73
26 29 13 13-0052	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	449.84	72.73
26 29 13 13-0053	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	811.49	83.12
26 29 13 13-0054	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	811.49	83.12
26 29 13 13-0055	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	978.50	83.12
26 29 13 13-0056	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	528.77	83.12
26 29 13 13-0057	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	403.28	57.15
26 29 13 13-0058	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	371.60	77.92
26 29 13 13-0059	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	371.60	77.92
26 29 13 13-0060	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	652.31	88.31
26 29 13 13-0061	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	652.31	88.31
26 29 13 13-0062	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	818.75	88.31
26 29 13 13-0063	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	449.39	88.31
26 29 13 13-0064	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	325.05	62.33
26 29 13 13-0065	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	423.04	83.12
26 29 13 13-0066	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	423.04	83.12
26 29 13 13-0067	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	760.16	93.51
26 29 13 13-0068	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	760.16	93.51
26 29 13 13-0069	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	938.57	93.51
26 29 13 13-0070	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	500.24	93.51
26 29 13 13-0071	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	374.77	67.53
26 29 13 13-0072		Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	815.84	109.09
26 29 13 13-0074	EA	NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	815.84	109.09
26 29 13 13-0075	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	705.05	77.92
26 29 13 13-0076	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	958.03	119.48
26 29 13 13-0077	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	847.25	88.31
26 29 13 13-0078		Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	815.84	109.09



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Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1)	705.05	77.92
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1)	958.03	119.48
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1)	847.25	88.31
26 29 13 13-0083 Magnetic Motor Starters (26 29 13 13)		
26 29 13 13-0084 Non Reversing, Magnetic Contactors (26 29 13 13-0083)		
26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11)	371.39	103.89
For Factory Installed Accessory, Deduct	-207.80	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12)	416.10	114.28
For Factory Installed Accessory, Deduct	-228.57	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5)	395.33	103.89
For Factory Installed Accessory, Deduct	-207.80	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1)	440.61	114.28
For Factory Installed Accessory, Deduct	-228.57	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2)	485.33	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3)	612.08	155.84
For Factory Installed Accessory, Deduct	-311.69	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4)	763.90	187.01
For Factory Installed Accessory, Deduct	-374.02	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5)	456.00	114.28
For Factory Installed Accessory, Deduct	-228.57	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1)	500.72	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2)	546.58	135.07
For Factory Installed Accessory, Deduct	-270.13	
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3)	705.07	181.81
For Factory Installed Accessory, Deduct	-363.64	
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4)	856.32	212.99
For Factory Installed Accessory, Deduct	-425.97	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1)	720.74	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2)	814.43	155.84
For Factory Installed Accessory, Deduct	-311.69	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3)	1,064.81	207.80
For Factory Installed Accessory, Deduct	-415.58	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1)	1,058.39	155.84
For Factory Installed Accessory, Deduct	-311.69	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2)	1,227.83	207.80
For Factory Installed Accessory, Deduct	-415.58	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3)	1,558.59	259.74
For Factory Installed Accessory, Deduct	-519.48	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4)	2,182.33	311.69
For Factory Installed Accessory, Deduct	-623.38	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1)	2,321.82	259.74
For Factory Installed Accessory, Deduct	-519.48	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2)	2,572.21	311.69
For Factory Installed Accessory, Deduct	-623.38	
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3)	3,438.77	363.64
For Factory Installed Accessory, Deduct	-727.28	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1)	4,529.02	311.69
For Factory Installed Accessory, Deduct	-623.38	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2)	5,078.24	415.58
For Factory Installed Accessory, Deduct	-831.17	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0110	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2)	12,839.98	623.38
			<i>For Factory Installed Accessory, Deduct</i>	-1,246.75	
26 29 13 13-0111	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2)	18,416.09	935.06
			<i>For Factory Installed Accessory, Deduct</i>	-1,870.13	
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors (26 29 13 13-0084)					
26 29 13 13-0113	EA		Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG1)	389.06	103.89
			<i>For Factory Installed Accessory, Deduct</i>	-207.80	
26 29 13 13-0114	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG12)	433.77	114.28
			<i>For Factory Installed Accessory, Deduct</i>	-228.57	
26 29 13 13-0115	EA		Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5)	413.00	103.89
			<i>For Factory Installed Accessory, Deduct</i>	-207.80	
26 29 13 13-0116	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1)	458.85	114.28
			<i>For Factory Installed Accessory, Deduct</i>	-228.57	
26 29 13 13-0117	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2)	503.57	124.68
			<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0118	EA		Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3)	631.46	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0119	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4)	783.85	187.01
			<i>For Factory Installed Accessory, Deduct</i>	-374.02	
26 29 13 13-0120	EA		Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5)	474.81	114.28
			<i>For Factory Installed Accessory, Deduct</i>	-228.57	
26 29 13 13-0121	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1)	520.67	124.68
			<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0122	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2)	565.39	135.07
			<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0123	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3)	724.45	181.81
			<i>For Factory Installed Accessory, Deduct</i>	-363.64	
26 29 13 13-0124	EA		Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4)	875.13	212.99
			<i>For Factory Installed Accessory, Deduct</i>	-425.97	
26 29 13 13-0125	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1)	805.10	124.68
			<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0126	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2)	899.36	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0127	EA		Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3)	1,149.17	207.80
			<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0128	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1)	1,224.26	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0129	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2)	1,393.13	207.80
			<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0130	EA		Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3)	1,724.46	259.74
			<i>For Factory Installed Accessory, Deduct</i>	-519.48	
26 29 13 13-0131	EA		Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1)	2,665.53	259.74
			<i>For Factory Installed Accessory, Deduct</i>	-519.48	
26 29 13 13-0132	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2)	2,915.92	311.69
			<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0133	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2)	5,704.67	415.58
			<i>For Factory Installed Accessory, Deduct</i>	-831.17	
26 29 13 13-0134	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2)	15,594.79	623.38
			<i>For Factory Installed Accessory, Deduct</i>	-1,246.75	
26 29 13 13-0135	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2)	21,178.88	935.06
			<i>For Factory Installed Accessory, Deduct</i>	-1,870.13	
26 29 13 13-0136 NEMA 12, Non Reversing, Magnetic Contactors (26 29 13 13-0084)					
26 29 13 13-0137	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1)	556.32	114.28
			<i>For Factory Installed Accessory, Deduct</i>	-228.57	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0138 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	601.04	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0139 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	662.86	135.07
For Factory Installed Accessory, Deduct	-270.13	
26 29 13 13-0140 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	982.94	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0141 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,077.77	155.84
For Factory Installed Accessory, Deduct	-311.69	
26 29 13 13-0142 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	1,435.16	155.84
For Factory Installed Accessory, Deduct	-311.69	
26 29 13 13-0143 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	1,603.46	207.80
For Factory Installed Accessory, Deduct	-415.58	
26 29 13 13-0144 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2).....	3,614.17	311.69
For Factory Installed Accessory, Deduct	-623.38	
26 29 13 13-0145 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	7,491.62	415.58
For Factory Installed Accessory, Deduct	-831.17	
26 29 13 13-0146 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	17,785.87	623.38
For Factory Installed Accessory, Deduct	-1,246.75	
26 29 13 13-0147 NEMA 4/4X, Non Reversing, Magnetic Contactors (26 29 13 13-0084) Note: Brushed stainless steel enclosure.		
26 29 13 13-0148 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	788.00	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0149 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	813.08	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0150 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	857.80	135.07
For Factory Installed Accessory, Deduct	-270.13	
26 29 13 13-0151 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,016.86	181.81
For Factory Installed Accessory, Deduct	-363.64	
26 29 13 13-0152 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	1,484.18	155.84
For Factory Installed Accessory, Deduct	-311.69	
26 29 13 13-0153 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	2,220.77	207.80
For Factory Installed Accessory, Deduct	-415.58	
26 29 13 13-0154 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	4,328.95	311.69
For Factory Installed Accessory, Deduct	-623.38	
26 29 13 13-0155 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	7,491.62	415.58
For Factory Installed Accessory, Deduct	-831.17	
26 29 13 13-0156 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	19,653.19	623.38
For Factory Installed Accessory, Deduct	-1,246.75	
26 29 13 13-0157 NEMA 7/9, Non Reversing, Magnetic Contactors (26 29 13 13-0084) Note: Bolted cast iron enclosure.		
26 29 13 13-0158 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	1,512.37	166.24
For Factory Installed Accessory, Deduct	-332.47	
26 29 13 13-0159 Non Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0160 Open Enclosure, Non Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	427.82	103.89
For Factory Installed Accessory, Deduct	-207.80	
26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	448.59	114.28
For Factory Installed Accessory, Deduct	-228.57	
26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	476.52	114.28
For Factory Installed Accessory, Deduct	-228.57	
26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	525.80	124.68
For Factory Installed Accessory, Deduct	-249.35	
26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	835.15	187.01
For Factory Installed Accessory, Deduct	-374.02	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0166	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	538.34	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0167	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	623.53	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0168	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	647.47	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0169	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	772.61	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0170	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	887.96	155.84
		<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0171	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	1,349.24	207.80
		<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0172	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	2,759.17	311.69
		<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0173	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	6,047.81	415.58
		<i>For Factory Installed Accessory, Deduct</i>	-831.17	
26 29 13 13-0174	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	13,647.67	623.38
		<i>For Factory Installed Accessory, Deduct</i>	-1,246.75	
26 29 13 13-0175	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	19,688.33	935.06
		<i>For Factory Installed Accessory, Deduct</i>	-1,870.13	
26 29 13 13-0176 NEMA 1, Non Reversing, Magnetic Starters (26 29 13 13-0159)				
26 29 13 13-0177	EA	Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11).....	446.63	103.89
		<i>For Factory Installed Accessory, Deduct</i>	-207.80	
26 29 13 13-0178	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	467.40	114.28
		<i>For Factory Installed Accessory, Deduct</i>	-228.57	
26 29 13 13-0179	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	495.33	114.28
		<i>For Factory Installed Accessory, Deduct</i>	-228.57	
26 29 13 13-0180	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	544.61	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0181	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	556.58	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0182	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	606.43	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0183	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	666.85	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0184	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	857.54	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0185	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	972.89	155.84
		<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0186	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	1,515.11	207.80
		<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0187	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	3,102.88	311.69
		<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0188	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	6,675.95	415.58
		<i>For Factory Installed Accessory, Deduct</i>	-831.17	
26 29 13 13-0189 NEMA 12, Non Reversing, Magnetic Starters (26 29 13 13-0159)				
26 29 13 13-0190	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	592.80	114.28
		<i>For Factory Installed Accessory, Deduct</i>	-228.57	
26 29 13 13-0191	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	642.08	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0192	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	654.05	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0193	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	703.90	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Controllers	26 29	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 29 13 13-0194	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	764.32		135.07
		For Factory Installed Accessory, Deduct	-270.13		
26 29 13 13-0195	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6)	1,035.95		124.68
		For Factory Installed Accessory, Deduct	-249.35		
26 29 13 13-0196	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1)	1,150.73		155.84
		For Factory Installed Accessory, Deduct	-311.69		
26 29 13 13-0197	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1)	1,725.44		207.80
		For Factory Installed Accessory, Deduct	-415.58		
26 29 13 13-0198	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	3,800.56		311.69
		For Factory Installed Accessory, Deduct	-623.38		
26 29 13 13-0199	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1)	8,461.19		415.58
		For Factory Installed Accessory, Deduct	-831.17		
26 29 13 13-0200	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2)	19,901.14		623.38
		For Factory Installed Accessory, Deduct	-1,246.75		
26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters (26 29 13 13-0159)					
26 29 13 13-0202	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1)	592.80		114.28
		For Factory Installed Accessory, Deduct	-228.57		
26 29 13 13-0203	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2)	642.08		124.68
		For Factory Installed Accessory, Deduct	-249.35		
26 29 13 13-0204	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1)	654.05		124.68
		For Factory Installed Accessory, Deduct	-249.35		
26 29 13 13-0205	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	703.90		135.07
		For Factory Installed Accessory, Deduct	-270.13		
26 29 13 13-0206	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	764.32		135.07
		For Factory Installed Accessory, Deduct	-270.13		
26 29 13 13-0207	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6)	1,035.95		124.68
		For Factory Installed Accessory, Deduct	-249.35		
26 29 13 13-0208	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,150.73		155.84
		For Factory Installed Accessory, Deduct	-311.69		
26 29 13 13-0209	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1)	1,725.44		207.80
		For Factory Installed Accessory, Deduct	-415.58		
26 29 13 13-0210	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1)	3,800.56		311.69
		For Factory Installed Accessory, Deduct	-623.38		
26 29 13 13-0211 NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159)					
Note: Bolted cast aluminum enclosure.					
26 29 13 13-0212	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4)	1,578.75		176.63
		For Factory Installed Accessory, Deduct	-353.25		
26 29 13 13-0213	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	1,910.49		176.63
		For Factory Installed Accessory, Deduct	-353.25		
26 29 13 13-0214	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3)	1,972.30		187.01
		For Factory Installed Accessory, Deduct	-374.02		
26 29 13 13-0215	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1)	2,995.97		207.80
		For Factory Installed Accessory, Deduct	-415.58		
26 29 13 13-0216	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	3,619.71		259.74
		For Factory Installed Accessory, Deduct	-519.48		
26 29 13 13-0217	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	5,730.74		363.64
		For Factory Installed Accessory, Deduct	-727.28		
26 29 13 13-0218 NEMA 4/4X, Non Reversing, Magnetic Starters (26 29 13 13-0159)					
Note: Brushed stainless steel enclosure.					
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	779.19		114.28
		For Factory Installed Accessory, Deduct	-228.57		
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12)	829.04		124.68
		For Factory Installed Accessory, Deduct	-249.35		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	848.99	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	898.84	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	959.26	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	1,441.22	124.68
		<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	2,342.18	207.80
		<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	4,514.77	311.69
		<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	9,834.32	415.58
		<i>For Factory Installed Accessory, Deduct</i>	-831.17	
26 29 13 13-0228 NEMA 4X, Non Reversing, Magnetic Starters (26 29 13 13-0159)				
		Note: Glass polyester enclosure.		
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	1,557.71	155.84
		<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0230	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	2,824.40	207.80
		<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0231	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	5,488.33	311.69
		<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0232 NEMA 7/9, Non Reversing, Magnetic Starters (26 29 13 13-0159)				
		Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	1,524.34	166.24
		<i>For Factory Installed Accessory, Deduct</i>	-332.47	
26 29 13 13-0234	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	1,578.75	176.63
		<i>For Factory Installed Accessory, Deduct</i>	-353.25	
26 29 13 13-0235	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	1,599.27	176.63
		<i>For Factory Installed Accessory, Deduct</i>	-353.25	
26 29 13 13-0236	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3).....	1,651.39	187.01
		<i>For Factory Installed Accessory, Deduct</i>	-374.02	
26 29 13 13-0237	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	1,720.93	187.01
		<i>For Factory Installed Accessory, Deduct</i>	-374.02	
26 29 13 13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1).....	2,480.69	207.80
		<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)				
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)				
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	762.04	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	797.95	135.07
		<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	880.29	145.45
		<i>For Factory Installed Accessory, Deduct</i>	-290.91	
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	917.03	155.84
		<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	936.98	155.84
		<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,002.22	166.24
		<i>For Factory Installed Accessory, Deduct</i>	-332.47	
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,050.49	181.81
		<i>For Factory Installed Accessory, Deduct</i>	-363.64	
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,071.01	181.81
		<i>For Factory Installed Accessory, Deduct</i>	-363.64	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Controllers	26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0249	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	1,754.51	207.80
			<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0250	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	2,847.52	311.69
			<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0251	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	6,367.16	467.53
			<i>For Factory Installed Accessory, Deduct</i>	-935.06	
26 29 13 13-0252	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	11,682.88	623.38
			<i>For Factory Installed Accessory, Deduct</i>	-1,246.75	
26 29 13 13-0253	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	37,198.22	1,142.86
			<i>For Factory Installed Accessory, Deduct</i>	-2,285.72	
26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)					
26 29 13 13-0255	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	775.46	124.68
			<i>For Factory Installed Accessory, Deduct</i>	-249.35	
26 29 13 13-0256	EA		Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	813.34	135.07
			<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0257	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	833.86	135.07
			<i>For Factory Installed Accessory, Deduct</i>	-270.13	
26 29 13 13-0258	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	914.49	145.45
			<i>For Factory Installed Accessory, Deduct</i>	-290.91	
26 29 13 13-0259	EA		Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	952.37	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0260	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	972.89	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0261	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,053.52	166.24
			<i>For Factory Installed Accessory, Deduct</i>	-332.47	
26 29 13 13-0262	EA		Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,101.79	181.81
			<i>For Factory Installed Accessory, Deduct</i>	-363.64	
26 29 13 13-0263	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,122.31	181.81
			<i>For Factory Installed Accessory, Deduct</i>	-363.64	
26 29 13 13-0264	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	1,887.89	207.80
			<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0265	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	3,078.37	311.69
			<i>For Factory Installed Accessory, Deduct</i>	-623.38	
26 29 13 13-0266	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	6,791.24	467.53
			<i>For Factory Installed Accessory, Deduct</i>	-935.06	
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)					
26 29 13 13-0268	EA		Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,098.29	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0269	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,118.81	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0270	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	1,268.23	181.81
			<i>For Factory Installed Accessory, Deduct</i>	-363.64	
26 29 13 13-0271	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	2,131.85	207.80
			<i>For Factory Installed Accessory, Deduct</i>	-415.58	
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)					
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	1,345.67	155.84
			<i>For Factory Installed Accessory, Deduct</i>	-311.69	
26 29 13 13-0274	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	1,573.36	166.24
			<i>For Factory Installed Accessory, Deduct</i>	-332.47	
26 29 13 13-0275 Magnetic Contactor/Starters Accessories (26 29 13 13-0083)					
26 29 13 13-0276	EA		NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	101.37	12.99
			<i>For Factory Installed Accessory, Deduct</i>	-25.97	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0277	EA	NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3) <i>For Factory Installed Accessory, Deduct</i>	165.72 -25.97	12.99
26 29 13 13-0278	EA	NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2) <i>For Factory Installed Accessory, Deduct</i>	101.37 -25.97	12.99
26 29 13 13-0279	EA	NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8) <i>For Factory Installed Accessory, Deduct</i>	165.72 -25.97	12.99
26 29 13 13-0280	EA	NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R) <i>For Factory Installed Accessory, Deduct</i>	165.72 -25.97	12.99
26 29 13 13-0281	EA	Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11) <i>For Factory Installed Accessory, Deduct</i>	85.12 -20.77	10.39
26 29 13 13-0282	EA	External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6) <i>For Factory Installed Accessory, Deduct</i>	76.67 -20.77	10.39
26 29 13 13-0283	EA	External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8) <i>For Factory Installed Accessory, Deduct</i>	101.37 -25.97	12.99
26 29 13 13-0284	EA	External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13) <i>For Factory Installed Accessory, Deduct</i>	85.12 -20.77	10.39
26 29 13 13-0285	EA	External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15) <i>For Factory Installed Accessory, Deduct</i>	113.07 -25.97	12.99
26 29 13 13-0286	EA	30 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6) <i>For Factory Installed Accessory, Deduct</i>	123.47 -20.77	10.39
26 29 13 13-0287	EA	45 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11) <i>For Factory Installed Accessory, Deduct</i>	207.32 -20.77	10.39
26 29 13 13-0288	EA	60 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21) <i>For Factory Installed Accessory, Deduct</i>	219.67 -20.77	10.39
26 29 13 13-0289	EA	30 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8) <i>For Factory Installed Accessory, Deduct</i>	263.22 -25.97	12.99
26 29 13 13-0290	EA	45 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13) <i>For Factory Installed Accessory, Deduct</i>	452.37 -25.97	12.99
26 29 13 13-0291	EA	60 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23) <i>For Factory Installed Accessory, Deduct</i>	452.37 -25.97	12.99
26 29 13 13-0292	EA	Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1) <i>For Factory Installed Accessory, Deduct</i>	32.56 -15.59	7.79
26 29 13 13-0293	EA	1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3) <i>For Factory Installed Accessory, Deduct</i>	62.37 -20.77	10.39
26 29 13 13-0294	EA	2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4) <i>For Factory Installed Accessory, Deduct</i>	81.87 -25.97	12.99
26 29 13 13-0295	EA	Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1) <i>For Factory Installed Accessory, Deduct</i>	66.27 -25.97	12.99
26 29 13 13-0296	EA	Terminal Block, Contactor/Starter Accessory (Square D 9999T7) <i>For Factory Installed Accessory, Deduct</i>	37.24 -15.59	7.79
26 29 13 13-0297	EA	Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1) <i>For Factory Installed Accessory, Deduct</i>	24.89 -15.59	7.79
26 29 13 13-0298	EA	1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39) <i>For Factory Installed Accessory, Deduct</i>	108.52 -20.77	10.39
26 29 13 13-0299	EA	2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40) <i>For Factory Installed Accessory, Deduct</i>	183.92 -25.97	12.99
26 29 13 13-0300		Definite Purpose Starters (26 29 13 13)		
26 29 13 13-0301		Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0302	EA	Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13) <i>For Factory Installed Accessory, Deduct</i>	418.64 -249.35	124.68
26 29 13 13-0303	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22) <i>For Factory Installed Accessory, Deduct</i>	418.07 -249.35	124.68
26 29 13 13-0304	EA	Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23) <i>For Factory Installed Accessory, Deduct</i>	452.53 -270.13	135.07
26 29 13 13-0305	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32) <i>For Factory Installed Accessory, Deduct</i>	439.16 -249.35	124.68
26 29 13 13-0306	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33) <i>For Factory Installed Accessory, Deduct</i>	477.04 -270.13	135.07
26 29 13 13-0307	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42) <i>For Factory Installed Accessory, Deduct</i>	457.40 -249.35	124.68
26 29 13 13-0308	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43) <i>For Factory Installed Accessory, Deduct</i>	539.12 -311.69	155.84
26 29 13 13-0309	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52) <i>For Factory Installed Accessory, Deduct</i>	586.43 -311.69	155.84
26 29 13 13-0310	EA	Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53) <i>For Factory Installed Accessory, Deduct</i>	727.30 -363.64	181.81
26 29 13 13-0311		NEMA 1, Definite Purpose Starter (26 29 13 13-0300)		



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0312	EA	NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	417.81	114.28	
		<i>For Factory Installed Accessory, Deduct</i>	-228.57		
26 29 13 13-0313	EA	NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	452.27	124.68	
		<i>For Factory Installed Accessory, Deduct</i>	-249.35		
26 29 13 13-0314	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	451.13	124.68	
		<i>For Factory Installed Accessory, Deduct</i>	-249.35		
26 29 13 13-0315	EA	NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	487.30	135.07	
		<i>For Factory Installed Accessory, Deduct</i>	-270.13		
26 29 13 13-0316	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	472.79	124.68	
		<i>For Factory Installed Accessory, Deduct</i>	-249.35		
26 29 13 13-0317	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	511.24	135.07	
		<i>For Factory Installed Accessory, Deduct</i>	-270.13		
26 29 13 13-0318	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	492.17	124.68	
		<i>For Factory Installed Accessory, Deduct</i>	-249.35		
26 29 13 13-0319	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	573.32	155.84	
		<i>For Factory Installed Accessory, Deduct</i>	-311.69		
26 29 13 13-0320	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52)	618.92	155.84	
		<i>For Factory Installed Accessory, Deduct</i>	-311.69		
26 29 13 13-0321	EA	NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53)	760.36	181.81	
		<i>For Factory Installed Accessory, Deduct</i>	-363.64		
26 29 13 13-0322		Definite Purpose Starter Accessory (26 29 13 13-0300)			
26 29 13 13-0323	EA	Start-Stop Push Button Kit, Definite Purpose Starter Accessory	113.07	12.99	
		Note: Or Hand-Off-Auto Selector Switch Kit			
		<i>For Factory Installed Accessory, Deduct</i>	-25.97		
26 29 13 13-0324		Panel Mounted Miniature Contactor (26 29 13 13)			
26 29 13 13-0325		Non Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)			
26 29 13 13-0326	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	136.38	51.95	
26 29 13 13-0327	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	157.03	57.15	
26 29 13 13-0328	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	157.03	57.15	
26 29 13 13-0329	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	173.70	62.33	
26 29 13 13-0330	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	146.64	51.95	
26 29 13 13-0331	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	152.34	51.95	
26 29 13 13-0332	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	166.72	57.15	
26 29 13 13-0333	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	172.42	57.15	
26 29 13 13-0334	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	170.14	57.15	
26 29 13 13-0335	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	172.42	57.15	
26 29 13 13-0336	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	185.10	62.33	
26 29 13 13-0337	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	175.84	57.15	
26 29 13 13-0338	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	190.80	62.33	
26 29 13 13-0339	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	176.98	57.15	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0340	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	176.98	57.15
26 29 13 13-0341	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	196.50	62.33
26 29 13 13-0342	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	196.50	62.33
26 29 13 13-0343		Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)		
26 29 13 13-0344	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	177.99	51.95
26 29 13 13-0345	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	189.39	51.95
26 29 13 13-0346	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	209.47	57.15
26 29 13 13-0347	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	209.47	57.15
26 29 13 13-0348	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	220.87	57.15
26 29 13 13-0349	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	233.55	62.33
26 29 13 13-0350	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	233.55	62.33
26 29 13 13-0351	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	199.08	51.95
26 29 13 13-0352	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	210.48	51.95
26 29 13 13-0353	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	229.42	57.15
26 29 13 13-0354	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	240.82	57.15
26 29 13 13-0355	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	256.92	62.33
26 29 13 13-0356	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	268.32	62.33
26 29 13 13-0357	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	223.15	57.15
26 29 13 13-0358	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	249.94	57.15
26 29 13 13-0359	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	280.86	62.33
26 29 13 13-0360		Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361	EA	2 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	60.90	25.97
26 29 13 13-0362	EA	4 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	65.30	25.97
26 29 13 13-0363	EA	Electronic Time Delay Contact, 2 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	73.27	25.97
26 29 13 13-0364	EA	Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	89.12	25.97
26 29 13 13-0365		Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366		NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	5,969.95	498.04
		For NEMA 4, Add	619.09	
26 29 13 13-0368	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	10,376.71	664.06
		For NEMA 4, Add	1,130.81	
26 29 13 13-0369	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	18,083.27	788.57
		For NEMA 4, Add	2,063.90	
26 29 13 13-0370	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	43,891.02	964.95
		For NEMA 4, Add	5,246.20	
26 29 13 13-0371	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	69,960.72	1,234.74
		For NEMA 4, Add	8,436.28	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Controllers	26 29

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0372	NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373	EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	5,928.70	508.63
26 29 13 13-0374	EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	10,301.36	665.10
26 29 13 13-0375	EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	17,945.74	786.08
26 29 13 13-0376	EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	43,541.44	960.71
26 29 13 13-0377	EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	69,398.56	1,235.25
26 29 13 13-0378	Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379	EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	145.86	
26 29 13 13-0380	EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	160.87	
26 29 13 13-0381	EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	273.82	
26 29 13 13-0382	EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	148.78	
26 29 13 13-0383	EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	213.93	
26 29 13 13-0384	EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	106.96	
26 29 13 13-0385	EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	349.12	
26 29 13 13-0386	Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387	EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,403.35	
26 29 13 13-0388	EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,355.45	
26 29 13 13-0389	EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	479.19	
26 29 13 13-0390	EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	397.06	
26 29 13 13-0391	Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392	EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker	1,854.73	
26 29 13 13-0393	EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker	3,392.08	
26 29 13 13-0394	EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker	7,215.29	
26 29 13 13-0395	Factory Modifications Addition (26 29 13 13-0365) Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	311.49	
26 29 13 13-0397	EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	311.49	
26 29 13 13-0398	EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	311.49	
26 29 13 13-0399	EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	311.49	
26 29 13 13-0400	Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401	240-600 Volts, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402	NEMA 1 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0403	EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,168.78	238.65
	For Electronic Overloads, Add	130.80	
26 29 13 13-0404	EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,478.10	373.53
	For Electronic Overloads, Add	137.98	
26 29 13 13-0405	EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,014.53	435.79
	For Electronic Overloads, Add	218.48	
26 29 13 13-0406	EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,994.74	539.54
	For Electronic Overloads, Add	363.64	
26 29 13 13-0407	EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,421.00	861.20
	For Electronic Overloads, Add	701.42	
26 29 13 13-0408	EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	10,450.26	1,079.10
	For Electronic Overloads, Add	1,574.84	
26 29 13 13-0409	NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410	EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,441.11	238.65
	For Electronic Overloads, Add	182.54	
26 29 13 13-0411	EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,750.44	373.53
	For Electronic Overloads, Add	189.73	
26 29 13 13-0412	EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,279.30	435.79
	For Electronic Overloads, Add	268.78	
26 29 13 13-0413	EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,138.48	539.54
	For Electronic Overloads, Add	390.96	
26 29 13 13-0414	EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,245.57	861.20
	For Electronic Overloads, Add	858.09	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	12,636.52 1,990.23	1,079.10
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	124.02	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	291.29	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	201.04	
26 29 13 13-0420 NEMA 4 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,055.12 268.78	311.28
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,317.12 275.97	435.79
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,230.20 431.20	477.29
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	5,018.55 734.48	581.05
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	7,917.42 1,175.74	861.20
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	16,819.92 2,785.07	1,079.10
26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,327.46 320.53	311.28
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,589.46 327.71	435.79
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,494.98 481.51	477.29
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	5,162.28 761.79	581.05
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	8,741.99 1,332.41	861.20
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	15,965.08 2,622.65	1,079.10
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	124.04	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	291.29	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	201.04	
26 29 13 13-0438 NEMA 12 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	1,203.20 137.34	240.20
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	1,514.41 144.88	375.92
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,072.02 229.40	432.36
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,090.44 381.83	540.38
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	5,605.58 736.49	864.73
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	10,864.68 1,653.58	1,080.75
26 29 13 13-0445 NEMA 12 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	1,528.39 199.12	240.20
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	1,841.15 206.96	375.92
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	2,407.80 293.20	432.36
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	3,325.39 426.47	540.38
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	6,655.82 936.04	864.73
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase <i>For Electronic Overloads, Add</i>	13,588.04 2,171.02	1,080.75
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	123.00	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	288.87	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	199.37	



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Controllers		26 29

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 29 13 13-0456	NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)			
26 29 13 13-0457	EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,615.98		498.04
26 29 13 13-0458	EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,539.08		664.06
26 29 13 13-0459	EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,938.56		913.08
26 29 13 13-0460	EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,799.21		1,245.11
26 29 13 13-0461	EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,675.56		1,743.16
26 29 13 13-0462	Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)			
26 29 13 13-0463	EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	737.56		
26 29 13 13-0464	EA H-0-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	737.56		
26 29 13 13-0465	EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	737.56		
26 29 13 13-0466	Combination Starters Reversing (26 29 13 13)			
26 29 13 13-0467	240-600 Volt, 3 Pole (26 29 13 13-0466)			
26 29 13 13-0468	NEMA 1 With Disconnect Switch (26 29 13 13-0467)			
26 29 13 13-0469	EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,460.84		311.28
26 29 13 13-0470	EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,739.95		435.79
26 29 13 13-0471	EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,423.83		477.29
26 29 13 13-0472	EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,577.34		581.05
26 29 13 13-0473	EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,807.13		861.20
26 29 13 13-0474	NEMA 1 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0475	EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	1,604.53		311.28
26 29 13 13-0476	EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	1,893.34		435.79
26 29 13 13-0477	EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,603.39		477.29
26 29 13 13-0478	EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,330.13		581.05
26 29 13 13-0479	EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,292.82		861.20
26 29 13 13-0480	NEMA 12 With Disconnect Switch (26 29 13 13-0467)			
26 29 13 13-0481	EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,544.40		320.30
26 29 13 13-0482	EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,829.11		432.36
26 29 13 13-0483	EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,572.85		480.41
26 29 13 13-0484	EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,824.28		576.48
26 29 13 13-0485	EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	7,324.34		864.73
26 29 13 13-0486	NEMA 12 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0487	EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	1,702.73		320.30
26 29 13 13-0488	EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	1,998.12		432.36
26 29 13 13-0489	EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,770.70		480.41
26 29 13 13-0490	EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,551.90		576.48
26 29 13 13-0491	EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,859.49		864.73
26 29 13 13-0492	NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)			
26 29 13 13-0493	EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,200.18		664.06
26 29 13 13-0494	EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,492.10		830.07
26 29 13 13-0495	EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,968.42		1,079.10
26 29 13 13-0496	EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,764.08		1,411.12
26 29 13 13-0497	EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,866.10		1,909.16
26 29 13 13-0498	Solid State Motor Controllers (26 29 13 13)			
26 29 13 13-0499	Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)			
26 29 13 13-0500	EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,125.95		186.76
26 29 13 13-0501	EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	1,327.02		186.76
26 29 13 13-0502	Removal And Reinstallation Of Motor Starters (26 29 13 13)			
	Note: Includes storage and cleaning.			
26 29 13 13-0503	EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	741.13		
26 29 13 13-0504	Auxiliary Devices (26 29 13 13)			
26 29 13 13-0505	EA Auxiliary Contact, Normally Open	364.07		103.76
26 29 13 13-0506	EA Auxiliary Contact, Normally Closed.....	364.07		103.76
26 29 13 13-0507	EA Pilot Light Kit.....	379.86		103.76

26 30 Facility Electrical Power Generating And Storing Equipment

(26)

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 31 Photovoltaic Collectors**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 31 Photovoltaic Collectors (26 30)**26 31 00 00-0001****Photovoltaic Collectors** (26 31)

Note: All materials are to be installed per manufacturers specifications and must be in compliance with the California Energy Commission Guidelines (CEC-300-2011-005-CMF). See CSI section 26 28 13 00-0078 for fuses.

26 31 00 00-0002**Rigid Photovoltaic Modules** (26 31)**26 31 00 00-0003****Sanyo Rigid Photovoltaic Modules** (26 31 00 00-0002)

26 31 00 00-0004	EA	205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,176.80	98.57
		<i>For >50, Deduct</i>	-97.97	
26 31 00 00-0005	EA	210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,229.91	98.57
		<i>For >50, Deduct</i>	-103.28	
26 31 00 00-0006	EA	215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,155.97	98.57
		<i>For >50, Deduct</i>	-95.88	

26 31 00 00-0007**Sharp Rigid Photovoltaic Modules** (26 31 00 00-0002)

26 31 00 00-0008	EA	224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	937.68	98.57
		<i>For >50, Deduct</i>	-74.05	
26 31 00 00-0009	EA	230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,056.22	98.57
		<i>For >50, Deduct</i>	-85.91	
26 31 00 00-0010	EA	235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	1,074.99	98.57
		<i>For >50, Deduct</i>	-87.79	
26 31 00 00-0011	EA	240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,016.31	98.57
		<i>For >50, Deduct</i>	-81.92	

26 31 00 00-0012**BP Solar Rigid Photovoltaic Modules** (26 31 00 00-0002)

Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.

26 31 00 00-0013	EA	50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	501.04	98.57
		<i>For >50, Deduct</i>	-30.39	
26 31 00 00-0014	EA	75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	600.80	98.57
		<i>For >50, Deduct</i>	-40.37	
26 31 00 00-0015	EA	80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	640.70	98.57
		<i>For >50, Deduct</i>	-44.36	

26 31 00 00-0016**Photovoltaic Inverters** (26 31)**26 31 00 00-0017****Fronius Photovoltaic Inverters** (26 31 00 00-0016)

26 31 00 00-0018	EA	3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	2,702.70	103.76
26 31 00 00-0019	EA	5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	3,539.42	103.76
26 31 00 00-0020	EA	6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	3,731.66	103.76
26 31 00 00-0021	EA	7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	4,162.95	103.76
26 31 00 00-0022	EA	10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	6,545.21	103.76
26 31 00 00-0023	EA	12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	7,595.33	103.76
26 31 00 00-0024	EA	11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	6,280.50	207.52
26 31 00 00-0025	EA	11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	7,906.06	207.52
26 31 00 00-0026	EA	Inverter Display Stand (Fronius 4,045,894).....	270.06	51.88

26 31 00 00-0027**SMA Photovoltaic Inverters** (26 31 00 00-0016)

26 31 00 00-0028	EA	4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	2,008.33	103.76
26 31 00 00-0029	EA	5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	2,394.32	103.76
26 31 00 00-0030	EA	6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	2,754.04	103.76
26 31 00 00-0031	EA	7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	3,028.66	103.76
26 31 00 00-0032	EA	8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	2,936.16	103.76

26 31 00 00-0033**PVPowered Photovoltaic Inverters** (26 31 00 00-0016)

26 31 00 00-0034	EA	120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	2,490.32	103.76
26 31 00 00-0035	EA	240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	2,600.85	103.76
26 31 00 00-0036	EA	240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	2,865.18	103.76
26 31 00 00-0037	EA	240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	3,402.44	129.70
26 31 00 00-0038	EA	208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	4,146.38	155.64
26 31 00 00-0039	EA	240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	4,180.03	155.64
26 31 00 00-0040	EA	240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	4,403.98	155.64
26 31 00 00-0041	EA	208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	51,711.36	830.07
26 31 00 00-0042	EA	480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	51,778.95	830.07
26 31 00 00-0043	EA	208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	55,976.83	830.07
26 31 00 00-0044	EA	480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	51,940.25	830.07

26 31 00 00-0045**Solectria Photovoltaic Inverters** (26 31 00 00-0016)

26 31 00 00-0046	EA	208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI).....	8,199.48	207.52
26 31 00 00-0047	EA	208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI).....	8,199.48	207.52
26 31 00 00-0048	EA	208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI).....	8,434.58	207.52
26 31 00 00-0049	EA	480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI).....	8,434.58	207.52



Electrical		26
Facility Electrical Power Generating And Storing Equipment		26 30
Photovoltaic Collectors		26 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	25,669.48	622.55
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	24,493.97	622.55
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	28,020.49	622.55
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	27,367.43	622.55
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	29,718.44	622.55
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	28,412.32	622.55
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	31,439.59	830.07
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	30,002.87	830.07
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	32,615.10	830.07
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	30,917.15	830.07
26 31 00 00-0060 Xantrex Photovoltaic Inverters (26 31 00 00-0016)		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	356.14	25.94
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	386.36	25.94
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	608.45	25.94
26 31 00 00-0064 Photovoltaic DC-DC Converters (26 31)		
26 31 00 00-0065 EA 15 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	228.04	38.91
Note: Hazardous locations.		
26 31 00 00-0066 EA 20 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	162.32	38.91
26 31 00 00-0067 EA 60 Amp, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	397.04	38.91
26 31 00 00-0068 Photovoltaic Combiner Boxes (26 31)		
26 31 00 00-0069 Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0070 EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	318.34	103.76
26 31 00 00-0071 EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	312.25	103.76
26 31 00 00-0072 EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	489.37	155.64
26 31 00 00-0073 EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	491.50	155.64
26 31 00 00-0074 EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	688.92	155.64
26 31 00 00-0075 SMA Photovoltaic Combiner Boxes (26 31 00 00-0068)		
26 31 00 00-0076 EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	605.60	103.76
26 31 00 00-0077 EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	709.32	103.76
26 31 00 00-0078 EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	1,378.98	207.52
26 31 00 00-0079 EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	2,958.15	207.52
26 31 00 00-0080 EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	549.47	103.76
26 31 00 00-0081 Photovoltaic Charge Controller (26 31)		
26 31 00 00-0082 EA 35 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-35)	188.14	38.91
26 31 00 00-0083 EA 40 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-40)	240.95	38.91
26 31 00 00-0084 EA 60 Amp, 12 Or 24 Volt, Charge Controller (Xantrex C-60)	276.16	38.91
26 31 00 00-0085 EA Remote Digital Meter For Xantrex C-35, 40 And 60	218.65	38.91
26 31 00 00-0086 EA MPPT Charge Controller (Xantrex XW SCC)	692.85	51.88
26 31 00 00-0087 Photovoltaic Batteries (26 31)		
26 31 00 00-0088 Concorde Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0089 EA 34 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T)	157.79	15.57
26 31 00 00-0090 EA 45 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T)	199.82	20.75
26 31 00 00-0091 EA 49 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T)	215.13	20.75
26 31 00 00-0092 EA 56 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T)	252.24	31.13
26 31 00 00-0093 EA 69 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T)	283.91	31.13
26 31 00 00-0094 EA 89 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T)	336.51	36.31
26 31 00 00-0095 EA 104 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T)	385.74	41.50
26 31 00 00-0096 EA 108 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T)	381.72	41.50
26 31 00 00-0097 EA 210 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T)	679.09	49.29
26 31 00 00-0098 EA 255 Amp Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T)	781.39	51.88
26 31 00 00-0099 Deka Photovoltaic Batteries (26 31 00 00-0087)		
26 31 00 00-0100 EA 31 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8GU1)	172.83	25.97
26 31 00 00-0101 EA 50 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G22NF)	230.34	25.97
26 31 00 00-0102 EA 74 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G24)	330.09	25.97
26 31 00 00-0103 EA 86 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G27)	374.69	25.97
26 31 00 00-0104 EA 98 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G31)	375.86	25.97
26 31 00 00-0105 EA 183 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G4D)	709.17	25.97
26 31 00 00-0106 EA 225 Amp Hours Capacity @ 20 Hour Lead Acid Battery (Deka BYDK8G8D)	817.14	25.97
26 31 00 00-0107 Battery Enclosures (26 31 00 00-0087)		

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0108 EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010).....	192.71	25.94
26 31 00 00-0109 EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	865.25	25.97
26 31 00 00-0110 EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	814.79	25.97
26 31 00 00-0111 EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	1,078.85	25.97
26 31 00 00-0112 EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1).....	492.05	25.97
26 31 00 00-0113 EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP).....	1,129.31	25.97
26 31 00 00-0114 Photovoltaic System Monitoring (26 31)		
26 31 00 00-0115 EA Solar Inverter Monitor (Xantrex 864-0203).....	404.44	51.88
26 31 00 00-0116 EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox).....	772.76	25.94
26 31 00 00-0117 EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox).....	648.98	25.94
26 31 00 00-0118 EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA).....	136.17	25.94
26 31 00 00-0119 EA Wind Sensor Accessory For Sunny SensorBox (SMA).....	327.07	51.88
26 31 00 00-0120 EA Sunny Boy Control with RS485 (SMA).....	760.44	25.94
26 31 00 00-0121 EA RS 485 Module (SMA).....	188.48	25.94
26 31 00 00-0122 EA RS 232 Module (SMA).....	192.71	25.94
26 31 00 00-0123 EA Wireless Monitor with Bluetooth (SMA Sunny Beam).....	363.96	
26 31 00 00-0124 EA Bluetooth Piggy-Back Computer Card (SMA).....	195.00	25.94
26 31 00 00-0125 EA RS485-N Communication Computer Card (SMA).....	193.81	25.94
26 31 00 00-0126 EA Bluetooth Repeater (SMA).....	348.17	25.94
26 31 00 00-0127 EA Sunny Boy PC Service Cable (SMA).....	161.90	7.78
26 31 00 00-0128 EA Integrated Revenue Grade Meter, Option (PVPowered).....	3,010.28	
26 31 00 00-0129 EA Data Monitoring Module (PVPowered PVM1010).....	347.48	25.94
26 31 00 00-0130 EA Wireless IG Personal Display (Fronius 4,240,108).....	369.11	
26 31 00 00-0131 EA DatCom Power Supply (Fronius 43,0001,2311).....	117.35	
26 31 00 00-0132 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	214.98	25.94
26 31 00 00-0133 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	184.94	25.94
26 31 00 00-0134 EA Datalogger Pro Box (Fronius 4,240,102).....	668.35	25.94
26 31 00 00-0135 EA Datalogger Easy Box (Fronius 4,240,103).....	441.67	25.94
26 31 00 00-0136 EA Datalogger Interface Box (Fronius 4,240,105).....	752.00	25.94
26 31 00 00-0137 EA Datalogger Web (Fronius 4,240,122).....	1,278.00	25.94
26 31 00 00-0138 EA Interface Box (Fronius 4,240,109).....	357.84	25.94
26 31 00 00-0139 EA Interface Card (Fronius 4,240,009,Z).....	261.00	25.94
26 31 00 00-0140 EA Interface Card Easy (Fronius 4,240,013,Z).....	178.84	25.94
26 31 00 00-0141 EA Sensor Box (Fronius 4,240,104).....	697.15	25.94
26 31 00 00-0142 EA Ambient Temperature Sensor (Fronius 43,0001,1188).....	94.90	25.94
26 31 00 00-0143 EA Irradiance Sensor (Fronius 43,0001,1188).....	255.03	25.94
26 31 00 00-0144 EA Module Temperature Sensor (Fronius 43,0001,1190).....	281.79	25.94
26 31 00 00-0145 EA Wind Speed Sensor (Fronius 42,0411,0027).....	178.20	51.88
26 31 00 00-0146 Photovoltaic System Accessories (26 31)		
26 31 00 00-0147 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	539.44	51.88
26 31 00 00-0148 EA Line Communication Filter (Enphase LCF).....	1,168.70	103.76
26 31 00 00-0149 EA 15 Meter RS 485 Communication Cable (SMA).....	89.51	7.78
26 31 00 00-0150 EA 15 Meter RS 232 Communication Cable (SMA).....	131.76	7.78
26 31 00 00-0151 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	22.20	2.56
26 31 00 00-0152 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	23.61	2.56
26 31 00 00-0153 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	24.42	2.56
26 31 00 00-0154 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	26.63	2.56
26 31 00 00-0155 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	29.96	2.56
26 31 00 00-0156 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	48.84	5.14
26 31 00 00-0157 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	59.17	5.14
26 31 00 00-0158 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	78.79	7.70
26 31 00 00-0159 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	27.19	2.56
26 31 00 00-0160 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	36.62	2.56
26 31 00 00-0161 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	55.50	5.14
26 31 00 00-0162 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	72.13	5.14
26 31 00 00-0163 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	119.30	10.27
26 31 00 00-0164 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	123.99	10.27
26 31 00 00-0165 EA Lighting Kit, 9W Fluorescent, 12 V 4.5 Amp Hour Battery.....	2,212.31	280.15
Note: Tamper proof enclosure.		
26 31 00 00-0166 Photovoltaic Mounting Systems (26 31)		
26 31 00 00-0167 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	8.84	2.59
26 31 00 00-0168 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	29.62	12.97
26 31 00 00-0169 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	34.85	12.97
26 31 00 00-0170 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....	17.12	5.19
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0171 EA Mounting Rail Grounding Clip (UNIRAC 980006).....	9.24	3.89
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0172 EA Mounting Rail Grounding Lugs (UNIRAC 980012).....	17.36	5.19
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	4.92	1.73
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0174 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	5.09	1.73
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0175 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	13.30	5.19



Electrical		26
Facility Electrical Power Generating And Storing Equipment		26 30
Photovoltaic Collectors		26 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0176 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	75.38	25.94
26 31 00 00-0177 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	81.29	25.94
26 31 00 00-0178 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123) Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	86.06	25.94
26 31 00 00-0179 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	111.34	38.91
26 31 00 00-0180 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	129.08	38.91
26 31 00 00-0181 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109) Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	145.18	38.91
26 31 00 00-0182 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	166.85	51.88
26 31 00 00-0183 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	209.24	51.88
26 31 00 00-0184 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110) Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	297.93	77.82
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351)	146.17	
26 31 00 00-0186 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355)..... Note: Excludes ballast.	266.40	
26 31 00 00-0187 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	63.56	25.94
26 31 00 00-0188 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	64.10	25.94
26 31 00 00-0189 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	64.60	25.94
26 31 00 00-0190 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	65.85	25.94
26 31 00 00-0191 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	60.26	25.94
26 31 00 00-0192 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	60.89	25.94
26 31 00 00-0193 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	62.72	25.94
26 31 00 00-0194 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	62.20	25.94
26 31 00 00-0195 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390)	113.64	38.91
26 31 00 00-0196 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391)	114.02	38.91
26 31 00 00-0197 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394)	115.13	38.91
26 31 00 00-0198 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370)	113.97	38.91
26 31 00 00-0199 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	20.70	5.19
26 31 00 00-0200 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161)	14.99	5.19
26 31 00 00-0201 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	26.87	7.78
26 31 00 00-0202 EA 3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....	27.73	7.78
26 31 00 00-0203 EA Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100)..... Note: Mid or end clamp.	7.40	1.73
26 31 00 00-0204 EA Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024)	31.68	5.19
26 31 00 00-0205 EA Photovoltaic Module Wire Clip (UNIRAC 908002S-0100)	2.09	

26 32 Packaged Generator Assemblies ^(26 30)

26 32 13 Engine Generators ^(26 32)

See CSI section 23 13 23 13-0001 for fuel storage tanks.

26 32 13 13 Diesel-Engine-Driven Generator Sets ^(26 32 13)

26 32 13 13-0001 Diesel Generator Sets ^(26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0643 for loadbank rental, 23 13 23 13-0001 for fuel day tank, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002 EA 25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....	17,081.32	871.08
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,112.28	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	9,765.06	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,924.41	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	15,326.22	
26 32 13 13-0003 EA 35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	21,534.70	1,072.52
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,112.28	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	9,765.06	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,924.41	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	15,326.22	
26 32 13 13-0004 EA 40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB).....	22,223.41	1,175.97
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,112.28	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	9,765.06	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,924.41	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	15,326.22	

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0005 EA 50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC).....	23,907.07	1,350.18
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,112.28	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	9,765.06	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,924.41	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	15,326.22	
26 32 13 13-0006 EA 60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD).....	25,611.53	1,551.62
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,112.28	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	9,765.06	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,924.41	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	15,326.22	
26 32 13 13-0007 EA 80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE).....	28,598.58	1,818.39
For Weather Resistant Steel Diesel Generator Enclosure, Add	3,112.28	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	9,765.06	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	7,924.41	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	15,326.22	
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA).....	33,357.72	2,112.38
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,720.67	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,297.35	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB).....	34,731.95	2,504.37
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,720.67	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,297.35	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC).....	38,274.75	2,760.25
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,720.67	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,297.35	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB).....	44,273.43	3,081.46
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,720.67	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,297.35	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC).....	47,366.46	3,375.45
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,720.67	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,297.35	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD).....	52,987.53	3,566.00
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,720.67	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	16,297.35	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA).....	55,356.27	3,713.00
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA).....	60,270.99	3,914.43
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB).....	61,536.33	4,088.65
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG).....	69,892.56	4,573.19
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH).....	75,610.56	5,008.73
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ).....	85,685.86	5,395.28
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK).....	90,469.78	5,749.15
For Weather Resistant Steel Diesel Generator Enclosure, Add	30,614.70	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	45,199.15	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	37,131.03	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	55,250.17	
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA).....	131,050.55	6,331.69
For Weather Resistant Steel Diesel Generator Enclosure, Add	62,540.21	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	100,417.38	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	73,559.48	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	116,984.73	



	Electrical	26	
Facility Electrical Power Generating And Storing Equipment	26 30		26
Packaged Generator Assemblies	26 32		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quitsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quitsite Level 2 Aluminum Diesel Generator Enclosure, Add	149,894.66 62,540.21 100,417.38 73,559.48 116,984.73	6,963.23
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quitsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quitsite Level 2 Aluminum Diesel Generator Enclosure, Add	156,440.13 62,540.21 100,417.38 73,559.48 116,984.73	7,115.67
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quitsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quitsite Level 2 Aluminum Diesel Generator Enclosure, Add	190,290.15 62,540.21 100,417.38 73,559.48 116,984.73	7,670.99
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD)..... For Weather Resistant Steel Diesel Generator Enclosure, Add For Quitsite Level 2 Steel Diesel Generator Enclosure, Add For Weather Resistant Aluminum Diesel Generator Enclosure, Add For Quitsite Level 2 Aluminum Diesel Generator Enclosure, Add	212,043.18 62,540.21 100,417.38 73,559.48 116,984.73	8,166.41
26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)		
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad. Includes manufacturer's representative at startup. Excludes fuel tank, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0643 for loadbank rental, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,638.85 2,830.67 9,765.06 3,065.82 5,086.49	729.53
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	15,414.86 2,830.67 9,765.06 3,065.82 5,086.49	871.08
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,500.15 2,830.67 9,765.06 3,065.82 5,086.49	969.08
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	17,965.69 2,830.67 9,765.06 8,671.98 14,555.41	1,072.52
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,521.94 2,830.67 9,765.06 8,671.98 14,555.41	1,175.97
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	19,119.44 2,830.67 9,765.06 8,671.98 14,555.41	1,268.51
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	20,827.27 2,830.67 9,765.06 8,671.98 14,555.41	1,551.62
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	22,176.48 2,830.67 9,765.06 8,671.98 14,555.41	1,736.73
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	26,482.74 5,159.06 14,929.93 10,167.15 14,555.41	1,856.50
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	28,755.97 5,159.06 14,929.93 10,167.15 14,555.41	2,090.60
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA)..... For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add For Quitsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	36,016.84 5,159.06 14,929.93 10,167.15 14,555.41	2,504.37

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB).....	40,984.66	2,760.25
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	5,159.06	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	14,929.93	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	10,167.15	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	14,555.41	
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA)	97,942.66	7,342.04
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	27,531.46	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	40,635.25	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	30,102.27	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	45,171.56	
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB)	104,351.77	3,315.56
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	27,531.46	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	40,635.25	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	30,102.27	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	45,171.56	
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC)	105,760.38	3,713.00
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	27,531.46	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	40,635.25	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	30,102.27	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	45,171.56	
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFCA)	145,114.67	4,088.65
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	27,531.46	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	40,635.25	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	30,102.27	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	45,171.56	
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB)	146,696.90	4,573.19
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	27,531.46	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	40,635.25	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	30,102.27	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	45,171.56	
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFCA)	205,915.30	5,395.28
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	60,116.00	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	85,163.74	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	68,281.37	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	96,505.26	
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB)	279,842.06	5,749.15
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	60,116.00	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	85,163.74	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	68,281.37	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	96,505.26	
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)	294,461.00	6,059.47
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	60,116.00	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	85,163.74	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	68,281.37	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	96,505.26	
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)	335,300.41	6,331.69
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	60,116.00	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	85,163.74	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	68,281.37	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	96,505.26	
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)	350,578.19	6,571.24
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	60,116.00	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	85,163.74	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	68,281.37	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	96,505.26	
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC)	370,814.36	7,023.11
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	60,116.00	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	85,163.74	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	68,281.37	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	96,505.26	
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets (26 32 13 19)		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set	3,425.30	477.85
Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.		
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set	4,284.49	530.95
Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.		
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set	4,955.25	597.78
Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.		
26 32 13 26 AC To DC Electrical Conversion (26 32 13)		
26 32 13 26-0001 60 Hz AC Input 230 Or 460 Volts, 125 Volt DC Output (26 32 13 26)		
26 32 13 26-0002 EA 3 KW, 24 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	5,085.34	207.52
26 32 13 26-0003 EA 5 KW, 40 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,159.63	207.52
26 32 13 26-0004 EA 7.5 KW, 60 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,108.19	207.52
26 32 13 26-0005 EA 10 KW, 80 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,170.72	207.52
26 32 13 26-0006 EA 15 KW, 120 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,092.21	259.39
26 32 13 26-0007 EA 20 KW, 160 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,830.35	259.39
26 32 13 26-0008 EA 25 KW, 200 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,284.26	259.39
26 32 13 26-0009 EA 40 KW, 320 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,546.45	342.40
26 32 13 26-0010 EA 50 KW, 400 Amp, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,914.89	342.40



Electrical		26
Facility Electrical Power Generating And Storing Equipment		26 30
Packaged Generator Assemblies		26 32

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 32 13 26-0011	60 Hz AC Input, 230 Or 460 Volts, 250 Volts DC Output (26 32 13 26)				
26 32 13 26-0012	EA 3 KW, 12 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	5,863.07		207.52	
26 32 13 26-0013	EA 5 KW, 20 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	6,960.92		207.52	
26 32 13 26-0014	EA 7.5 KW, 30 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	7,938.98		207.52	
26 32 13 26-0015	EA 10 KW, 40 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,154.86		207.52	
26 32 13 26-0016	EA 15 KW, 60 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,255.53		259.39	
26 32 13 26-0017	EA 20 KW, 80 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,159.11		259.39	
26 32 13 26-0018	EA 25 KW, 100 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,487.88		259.39	
26 32 13 26-0019	EA 40 KW, 160 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,497.67		342.40	
26 32 13 26-0020	EA 50 KW, 200 Amp, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	13,242.17		342.40	
26 32 29	Rotary Converters (26 32)				
26 32 29 00-0001	460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)				
26 32 29 00-0002	EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	16,979.67		3,810.99	
26 32 29 00-0003	EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	19,057.62		3,810.99	
26 32 29 00-0004	EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	21,792.06		5,444.28	
26 32 29 00-0005	EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	25,154.23		5,444.28	
26 32 29 00-0006	EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	28,325.49		5,444.28	
26 32 29 00-0007	EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	33,605.83		8,166.41	
26 32 29 00-0008	EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	41,140.77		8,166.41	
26 32 29 00-0009	4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)				
26 32 29 00-0010	EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	57,763.48		10,888.55	
26 32 29 00-0011	EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	63,039.50		10,888.55	
26 32 29 00-0012	EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	75,707.77		14,155.12	
26 32 29 00-0013	EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	86,237.63		17,203.91	
26 32 29 00-0014	EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	101,679.29		17,203.91	
26 32 29 00-0015	EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	143,605.00		25,696.98	
26 32 29 00-0016	EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	149,486.92		25,696.98	
26 32 29 00-0017	EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	171,496.88		29,943.51	
26 33	Battery Equipment (26 30)				
26 33 13	Batteries (26 33)				
26 33 13 00-0001	Standby Batteries (26 33 13)				
26 33 13 00-0002	EA 12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	623.20		25.97	
26 33 13 00-0003	EA 12 Volt, 100 Amp Hours To 10.5 Volts Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket	671.61		25.97	
26 33 13 00-0004	EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	210.66		25.97	
26 33 13 00-0005	EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	193.21		25.97	
26 33 13 00-0006	EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	317.67		25.97	
26 33 13 00-0007	EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	365.91		25.97	
26 33 43	Battery Chargers (26 33)				
26 33 43 00-0001	Solid State Chargers, Single Phase (26 33 43)				
Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.					
26 33 43 00-0002	EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,147.90		592.86	
26 33 43 00-0003	EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,470.39		592.86	
26 33 43 00-0004	EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,713.15		592.86	
26 33 43 00-0005	EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt	2,889.16		701.94	
26 33 53	Static Uninterruptible Power Supply (26 33)				
26 33 53 00-0001	Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)				
26 33 53 00-0002	Single Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0001)				
26 33 53 00-0003	120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)				
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.					
26 33 53 00-0004	EA 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120)	833.57		102.72	
Note: Includes 12 minutes of battery backup at full load.					
26 33 53 00-0005	EA 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120)	993.69		119.84	
Note: Includes 6 minutes of battery backup at full load.					
26 33 53 00-0006	EA 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120)	1,217.24		136.96	
Note: Includes 5 minutes of battery backup at full load.					
26 33 53 00-0007	EA 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120)	1,477.67		154.09	
Note: Includes 5 minutes of battery backup at full load.					

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0008 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120).....	1,877.50	171.21
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009 EA 3 KVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120).....	3,078.14	239.69
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011 EA 3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208).....	3,026.04	239.69
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013 EA 5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208).....	4,477.67	273.92
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0014 EA 6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208).....	4,902.73	308.16
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0015 EA 8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208).....	7,271.82	376.64
Note: Includes 7 minutes of battery backup at full load.		
26 33 53 00-0016 EA 10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208).....	8,343.51	410.88
Note: Includes 4-1/2 minutes of battery backup at full load.		
26 33 53 00-0017 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	993.69	119.84
Note: Includes 11 minutes of battery backup at full load.		
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,217.24	136.96
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	1,493.06	154.09
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230).....	1,881.21	171.21
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230).....	3,089.71	239.69
Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230).....	4,303.68	273.92
Note: Includes 9 minutes of battery backup at full load.		
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230).....	5,264.47	308.16
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....	8,094.79	410.88
Note: Includes 3 minutes of battery backup at full load.		
26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)		
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....	519.42	31.13
Note: Rack mount or tower configuration.		
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....	675.93	31.13
Note: Rack mount or tower configuration.		
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....	658.51	31.13
Note: Rack mount or tower configuration.		
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....	452.00	31.13
Note: Rack mount or tower configuration.		
26 33 53 00-0031 EA Replacement Internal Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	719.10	102.72
26 33 53 00-0032 EA Replacement Internal Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	822.85	136.96



		Electrical	26
		Facility Electrical Power Generating And Storing Equipment	26 30
		Battery Equipment	26 33

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 33 53 00-0033	Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)			
26 33 53 00-0034	Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53 00-0033)			
26 33 53 00-0035	480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0034)			
Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.				
26 33 53 00-0036	EA 30 kVA, 24 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA030A0A6E)	21,294.90		890.25
	For 208/208 Volt AC, Add	795.73		
	For MBC 2-Breaker, Add	4,056.74		
	For 34 Minute Battery, Add	10,516.80		
26 33 53 00-0037	EA 40 kVA, 32 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA040A0A6E)	25,402.35		1,095.70
	For 208/208 Volt AC, Add	888.26		
	For MBC 2-Breaker, Add	4,551.96		
	For 23 Minute Battery, Add	11,336.88		
	For 37 Minute Battery, Add	12,949.12		
26 33 53 00-0038	EA 50 kVA, 40 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA050A0A6E)	28,145.31		1,369.62
	For 208/208 Volt AC, Add	1,003.24		
	For MBC 2-Breaker, Add	4,551.96		
	For 18 Minute Battery, Add	10,724.32		
	For 28 Minute Battery, Add	13,115.13		
	For 35 Minute Battery, Add	13,879.83		
26 33 53 00-0039	EA 65 kVA, 52 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA065A0A6E)	32,113.00		1,712.02
	For 208/208 Volt AC, Add	1,161.62		
	For MBC 2-Breaker, Add	5,573.39		
	For 12 Minute Battery, Add	11,805.89		
	For 19 Minute Battery, Add	13,489.55		
	For 25 Minute Battery, Add	14,246.09		
	For 30 Minute Battery, Add	18,876.20		
26 33 53 00-0040	EA 80 kVA, 64 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA080A0A6E)	34,380.41		2,054.43
	For 208/208 Volt AC, Add	1,161.62		
	For MBC 3-Breaker, Add	5,573.39		
	For 15 Minute Battery, Add	13,645.19		
	For 19 Minute Battery, Add	15,532.06		
	For 33 Minute Battery, Add	25,155.67		
26 33 53 00-0041	EA 100 kVA, 80 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA100A0A6E)	37,294.94		2,396.83
	For 208/208 Volt AC, Add	1,298.62		
	For MBC 3-Breaker, Add	6,009.58		
	For 11 Minute Battery, Add	14,464.86		
	For 17 Minute Battery, Add	21,503.86		
	For 25 Minute Battery, Add	26,037.45		
	For 35 Minute Battery, Add	29,349.20		
26 33 53 00-0042	EA 130 kVA, 104 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Npower™ 37SA130A0A6E)	40,792.78		2,739.24
	For 208/208 Volt AC, Add	1,366.18		
	For MBC 3-Breaker, Add	6,532.17		
	For 11 Minute Battery, Add	19,984.28		
	For 17 Minute Battery, Add	23,975.67		
	For 25 Minute Battery, Add	31,871.55		
	For 30 Minute Battery, Add	38,308.40		
26 33 53 00-0043	EA 225 kVA, 180 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Series 610, U39SA229AAAK)	51,428.34		3,081.65
	For Customer Alarm Interface, Add	393.61		
	For Alarm Status Contacts, Add	474.19		
	For Maintenance Bypass Interface, Add	554.77		
	For Communication Interface, Add	619.86		
	For Flush Mount Remote Status Panel, Add	781.03		
	For SNMP, Add	976.29		
	For Load Bus Sync Board, Add	1,456.68		
	For Input Filter with Disconnect, Add	1,907.94		
	For Isolation Transformer, Add	6,260.63		
	For Two Breaker Matching Maintenance Bypass Cabinet, Add	6,972.86		
	For Load Bus Sync Control Panel With Start Up, Add	7,000.13		
	For Three Breaker Matching Maintenance Bypass Cabinet, Add	7,530.73		
	For VRLA 12 Minute Battery, Add	33,731.89		
	For VRLA 14 Minute Battery, Add	36,277.06		
	For VRLA 22 Minute Battery, Add	45,439.42		
	For VRLA 37 Minute Battery, Add	67,505.46		

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0044 EA 300 kVA, 240 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Series 610, U39SA300AAAA).....	65,710.59	3,424.05
For Customer Alarm Interface, Add	393.61	
For Alarm Status Contacts, Add	474.19	
For Maintenance Bypass Interface, Add	554.77	
For Communication Interface, Add	619.86	
For Flush Mount Remote Status Panel, Add	781.03	
For SNMP, Add	976.29	
For Load Bus Sync Board, Add	1,456.68	
For Input Filter with Disconnect, Add	2,083.36	
For Load Bus Sync Control Panel With Start Up, Add	7,000.13	
For Isolation Transformer, Add	7,351.60	
For Two Breaker Matching Maintenance Bypass Cabinet, Add	8,410.94	
For Three Breaker Matching Maintenance Bypass Cabinet, Add	9,628.97	
For VRLA 14 Minute Battery, Add	45,501.68	
For VRLA 17 Minute Battery, Add	54,016.11	
For VRLA 26 Minute Battery, Add	67,578.09	
26 33 53 00-0045 EA 500 kVA, 400 KW, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® Series 610, U39SA500AAAA).....	102,534.48	4,108.85
For Customer Alarm Interface, Add	501.09	
For Alarm Status Contacts, Add	603.67	
For Maintenance Bypass Interface, Add	706.25	
For Communication Interface, Add	789.11	
For Flush Mount Remote Status Panel, Add	994.29	
For SNMP, Add	1,242.86	
For Load Bus Sync Board, Add	1,854.42	
For Input Filter with Disconnect, Add	5,900.12	
For Two Breaker Maintenance Bypass Switchboard, Add	8,199.69	
For Load Bus Sync Control Panel With Start Up, Add	8,965.92	
For 12 Pulse With Isolation Transformer, Add	11,178.39	
For Three Breaker Maintenance Bypass Switchboard, Add	12,468.80	
For VRLA 12 Minute Battery, Add	72,917.04	
26 33 53 00-0046 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)		
26 33 53 00-0047 EA Programmable Relay Board For Liebert® Npower™ Uninterruptible Power Supply Systems.....	474.44	51.88
26 33 53 00-0048 EA Network Interface Card For Liebert® Npower™ Uninterruptible Power Supply Systems.....	749.03	51.88
26 33 53 00-0049 EA Remote Status Panel With 100' Of Cable For Liebert® Npower™ Uninterruptible Power Supply Systems.....	1,487.66	103.76
26 33 53 00-0050 EA Slim Line Distribution Panel With Two 42 Pole Panels For Liebert® Npower™ Uninterruptible Power Supply Systems.....	4,714.84	415.03
26 33 53 00-0051 EA Replacement 12 Volt, 3 Phase, 134 Amp Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	328.87	51.88
26 33 53 00-0052 EA Replacement 12 Volt, 204 Watts, 3 Phase, 55 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	184.20	51.88
26 33 53 00-0053 EA Replacement 12 Volt, 257 Watts, 3 Phase, 65 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	205.31	51.88
26 33 53 00-0054 EA Replacement 12 Volt, 311 Watts, 3 Phase, 75 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	226.42	51.88
26 33 53 00-0055 EA Replacement 12 Volt, 374 Watts, 3 Phase, 90 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	264.42	51.88
26 33 53 00-0056 EA Replacement 12 Volt, 415 Watts, 3 Phase, 100 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	277.09	51.88
26 33 53 00-0057 EA Replacement 12 Volt, 493 Watts, 3 Phase, 135 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	342.53	51.88
26 33 53 00-0058 EA Replacement 12 Volt, 540 Watts, 3 Phase, 150 Amp Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	358.36	51.88
26 33 53 00-0059 Other Uninterruptable Power Supply Equipment (26 33 53)		
26 33 53 00-0060 EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	3,195.42	94.85
26 33 53 00-0061 EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	3,903.36	189.72
26 33 53 00-0062 EA GE Plug-In Breakers 1 Pole 15- 60A For UPS Distribution Panel.....	20.71	5.69
26 33 53 00-0063 EA GE Plug-In Breakers 2 Pole 15- 40A For UPS Distribution Panel.....	34.96	7.11
26 33 53 00-0064 EA GE Plug-In Breakers 2 Pole 50- 80A For UPS Distribution Panel.....	60.87	7.11
26 33 53 00-0065 EA GE Plug-In Breakers 3 Pole 15- 60A For UPS Distribution Panel.....	88.41	9.49
26 33 53 00-0066 EA GE Plug-In Breakers 3 Pole 70- 100A For UPS Distribution Panel.....	122.61	9.49
26 33 53 00-0067 EA Uninterrupted Power Supply Remote Status Panel.....	2,210.80	94.85
26 33 53 00-0068 EA Uninterrupted Power Supply Remote Contact Board.....	764.14	71.15
26 35 Power Filters And Conditioners (26 30)		
26 35 33 Power Factor Correction Equipment (26 35)		
26 35 33 00-0001 Power Factor Correction Capacitors (26 35 33)		
26 35 33 00-0002 EA Power Factor Correction Capacitors, 2.0 KVAC.....	349.42	
26 35 33 00-0003 EA Power Factor Correction Capacitors, 3.0 KVAC.....	386.99	
26 35 33 00-0004 EA Power Factor Correction Capacitors, 4.0 KVAC.....	424.57	
26 35 33 00-0005 EA Power Factor Correction Capacitors, 5.0 KVAC.....	460.63	
26 35 33 00-0006 EA Power Factor Correction Capacitors, 7.5 KVAC.....	565.84	
26 35 33 00-0007 EA Power Factor Correction Capacitors, 10.0 KVAC.....	691.33	
26 35 33 00-0008 EA Power Factor Correction Capacitors, 15.0 KVAC.....	1,067.80	
26 35 33 00-0009 EA Power Factor Correction Capacitors, 20.0 KVAC.....	1,296.99	



Electrical		26
Facility Electrical Power Generating And Storing Equipment		26 30
Power Filters And Conditioners		26 35

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 35 33 00-0010 EA Power Factor Correction Capacitors, 25.0 KVAC	1,675.72	
26 35 33 00-0011 EA Power Factor Correction Capacitors, 30.0 KVAC	1,905.66	
26 35 33 00-0012 EA Power Factor Correction Capacitors, 50.0 KVAC	3,343.92	
26 35 33 00-0013 EA Power Factor Correction Capacitors, 75.0 KVAC	5,027.91	
26 35 33 00-0014 EA Power Factor Correction Capacitors, 100.0 KVAC	6,704.38	
26 35 33 00-0015 EA Power Factor Correction Capacitors, Fuse Kit.....	311.10	
26 35 43 Static-Frequency Converters (26 35)		
26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)		
26 35 43 00-0002 EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	439.33	103.76
26 35 43 00-0003 EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	735.52	124.51
26 35 43 00-0004 EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	847.43	166.02
26 35 43 00-0005 EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,154.02	207.52
26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,576.61	269.77
26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,024.05	332.03
26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,521.16	394.28
26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,047.20	446.17
26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,556.88	539.54
26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,064.37	607.00
26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,571.85	674.44
26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,659.30	814.51
26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,295.44	980.52
26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	9,211.25	1,193.23
26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	10,559.82	1,395.55
26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	13,415.17	1,556.38
26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	20,040.22	1,763.90
26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	29,397.67	1,971.42
26 35 53 Voltage Regulators (26 35)		
26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)		
Note: For diesel motor generator sets mounted in switchgear cabinet.		
26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	4,985.68	1,649.77
26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	5,844.20	2,075.18
26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	6,634.75	2,469.46
26 36 Transfer Switches (26 30)		
26 36 13 Manual Transfer Switches (26 36)		
26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)		
26 36 13 00-0002 EA 30 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,124.98	181.57
26 36 13 00-0003 EA 60 Amp Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,312.29	225.57
26 36 23 Automatic Transfer Switches (26 36)		
26 36 23 00-0001 Automatic Transfer Switch (26 36 23)		
26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
Note: Programmable, 120/240 volt single phase, 3 wire.		
26 36 23 00-0003 EA 100 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	1,978.64	371.66
26 36 23 00-0004 EA 225 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	2,674.42	477.85
26 36 23 00-0005 EA 400 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	4,174.60	637.14
26 36 23 00-0006 EA 600 Amp, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	9,112.24	796.42
26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0008 EA 40 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40)	3,047.59	265.47
For NEMA 3R Enclosure, Add		616.95
For NEMA 4 Enclosure, Add		653.23
For NEMA 12 Enclosure, Add		653.23
26 36 23 00-0009 EA 70 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70)	3,525.74	318.57
For NEMA 3R Enclosure, Add		616.95
For NEMA 4 Enclosure, Add		653.23
For NEMA 12 Enclosure, Add		653.23
26 36 23 00-0010 EA 125 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125)	3,888.77	371.66
For NEMA 3R Enclosure, Add		616.95
For NEMA 4 Enclosure, Add		653.23
For NEMA 12 Enclosure, Add		653.23
26 36 23 00-0011 EA 150 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150)	4,615.82	424.76
For NEMA 3R Enclosure, Add		725.82
For NEMA 4 Enclosure, Add		943.56
For NEMA 12 Enclosure, Add		653.23
26 36 23 00-0012 EA 225 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)	5,266.32	477.85
For NEMA 3R Enclosure, Add		725.82
For NEMA 4 Enclosure, Add		943.56
For NEMA 12 Enclosure, Add		653.23

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0013 EA 260 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....	5,813.69	530.95
For NEMA 3R Enclosure, Add	725.82	
For NEMA 4 Enclosure, Add	943.56	
For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0014 EA 300 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....	6,092.22	584.05
For NEMA 3R Enclosure, Add	856.46	
For NEMA 4 Enclosure, Add	1,016.14	
For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0015 EA 400 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....	6,875.80	637.14
For NEMA 3R Enclosure, Add	856.46	
For NEMA 4 Enclosure, Add	1,016.14	
For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0016 EA 600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....	9,376.98	796.42
For NEMA 3R Enclosure, Add	856.46	
For NEMA 4 Enclosure, Add	1,016.14	
For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0017 EA 800 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....	10,553.27	955.71
For NEMA 3R Enclosure, Add	1,052.43	
For NEMA 4 Enclosure, Add	1,161.31	
For NEMA 12 Enclosure, Add	1,016.14	
26 36 23 00-0018 EA 1,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	13,675.77	1,274.27
For NEMA 3R Enclosure, Add	1,052.43	
For NEMA 4 Enclosure, Add	1,161.31	
For NEMA 12 Enclosure, Add	1,016.14	
26 36 23 00-0019 EA 1,200 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	17,609.10	1,380.47
For NEMA 3R Enclosure, Add	2,322.60	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	1,088.72	
26 36 23 00-0020 EA 1,600 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	18,835.71	1,592.85
For NEMA 3R Enclosure, Add	3,774.22	
For NEMA 4 Enclosure, Add	4,645.20	
For NEMA 12 Enclosure, Add	3,774.22	
26 36 23 00-0021 EA 2,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	21,528.12	1,805.23
For NEMA 3R Enclosure, Add	3,774.22	
For NEMA 4 Enclosure, Add	4,645.20	
For NEMA 12 Enclosure, Add	3,774.22	
26 36 23 00-0022 EA 3,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	26,025.96	2,229.98
For NEMA 3R Enclosure, Add	3,774.22	
26 36 23 00-0023 EA 4,000 Amp Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	44,551.09	2,654.75
For NEMA 3R Enclosure, Add	17,738.82	
26 36 23 00-0024 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0025 EA 150 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	15,570.88	2,017.61
For NEMA 3R Enclosure, Add	1,270.18	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	689.53	
26 36 23 00-0026 EA 225 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	16,263.82	2,123.80
For NEMA 3R Enclosure, Add	1,270.18	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	689.53	
26 36 23 00-0027 EA 260 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	17,051.17	2,229.98
For NEMA 3R Enclosure, Add	1,270.18	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	689.53	
26 36 23 00-0028 EA 300 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	18,919.91	2,283.08
For NEMA 3R Enclosure, Add	1,270.18	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	689.53	
26 36 23 00-0029 EA 400 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	21,675.22	2,336.18
For NEMA 3R Enclosure, Add	1,270.18	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	689.53	
26 36 23 00-0030 EA 600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	25,830.07	2,442.37
For NEMA 3R Enclosure, Add	1,270.18	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0031 EA 800 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	28,397.71	2,548.56
For NEMA 3R Enclosure, Add	1,306.46	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	798.40	
26 36 23 00-0032 EA 1,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	35,558.45	2,973.32
For NEMA 3R Enclosure, Add	1,306.46	
For NEMA 4 Enclosure, Add	1,306.46	
For NEMA 12 Enclosure, Add	798.40	
26 36 23 00-0033 EA 1,200 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	46,013.67	3,185.69
For NEMA 3R Enclosure, Add	5,806.49	
For NEMA 4 Enclosure, Add	7,258.11	
For NEMA 12 Enclosure, Add	5,806.49	
26 36 23 00-0034 EA 1,600 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	59,675.62	3,398.08
For NEMA 3R Enclosure, Add	12,338.79	
For NEMA 4 Enclosure, Add	12,338.79	
For NEMA 12 Enclosure, Add	11,496.85	



		Electrical	26
Facility Electrical Power Generating And Storing Equipment		26 30	26
Transfer Switches		26 36	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0035	EA	2,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	67,692.95	3,716.64
		For NEMA 3R Enclosure, Add	12,338.79	
		For NEMA 4 Enclosure, Add	12,338.79	
		For NEMA 12 Enclosure, Add	11,496.85	
26 36 23 00-0036	EA	3,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	107,468.12	4,247.59
		For NEMA 3R Enclosure, Add	15,242.03	
26 36 23 00-0037	EA	4,000 Amp Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	116,091.28	4,778.54
		For NEMA 3R Enclosure, Add	15,242.03	
26 36 23 00-0038 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure				
		(26 36 23 00-0001)		
26 36 23 00-0039	EA	40 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	4,878.83	265.47
		For NEMA 3R Enclosure, Add	362.91	
		For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0040	EA	70 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	5,293.78	318.57
		For NEMA 3R Enclosure, Add	362.91	
		For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0041	EA	125 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	5,708.05	371.66
		For NEMA 3R Enclosure, Add	362.91	
		For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0042	EA	150 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	6,842.99	424.76
		For Four Pole Circuit Breaker, Add	1,814.53	
		For NEMA 3R Enclosure, Add	362.91	
		For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0043	EA	225 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	8,868.26	477.85
		For Four Pole Circuit Breaker, Add	1,814.53	
		For NEMA 3R Enclosure, Add	362.91	
		For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0044	EA	250 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	9,454.22	530.95
		For Four Pole Circuit Breaker, Add	1,814.53	
		For NEMA 3R Enclosure, Add	362.91	
		For NEMA 12 Enclosure, Add	653.23	
26 36 23 00-0045	EA	300 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	9,849.87	584.05
		For Four Pole Circuit Breaker, Add	2,467.76	
		For NEMA 3R Enclosure, Add	943.56	
		For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0046	EA	400 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	11,133.18	637.14
		For Four Pole Circuit Breaker, Add	2,467.76	
		For NEMA 3R Enclosure, Add	943.56	
		For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0047	EA	600 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	13,521.89	796.42
		For Four Pole Circuit Breaker, Add	2,467.76	
		For NEMA 3R Enclosure, Add	943.56	
		For NEMA 12 Enclosure, Add	725.82	
26 36 23 00-0048	EA	800 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	14,157.20	955.71
		For Four Pole Circuit Breaker, Add	3,520.19	
		For NEMA 3R Enclosure, Add	1,625.82	
		For NEMA 12 Enclosure, Add	1,016.14	
26 36 23 00-0049	EA	1,000 Amp Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	16,789.95	1,274.27
		For Four Pole Circuit Breaker, Add	3,520.19	
		For NEMA 3R Enclosure, Add	1,625.82	
		For NEMA 12 Enclosure, Add	1,016.14	
26 36 23 00-0050 Accessories				
		(26 36 23)		
26 36 23 00-0051	EA	Auxiliary Contacts For Automatic Transfer Switch	168.39	
26 36 23 00-0052	EA	Battery Charger For Automatic Transfer Switch	1,379.05	
26 36 23 00-0053	EA	Elevator Relay Signal For Automatic Transfer Switch	500.81	
26 36 33 Non-Automatic Transfer Switches				
		(26 36 33)		
26 36 33 00-0001		Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure		
		(26 36 33)		
26 36 33 00-0002	EA	40 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	2,098.69	265.47
		For NEMA 3R Enclosure, Add	616.95	
		For NEMA 12 Enclosure, Add	580.65	
26 36 33 00-0003	EA	70 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	2,340.63	318.57
		For NEMA 3R Enclosure, Add	616.95	
		For NEMA 12 Enclosure, Add	580.65	
26 36 33 00-0004	EA	125 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	2,663.07	371.66
		For NEMA 3R Enclosure, Add	616.95	
		For NEMA 12 Enclosure, Add	580.65	

26 Electrical**26 30 Facility Electrical Power Generating And Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 33 00-0005 EA 150 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	2,531.50	424.76
For NEMA 3R Enclosure, Add	725.82	
For NEMA 12 Enclosure, Add	580.65	
26 36 33 00-0006 EA 225 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	4,033.96	477.85
For NEMA 3R Enclosure, Add	725.82	
For NEMA 12 Enclosure, Add	580.65	
26 36 33 00-0007 EA 260 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	4,531.42	530.95
For NEMA 3R Enclosure, Add	725.82	
For NEMA 12 Enclosure, Add	580.65	
26 36 33 00-0008 EA 300 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	5,036.20	584.05
For NEMA 3R Enclosure, Add	856.46	
For NEMA 12 Enclosure, Add	725.82	
26 36 33 00-0009 EA 400 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	5,882.33	637.14
For NEMA 3R Enclosure, Add	856.46	
For NEMA 12 Enclosure, Add	725.82	
26 36 33 00-0010 EA 600 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	7,750.68	796.42
For NEMA 3R Enclosure, Add	856.46	
For NEMA 12 Enclosure, Add	725.82	
26 36 33 00-0011 EA 800 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	8,757.30	955.71
For NEMA 3R Enclosure, Add	1,052.43	
For NEMA 12 Enclosure, Add	1,016.14	
26 36 33 00-0012 EA 1,000 Amp Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	11,576.36	1,274.27
For NEMA 3R Enclosure, Add	1,052.43	
For NEMA 12 Enclosure, Add	1,016.14	

26 40 Electrical And Cathodic Protection⁽²⁶⁾**26 41 Facility Lightning Protection^(26 40)****26 41 13 Lightning Protection For Structures^(26 41)****26 41 13 00-0001 Lightning Protection^(26 41 13)****26 41 13 00-0002 Air Terminals For Lightning Protection^(26 41 13 00-0001)****26 41 13 00-0003 Copper Lightning Protection Air Terminals^(26 41 13 00-0002)**

26 41 13 00-0004 EA 3/8" x 10" Copper Lightning Protection Air Terminal.....	55.14	10.38
26 41 13 00-0005 EA 1/2" x 12" Copper Lightning Protection Air Terminal.....	68.71	10.38
26 41 13 00-0006 EA 5/8" x 12" Copper Lightning Protection Air Terminal.....	88.91	10.38
26 41 13 00-0007 EA 1/2" x 24" Copper Lightning Protection Air Terminal.....	98.93	10.38
26 41 13 00-0008 EA 1/2" x 60" Copper Lightning Protection Air Terminal.....	190.87	20.75

26 41 13 00-0009 Aluminum Lightning Protection Air Terminals^(26 41 13 00-0002)

26 41 13 00-0010 EA 3/8" x 10" Aluminum Lightning Protection Air Terminal.....	33.21	10.38
26 41 13 00-0011 EA 1/2" x 12" Aluminum Lightning Protection Air Terminal.....	42.95	10.38
26 41 13 00-0012 EA 5/8" x 12" Aluminum Lightning Protection Air Terminal.....	52.13	10.38
26 41 13 00-0013 EA 1/2" x 24" Aluminum Lightning Protection Air Terminal.....	58.32	10.38
26 41 13 00-0014 EA 1/2" x 60" Aluminum Lightning Protection Air Terminal.....	107.30	20.75

26 41 13 00-0015 Terminal Bases For Lightning Protection^(26 41 13 00-0001)**26 41 13 00-0016 Copper Lightning Protection Terminal Bases^(26 41 13 00-0015)**

26 41 13 00-0017 EA Adhesive Base For Copper Lightning Protection Terminal.....	78.58	31.13
26 41 13 00-0018 EA Bolted Base For Copper Lightning Protection Terminal.....	105.63	41.50
26 41 13 00-0019 EA Hinged Base For Copper Lightning Protection Terminal.....	141.51	51.88
26 41 13 00-0020 EA Side Mounted Base For Copper Lightning Protection Terminal.....	105.63	41.50
26 41 13 00-0021 EA Offset Point Support For Copper Lightning Protection Terminal.....	112.00	41.50
26 41 13 00-0022 EA Concealed Base Assembly For Copper Lightning Protection Terminal.....	199.84	83.01
26 41 13 00-0023 EA 36" Tripod Base For 60" Copper Lightning Protection Terminal.....	139.84	51.88
26 41 13 00-0024 EA Intermediate Base For Copper Lightning Protection Terminal.....	78.58	31.13

26 41 13 00-0025 Aluminum Lightning Protection Terminal Bases^(26 41 13 00-0015)

26 41 13 00-0026 EA Adhesive Base For Aluminum Lightning Protection Terminal.....	64.52	31.13
26 41 13 00-0027 EA Bolted Base For Aluminum Lightning Protection Terminal.....	96.35	41.50
26 41 13 00-0028 EA Hinged Base For Aluminum Lightning Protection Terminal.....	124.43	51.88
26 41 13 00-0029 EA Side Mounted Base For Aluminum Lightning Protection Terminal.....	96.48	41.50
26 41 13 00-0030 EA Offset Point Support For Aluminum Lightning Protection Terminal.....	98.34	41.50
26 41 13 00-0031 EA Concealed Base Assembly For Aluminum Lightning Protection Terminal.....	182.06	83.01
26 41 13 00-0032 EA 36" Tripod Base For 60" Aluminum Lightning Protection Terminal.....	137.33	51.88
26 41 13 00-0033 EA Intermediate Base For Aluminum Lightning Protection Terminal.....	64.52	31.13

26 41 13 00-0034 Connectors^(26 41 13 00-0001)**26 41 13 00-0035 Copper Cable Connectors^(26 41 13 00-0034)**

26 41 13 00-0036 EA Thru Wall Cable Connector For Copper Lightning Protection System.....	158.38	51.88
26 41 13 00-0037 EA Thru Roof Adapter Assembly For Copper Lightning Protection System.....	217.06	83.01
26 41 13 00-0038 EA Beam Connector For Copper Lightning Protection System.....	142.67	51.88
26 41 13 00-0039 EA Double Bolt Cable Connector For Copper Lightning Protection System.....	33.74	10.38



Electrical		26	26
Electrical And Cathodic Protection		26 40	
Facility Lightning Protection		26 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 41 13 00-0040 EA Cable To Bar Connector For Copper Lightning Protection System.....	34.42	10.38
26 41 13 00-0041 EA Tee Connector For Copper Lightning Protection Terminal	104.97	31.13
26 41 13 00-0042 Aluminum Cable Connectors (26 41 13 00-0034)		
26 41 13 00-0043 EA Thru Wall Cable Connector For Aluminum Lightning Protection System.....	130.13	51.88
26 41 13 00-0044 EA Thru Roof Adapter Assembly For Aluminum Lightning Protection System.....	189.68	83.01
26 41 13 00-0045 EA Beam Connector For Aluminum Lightning Protection System.....	126.15	51.88
26 41 13 00-0046 EA Double Bolt Cable Connector For Aluminum Lightning Protection System.....	27.31	10.38
26 41 13 00-0047 EA Tee Connector For Aluminum Lightning Protection Terminal	81.31	31.13
26 41 13 00-0048 Bonding Plates (26 41 13 00-0001)		
26 41 13 00-0049 Copper Bonding Plates (26 41 13 00-0048)		
26 41 13 00-0050 EA 8" Square I Beam Bonding Plate For Copper Lightning Protection System.....	127.49	51.88
26 41 13 00-0051 EA 8" Square Purlin Bonding Plate For Copper Lightning Protection System.....	131.38	51.88
26 41 13 00-0052 EA 16" Square Bonding Plate For Copper Lightning Protection System	193.61	83.01
26 41 13 00-0053 Aluminum Bonding Plates (26 41 13 00-0048)		
26 41 13 00-0054 EA 8" Square I Beam Bonding Plate For Aluminum Lightning Protection System.....	117.53	51.88
26 41 13 00-0055 EA 8" Square Purlin Bonding Plate For Aluminum Lightning Protection System.....	119.65	51.88
26 41 13 00-0056 EA 16" Square Bonding Plate For Aluminum Lightning Protection System	176.63	83.01
26 41 13 00-0057 Cable Supports (26 41 13 00-0001)		
26 41 13 00-0058 Copper Cable Supports (26 41 13 00-0057)		
26 41 13 00-0059 EA Cable Supports For Copper Lightning Protection System	22.69	10.38
26 41 13 00-0060 EA Adhesive Cable Supports For Copper Lightning Protection System.....	23.92	10.38
26 41 13 00-0061 Aluminum Cable Supports (26 41 13 00-0057)		
26 41 13 00-0062 EA Cable Supports For Aluminum Lightning Protection System	22.40	10.38
26 41 13 00-0063 EA Adhesive Cable Supports For Aluminum Lightning Protection System.....	22.80	10.38
26 41 13 00-0064 Bonding Straps (26 41 13 00-0001)		
26 41 13 00-0065 Copper Bonding Straps (26 41 13 00-0064)		
26 41 13 00-0066 EA 3/4" x 9-1/2" Flex Braided Strap For Copper Lightning Protection System.....	66.88	31.13
26 41 13 00-0067 Aluminum Bonding Straps (26 41 13 00-0064)		
26 41 13 00-0068 EA 3/4" x 9-1/2" Flex Braided Strap For Aluminum Lightning Protection System.....	60.01	31.13
26 41 13 00-0069 Accessories For Lightning Protection (26 41 13 00-0001)		
See CSI section 26 05 26 00-0001 for conductors straps and conduit jumpers.		
26 41 13 00-0070 Copper Adapters (26 41 13 00-0069)		
26 41 13 00-0071 EA Swivel Adapters For Copper Lightning Protection System.....	24.93	5.19
26 41 13 00-0072 Aluminum Adapters (26 41 13 00-0069)		
26 41 13 00-0073 EA Swivel Adapters For Aluminum Lightning Protection System	18.32	5.19
26 41 13 00-0074 EA Floor Ground Receptacle For Aluminum Lightning Protection System	160.00	51.88
26 41 23 Lightning Protection Surge Arresters And Suppressors (26 41)		
26 41 23 00-0001 Surge And Lightning Arrestors (26 41 23)		
26 41 23 00-0002 Metal Top Intermediate Type IMX (26 41 23 00-0001)		
Note: For outdoor construction, single phase.		
26 41 23 00-0003 EA 3 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	965.42	222.01
26 41 23 00-0004 EA 4.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,046.52	222.01
26 41 23 00-0005 EA 6 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,046.52	222.01
26 41 23 00-0006 EA 7.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,197.15	222.01
26 41 23 00-0007 EA 9 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,197.15	222.01
26 41 23 00-0008 EA 10 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,322.28	222.01
26 41 23 00-0009 EA 12 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,322.28	222.01
26 41 23 00-0010 EA 15 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,804.06	277.52
26 41 23 00-0011 EA 18 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,868.94	277.52
26 41 23 00-0012 EA 21 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,053.72	333.03
26 41 23 00-0013 EA 24 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	2,220.57	333.03
26 41 23 00-0014 EA 27 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	2,640.00	333.03

26 Electrical**26 40 Electrical And Cathodic Protection****26 41 Facility Lightning Protection**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 41 23 00-0015	Porcelain Top Intermediate Type IMX (26 41 23 00-0001)			
Note: For cubicle mounting, single phase.				
26 41 23 00-0016	EA	3 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	965.42	222.01
26 41 23 00-0017	EA	4.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,046.52	222.01
26 41 23 00-0018	EA	6 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,046.52	222.01
26 41 23 00-0019	EA	7.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,197.15	222.01
26 41 23 00-0020	EA	9 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,197.15	222.01
26 41 23 00-0021	EA	10 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,322.28	222.01
26 41 23 00-0022	EA	12 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,322.28	222.01
26 41 23 00-0023	EA	15 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,804.06	277.52
26 41 23 00-0024	EA	18 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,868.94	277.52
26 41 23 00-0025	EA	21 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,053.72	333.03
26 41 23 00-0026	EA	24 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,220.57	333.03
26 41 23 00-0027	EA	27 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,640.00	333.03
26 41 23 00-0028	IMX Accessories (26 41 23 00-0001)			
26 41 23 00-0029	EA	1 Crossarm Bracket Reversible 3-27 KV IMX.....	798.57	222.01
26 41 23 00-0030	EA	Single Unit Horizontal Pole Mounted Bracket (IMX).....	789.31	222.01
26 41 23 00-0031	EA	3 Unit Horizontal Pole Mounted Bracket (IMX)	719.88	222.01
26 41 23 00-0032	Lightning Arrestor And Cutouts (26 41 23 00-0001)			
26 41 23 00-0033	EA	3 KV La Distribution Class, Lightning Arrestor	539.04	222.01
26 41 23 00-0034	EA	3 KV La Interior Class, Lightning Arrestor	1,027.15	222.01
26 41 23 00-0035	EA	3 KV La Station Class, Lightning Arrestor	965.42	222.01
26 41 23 00-0036	EA	9 KV La Distribution Class, Lightning Arrestor	590.02	222.01
26 41 23 00-0037	EA	9 KV La Interior Class, Lightning Arrestor	1,162.30	222.01
26 41 23 00-0038	EA	9 KV La Station Class, Lightning Arrestor	1,197.15	222.01
26 41 23 00-0039	EA	5 KV Enclosed Fused Cutout.....	669.27	222.01
26 41 23 00-0040	EA	15 KV Open Fused Cutout.....	724.20	277.52
26 41 23 00-0041	EA	18 KV La Distribution Class, Lightning Arrestor	563.20	222.01
26 41 23 00-0042	EA	18 KV La Interior Class, Lightning Arrestor	1,234.53	222.01
26 43	Surge Protective Devices (26 40)			
26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)			
26 43 13 00-0001	25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)			
Note: Liebert LPL				
26 43 13 00-0002	EA	120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	204.81	25.94
26 43 13 00-0003	EA	208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	220.33	25.94
26 43 13 00-0004	EA	240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	230.70	31.13
26 43 13 00-0005	EA	277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	190.00	20.75
26 43 13 00-0006	EA	480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	230.70	31.13
26 43 13 00-0007	50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)			
Note: Liebert LPL				
26 43 13 00-0008	EA	120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	281.28	25.94
26 43 13 00-0009	EA	208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	300.51	31.13
26 43 13 00-0010	EA	208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	290.14	25.94
26 43 13 00-0011	EA	480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	300.51	31.13
26 43 13 00-0012	100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression (26 43 13)			
Note: Liebert LPL				
26 43 13 00-0013	EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	338.90	25.94
26 43 13 00-0014	EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	358.14	31.13
26 43 13 00-0015	EA	277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	315.23	20.75
26 43 13 00-0016	EA	480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	358.14	31.13
26 43 13 00-0017	100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)			
Note: Liebert LPM				
26 43 13 00-0018	EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	398.75	25.94
26 43 13 00-0019	EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	450.12	31.13
26 43 13 00-0020	EA	277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	376.18	20.75
26 43 13 00-0021	160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)			
Note: Liebert LPM				
26 43 13 00-0022	EA	208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	699.47	31.13
26 43 13 00-0023	EA	208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	689.10	25.94
26 43 13 00-0024	EA	480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	699.47	31.13
26 43 13 00-0025	250 kA, 500 Joule Transient Voltage Surge Suppression (26 43 13)			
Note: Liebert Interceptor Hybrid.				
26 43 13 00-0026	EA	LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	4,013.84	51.88



Electrical		26
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Surge Protective Devices		26 43

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0027	EA	Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	4,900.40	51.88
26 43 13 00-0028		Class 1310 Transient Voltage Surge Suppression (26 43 13)		
		Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029		NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0029)		
		Note: Square D. EMA series.		
26 43 13 00-0030	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,265.96	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0031	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,604.03	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0032	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,253.38	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0033	EA	320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,979.75	207.52
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0034	EA	480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	10,322.42	285.34
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0035	EA	120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,406.34	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0036	EA	160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,758.24	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0037	EA	240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,491.62	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0038	EA	320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,289.16	207.52
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0039	EA	480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	10,799.88	285.34
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0040	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,406.34	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0041	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,758.24	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0042	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,491.57	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0043	EA	320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,289.16	207.52
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0044	EA	480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	10,799.88	285.34
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0045	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,546.74	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0046	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,914.43	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0047	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,731.82	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0048	EA	320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,600.61	207.52
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0049	EA	480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,279.28	285.34
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0050	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	3,709.84	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0051	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,076.58	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0052	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,982.90	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0053	EA	320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,926.82	207.52
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0054	EA	480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	11,102.80	285.34
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0055		NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶		
		^{43 13 00-0028)} Note: Square D EBA series.		
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,554.26	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,084.11	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0058	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,508.05	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0059	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,634.33	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0060	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,202.73	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0061	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,663.24	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0062	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,634.33	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0063	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,202.73	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0064	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,663.24	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0065	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,736.15	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0066	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,330.26	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0067	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,861.93	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0068	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	2,842.92	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0069	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,465.68	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0070	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,070.50	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0071		NEMA 4X Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-0028)		
		Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,200.11	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0073	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,538.18	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0074	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,187.52	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0075	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,340.49	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0076	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,692.38	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0077	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,425.76	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0078	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,340.49	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0079	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,692.38	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0080	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,425.71	181.57
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0081	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,480.88	134.89
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	
26 43 13 00-0082	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	4,848.57	155.64
		For Integral Disconnect, Add	265.68	
		For Surge Counter, Add	203.04	



		Electrical	26
		Electrical And Cathodic Protection	26 40
		Surge Protective Devices	26 43

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... For Integral Disconnect, Add For Surge Counter, Add	6,665.97 265.68 203.04	181.57
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... For Integral Disconnect, Add For Surge Counter, Add	4,643.99 265.68 203.04	134.89
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... For Integral Disconnect, Add For Surge Counter, Add	5,010.73 265.68 203.04	155.64
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... For Integral Disconnect, Add For Surge Counter, Add	6,917.05 265.68 203.04	181.57
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,488.41 265.68 203.04	134.89
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,018.26 265.68 203.04	155.64
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,442.19 265.68 203.04	181.57
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,568.48 265.68 203.04	134.89
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,136.88 265.68 203.04	155.64
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,597.38 265.68 203.04	181.57
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,568.48 265.68 203.04	134.89
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,136.88 265.68 203.04	155.64
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,597.38 265.68 203.04	181.57
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,670.30 265.68 203.04	134.89
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,264.40 265.68 203.04	155.64
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,796.07 265.68 203.04	181.57
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	3,777.06 265.68 203.04	134.89
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,399.82 265.68 203.04	155.64
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,004.65 265.68 203.04	181.57

26 50 Lighting⁽²⁶⁾

Note: Light fixtures include testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 51 Interior Lighting^(26 50)

26 51 13 Interior Lighting Fixtures, Lamps, And Ballasts^(26 51)

26 51 13 00-0001 Interior Lighting Accessories^(26 51 13)

26 51 13 00-0002 LF For Each Additional LF Of Interior Lighting Wire Whip, Add.....	0.92	
Note: Wire whips are included with interior lighting fixtures, where necessary, up to six feet in length. Use this task for additional required whip length. For example, if the fixture requires a 15' wire whip then use 9 LF of this task to reach required length.		

26 51 13 00-0003 Lighting Accessories^(26 51 13)

26 51 13 00-0004 Modular Flexible Wiring Systems^(26 51 13 00-0003)

26 51 13 00-0005 EA 10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10)	59.97	5.60
26 51 13 00-0006 EA 15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15)	67.47	5.60
26 51 13 00-0007 EA 20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20)	80.35	5.60

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0008 EA 15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15)	67.47	5.60
26 51 13 00-0009 EA 3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E)	64.03	5.60
26 51 13 00-0010 EA 13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13)	89.98	5.60
26 51 13 00-0011 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M)	51.89	5.60
26 51 13 00-0012 EA 3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E)	57.63	5.60
26 51 13 00-0013 EA 7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07)	70.11	5.60
26 51 13 00-0014 EA 7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07)	70.11	5.60
26 51 13 00-0015 EA 7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07)	71.19	5.60
26 51 13 00-0016 EA 7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07)	70.79	5.60
26 51 13 00-0017 EA 7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07)	70.79	5.60
26 51 13 00-0018 EA 15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15)	80.45	5.60
26 51 13 00-0019 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D)	40.27	5.60
26 51 13 00-0020 EA 3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E)	38.01	5.60
26 51 13 00-0021 EA 3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E)	38.80	5.60
26 51 13 00-0022 EA 3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E)	47.16	5.60
26 51 13 00-0023 EA 15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15)	59.97	5.60
26 51 13 00-0024 EA 15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15)	61.33	5.60
26 51 13 00-0025 EA Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E)	49.23	5.60
26 51 13 00-0026 EA 3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E)	38.01	5.60
26 51 13 00-0027 EA Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning	46.68	
26 51 13 00-0028 Fluorescent Fixtures (26 51 13)		
26 51 13 00-0029 Surface Mounted, Wraparound Fluorescent Fixtures (26 51 13 00-0028)		
26 51 13 00-0030 6" x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 13 00-0029)		
26 51 13 00-0031 EA 1 T8 Lamp, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture	107.69	29.69
26 51 13 00-0032 EA 2 T8 Lamps, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture	118.83	29.69
26 51 13 00-0033 6" x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 13 00-0029)		
26 51 13 00-0034 EA 1 T8 Lamp, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture	121.40	30.92
26 51 13 00-0035 EA 2 T8 Lamps, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture	135.06	30.92
26 51 13 00-0036 1' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 13 00-0029)		
26 51 13 00-0037 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	144.87	34.72
26 51 13 00-0038 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	168.78	34.72
26 51 13 00-0039 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	194.92	34.72
26 51 13 00-0040 2' x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 13 00-0029)		
26 51 13 00-0041 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	121.97	37.94
26 51 13 00-0042 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	137.37	37.94
26 51 13 00-0043 2' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 13 00-0029)		
26 51 13 00-0044 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	184.25	44.20
26 51 13 00-0045 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	197.61	44.20
26 51 13 00-0046 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	221.49	44.20
26 51 13 00-0047 Surface Mounted, Box Type Fluorescent Fixtures (26 51 13 00-0028) Note: Includes prismatic lens.		
26 51 13 00-0048 1' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 13 00-0047)		
26 51 13 00-0049 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture	144.20	34.43
26 51 13 00-0050 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture	219.95	34.43
26 51 13 00-0051 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture	248.74	34.43
26 51 13 00-0052 2' x 2', Surface Mounted, Box Type Fluorescent Fixtures (26 51 13 00-0047)		
26 51 13 00-0053 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture	209.97	37.94
26 51 13 00-0054 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture	227.30	37.94
26 51 13 00-0055 EA 4 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture	239.86	37.94
26 51 13 00-0056 2' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 13 00-0047)		
26 51 13 00-0057 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	219.67	44.20
26 51 13 00-0058 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	239.60	44.20
26 51 13 00-0059 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	251.34	44.20
26 51 13 00-0060 EA 6 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	270.05	44.20
26 51 13 00-0061 4' x 4', Surface Mounted, Box Type Fluorescent Fixtures (26 51 13 00-0047)		
26 51 13 00-0062 EA 4 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture	415.89	56.92
26 51 13 00-0063 EA 6 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture	425.46	56.92
26 51 13 00-0064 EA 8 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture	691.96	56.92



Electrical		26
Lighting		26 50
Interior Lighting		26 51

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0065		Recessed Fluorescent Fixtures (26 51 13 00-0028)		
26 51 13 00-0066		Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0065)		
26 51 13 00-0067		1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 13 00-0066)		
26 51 13 00-0068	EA	2 T8 Lamps, 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	134.24 20.06	29.69
26 51 13 00-0069		1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 13 00-0066)		
26 51 13 00-0070	EA	2 T8 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	174.19 23.48	34.43
26 51 13 00-0071	EA	2 T5 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	289.42 23.48	34.43
26 51 13 00-0072		2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 13 00-0066)		
26 51 13 00-0073	EA	2 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	175.56 25.61	37.94
26 51 13 00-0074	EA	3 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	196.81 25.61	37.94
26 51 13 00-0075	EA	4 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	199.68 25.62	37.94
26 51 13 00-0076	EA	2 T5 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	213.86 25.61	37.94
26 51 13 00-0077		2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture (26 51 13 00-0066)		
26 51 13 00-0078	EA	2 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	179.57 29.88	44.20
26 51 13 00-0079	EA	3 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	235.45 29.88	44.20
26 51 13 00-0080	EA	4 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	240.24 29.88	44.20
26 51 13 00-0081	EA	6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	267.50 29.88	44.20
26 51 13 00-0082	EA	2 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	227.09 29.88	44.20
26 51 13 00-0083	EA	3 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	297.32 29.88	44.20
26 51 13 00-0084	EA	4 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	305.28 29.88	44.20
26 51 13 00-0085		Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0065)		
26 51 13 00-0086		1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0085)		
26 51 13 00-0087	EA	1 T8 Lamp, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	151.03 20.06	29.69
26 51 13 00-0088	EA	2 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	153.90 20.06	29.69
26 51 13 00-0089	EA	3 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	176.41 20.06	29.69
26 51 13 00-0090		1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0085)		
26 51 13 00-0091	EA	1 T8 Lamp, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	173.89 23.48	34.43
26 51 13 00-0092	EA	2 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	178.68 23.48	34.43
26 51 13 00-0093	EA	3 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	199.61 23.48	34.43
26 51 13 00-0094		2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0085)		
26 51 13 00-0095	EA	2 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	179.84 25.62	37.94
26 51 13 00-0096	EA	3 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	182.70 25.62	37.94
26 51 13 00-0097	EA	4 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	204.89 25.62	37.94
26 51 13 00-0098		2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0085)		
26 51 13 00-0099	EA	2 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	179.57 29.88	44.20
26 51 13 00-0100	EA	3 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	205.07 29.88	44.20
26 51 13 00-0101	EA	4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	229.43 29.88	44.20
26 51 13 00-0102	EA	6 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture For Drywall Or Plaster Ceilings, Add	258.66 29.88	44.20

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 51 13 00-0103	Direct-Indirect, Recessed Fluorescent Fixtures (26 51 13 00-0065)				
26 51 13 00-0104	1' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 13 00-0103)				
26 51 13 00-0105	EA 1 T8 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	297.14		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0106	EA 2 T8 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	301.93		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0107	EA 1 T5 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	346.79		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0108	EA 2 T5 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	354.75		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0109	2' x 2', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 13 00-0103)				
26 51 13 00-0110	EA 2 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture.....	244.84		37.94	
	For Drywall Or Plaster Ceilings, Add	25.61			
26 51 13 00-0111	EA 3 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture.....	270.04		37.94	
	For Drywall Or Plaster Ceilings, Add	25.61			
26 51 13 00-0112	EA 2 T5 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture.....	326.37		37.94	
	For Drywall Or Plaster Ceilings, Add	25.61			
26 51 13 00-0113	2' x 4', Direct-Indirect, Recessed Fluorescent Fixtures (26 51 13 00-0103)				
26 51 13 00-0114	EA 2 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	278.81		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0115	EA 3 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	336.66		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0116	EA 1 T5 Lamp, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	349.91		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0117	EA 2 T5 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture.....	383.27		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0118	Volumetric, Recessed Fluorescent Fixtures (26 51 13 00-0065)				
26 51 13 00-0119	1' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 13 00-0118)				
26 51 13 00-0120	EA 2 T8 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture.....	236.67		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0121	EA 2 T5 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture.....	303.43		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0122	2' x 2', Volumetric, Recessed Fluorescent Fixtures (26 51 13 00-0118)				
26 51 13 00-0123	EA 2 T8 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture.....	238.74		37.94	
	For Drywall Or Plaster Ceilings, Add	25.61			
26 51 13 00-0124	EA 2 T5 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture.....	268.60		37.94	
	For Drywall Or Plaster Ceilings, Add	25.61			
26 51 13 00-0125	2' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 13 00-0118)				
26 51 13 00-0126	EA 2 T8 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture.....	266.67		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0127	EA 2 T5 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture.....	267.17		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0128	Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0065)				
26 51 13 00-0129	1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0128)				
26 51 13 00-0130	EA 2 T8 Lamps, 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture.....	227.76		34.43	
	For Drywall Or Plaster Ceilings, Add	23.48			
26 51 13 00-0131	2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0128)				
26 51 13 00-0132	EA 2 T8 Lamps, 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture.....	219.25		37.94	
	For Drywall Or Plaster Ceilings, Add	25.61			
26 51 13 00-0133	2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 13 00-0128)				
26 51 13 00-0134	EA 2 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture.....	266.18		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0135	EA 3 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture.....	337.08		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			
26 51 13 00-0136	EA 4 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture.....	304.17		44.20	
	For Drywall Or Plaster Ceilings, Add	29.88			



		Electrical	26	26
		Lighting	26 50	
		Interior Lighting	26 51	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 51 13 00-0137	Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures ^(26 51 13 00-0065)			
26 51 13 00-0138	1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures ^(26 51 13 00-0137)			
26 51 13 00-0139	EA 2 T8 Lamps, 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	218.69		34.43
		23.48		
26 51 13 00-0140	2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures ^(26 51 13 00-0137)			
26 51 13 00-0141	EA 2 T8 Lamps, 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	219.03		37.94
		25.61		
26 51 13 00-0142	2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures ^(26 51 13 00-0137)			
26 51 13 00-0143	EA 2 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	271.27		44.20
		29.88		
26 51 13 00-0144	EA 3 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	277.83		44.20
		29.88		
26 51 13 00-0145	EA 4 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	286.37		44.20
		29.88		
26 51 13 00-0146	Striplight Fluorescent Fixtures ^(26 51 13 00-0028)			
26 51 13 00-0147	1 Lamp Cross Section, Striplight Fluorescent Fixtures ^(26 51 13 00-0146)			
26 51 13 00-0148	EA 1 T8 Lamp, 1-1/2' Length, Striplight Fluorescent Fixture	104.58		28.46
26 51 13 00-0149	EA 1 T8 Lamp, 2' Length, Striplight Fluorescent Fixture.....	122.61		28.46
26 51 13 00-0150	EA 1 T8 Lamp, 3' Length, Striplight Fluorescent Fixture.....	123.97		31.58
26 51 13 00-0151	EA 1 T8 Lamp, 4' Length, Striplight Fluorescent Fixture.....	130.10		34.72
26 51 13 00-0152	EA 1 T8 Lamp, 8' Length, Striplight Fluorescent Fixture.....	154.54		37.57
26 51 13 00-0153	2 Lamp Cross Section, Striplight Fluorescent Fixtures ^(26 51 13 00-0146)			
26 51 13 00-0154	EA 2 T8 Lamps, 2' Length, Striplight Fluorescent Fixture.....	126.29		31.58
26 51 13 00-0155	EA 2 T8 Lamps, 3' Length, Striplight Fluorescent Fixture.....	132.11		34.72
26 51 13 00-0156	EA 2 T8 Lamps, 4' Length, Striplight Fluorescent Fixture.....	139.63		37.94
26 51 13 00-0157	3 Lamp Cross Section, Striplight Fluorescent Fixtures ^(26 51 13 00-0146)			
26 51 13 00-0158	EA 3 T8 Lamps, 2' Length, Striplight Fluorescent Fixture.....	171.40		31.58
26 51 13 00-0159	EA 3 T8 Lamps, 3' Length, Striplight Fluorescent Fixture.....	169.92		34.72
26 51 13 00-0160	EA 3 T8 Lamps, 4' Length, Striplight Fluorescent Fixture.....	178.82		37.94
26 51 13 00-0161	Display Case Fluorescent Fixtures ^(26 51 13 00-0146)			
26 51 13 00-0162	EA 1 T8 Lamp, 1-1/2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU15W)	83.74		31.13
26 51 13 00-0163	EA 1 T8 Lamp, 2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU20W).....	101.31		31.13
26 51 13 00-0164	EA 1 T8 Lamp, 3' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU30W).....	110.21		36.31
26 51 13 00-0165	EA 1 T8 Lamp, 4' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU40W).....	114.01		36.31
26 51 13 00-0166	Industrial Fluorescent Fixtures ^(26 51 13 00-0028)			
26 51 13 00-0167	1 Lamp Cross Section, Industrial Fluorescent Fixtures ^(26 51 13 00-0166)			
26 51 13 00-0168	EA 1 T8 Lamp, 2' Length, Industrial Fluorescent Fixture.....	139.32		28.46
26 51 13 00-0169	EA 1 T8 Lamp, 4' Length, Industrial Fluorescent Fixture.....	152.64		34.72
26 51 13 00-0170	EA 1 T8 Lamp, 8' Length, Industrial Fluorescent Fixture.....	262.10		44.20
26 51 13 00-0171	2 Lamp Cross Section, Industrial Fluorescent Fixtures ^(26 51 13 00-0166)			
26 51 13 00-0172	EA 2 T8 Lamps, 2' Length, Industrial Fluorescent Fixture	146.92		31.58
26 51 13 00-0173	EA 2 T8 Lamps, 4' Length, Industrial Fluorescent Fixture	162.19		37.94
26 51 13 00-0174	EA 2 T8 Lamps, 8' Length, Industrial Fluorescent Fixture	271.68		44.20
26 51 13 00-0175	3 Lamp Cross Section, Industrial Fluorescent Fixtures ^(26 51 13 00-0166)			
26 51 13 00-0176	EA 3 T8 Lamps, 2' Length, Industrial Fluorescent Fixture	152.73		31.58
26 51 13 00-0177	EA 3 T8 Lamps, 4' Length, Industrial Fluorescent Fixture	169.19		37.94
26 51 13 00-0178	EA 3 T8 Lamps, 8' Length, Industrial Fluorescent Fixture	247.85		44.20
26 51 13 00-0179	4 Lamp Cross Section, Industrial Fluorescent Fixtures ^(26 51 13 00-0166)			
26 51 13 00-0180	EA 4 T8 Lamps, 4' Length, Industrial Fluorescent Fixture	219.07		37.94
26 51 13 00-0181	EA 4 T8 Lamps, 8' Length, Industrial Fluorescent Fixture	316.38		44.20

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0182		Flanged Fluorescent Fixture (26 51 13 00-0028) Note: For plaster or drywall application. With electronic ballast.		
26 51 13 00-0183	EA	2 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	220.16	56.92
26 51 13 00-0184	EA	3 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	254.43	56.92
26 51 13 00-0185	EA	4 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	259.22	56.92
26 51 13 00-0186		Undercabinet Fluorescent Fixtures (26 51 13 00-0028)		
26 51 13 00-0187	EA	1 T5 Lamp, 12-3/16" Length, Slimline Undercabinet Fluorescent Fixture	83.57	25.61
26 51 13 00-0188	EA	1 T5 Lamp, 21-3/16" Length, Slimline Undercabinet Fluorescent Fixture	98.71	31.30
26 51 13 00-0189	EA	2 T5 Lamps, 24-7/16" Length, Slimline Undercabinet Fluorescent Fixture	97.59	31.30
26 51 13 00-0190	EA	1 T5 Lamp, 33-7/16" Length, Slimline Undercabinet Fluorescent Fixture	114.42	34.15
26 51 13 00-0191	EA	2 T5 Lamps, 42-7/16" Length, Slimline Undercabinet Fluorescent Fixture	133.15	39.84
26 51 13 00-0192		Corner Mounted, Fluorescent Fixtures (26 51 13 00-0028) Note: Includes acrylic drop dish diffuser.		
26 51 13 00-0193		2' Length, Corner Mounted, Fluorescent Fixtures (26 51 13 00-0192)		
26 51 13 00-0194	EA	1 T8 Lamp, 2' Length, Corner Mounted, Fluorescent Fixture	137.35	28.46
26 51 13 00-0195	EA	2 T8 Lamps, 2' Length, Corner Mounted, Fluorescent Fixture	151.21	28.46
26 51 13 00-0196		3' Length, Corner Mounted, Fluorescent Fixtures (26 51 13 00-0192)		
26 51 13 00-0197	EA	1 T8 Lamp, 3' Length, Corner Mounted, Fluorescent Fixture	154.92	29.88
26 51 13 00-0198	EA	2 T8 Lamps, 3' Length, Corner Mounted, Fluorescent Fixture	168.20	29.88
26 51 13 00-0199		4' Length, Corner Mounted, Fluorescent Fixtures (26 51 13 00-0192)		
26 51 13 00-0200	EA	1 T8 Lamp, 4' Length, Corner Mounted, Fluorescent Fixture	155.27	31.30
26 51 13 00-0201	EA	2 T8 Lamps, 4' Length, Corner Mounted, Fluorescent Fixture	170.45	31.30
26 51 13 00-0202		Wall Bracket, Fluorescent Fixtures (26 51 13 00-0028)		
26 51 13 00-0203		Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 13 00-0202) Note: Includes extruded aluminum housing with brushed finish, acrylic diffuser and solid-state electronic ballast.		
26 51 13 00-0204		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 13 00-0203)		
26 51 13 00-0205	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	230.97	47.73
26 51 13 00-0206	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	233.41	47.73
26 51 13 00-0207		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 13 00-0203)		
26 51 13 00-0208	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	313.21	47.73
26 51 13 00-0209	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	316.62	47.73
26 51 13 00-0210		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 13 00-0203)		
26 51 13 00-0211	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	327.31	47.73
26 51 13 00-0212	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	329.75	47.73
26 51 13 00-0213		Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 13 00-0202) Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 13 00-0214		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 13 00-0213)		
26 51 13 00-0215	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	359.77	47.73
26 51 13 00-0216	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	362.21	47.73
26 51 13 00-0217		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 13 00-0213)		
26 51 13 00-0218	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	287.36	47.73
26 51 13 00-0219	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	290.76	47.73
26 51 13 00-0220		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 13 00-0213)		
26 51 13 00-0221	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	328.39	47.73
26 51 13 00-0222	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	330.83	47.73
26 51 13 00-0223		Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 13 00-0202) Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 13 00-0224		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 13 00-0223)		
26 51 13 00-0225	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	219.00	47.73
26 51 13 00-0226	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	221.44	47.73



		Electrical	26
		Lighting	26 50
		Interior Lighting	26 51
			26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0227 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 13 00-0223)		
26 51 13 00-0228 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	219.97	47.73
26 51 13 00-0229 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	223.38	47.73
26 51 13 00-0230 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 13 00-0223)		
26 51 13 00-0231 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	209.83	47.73
26 51 13 00-0232 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	212.27	47.73
26 51 13 00-0233 Low Occupancy, Industrial Fluorescent Fixtures (26 51 13 00-0028)		
26 51 13 00-0234 EA 1 T8 Lamp, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	301.53	34.72
26 51 13 00-0235 EA 2 T8 Lamps, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP)	306.28	37.94
26 51 13 00-0236 Accessories And Modifiers For Fluorescent Fixtures (26 51 13 00-0028)		
26 51 13 00-0237 Lens Modifications (26 51 13 00-0236)		
26 51 13 00-0238 EA For 1' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	18.84	
26 51 13 00-0239 EA For 1' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	23.27	
26 51 13 00-0240 EA For 2' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	24.38	
26 51 13 00-0241 EA For 2' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	26.60	
26 51 13 00-0242 EA For 4' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	32.14	
26 51 13 00-0243 EA For 1' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	7.76	
26 51 13 00-0244 EA For 1' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	11.08	
26 51 13 00-0245 EA For 2' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	12.19	
26 51 13 00-0246 EA For 2' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	14.41	
26 51 13 00-0247 Pendant Mounting Modifications (26 51 13 00-0236)		
Note: Per pendant. Use demolition cost for associated light fixture for demolition of pendant mounted light fixture assembly.		
26 51 13 00-0248 EA For Pendant Mounting Up to 1'-6" Long Section.....	8.42	
Note: Per pendant.		
26 51 13 00-0249 EA For Pendant Mounting 2' Long Section.....	9.75	
Note: Per pendant.		
26 51 13 00-0250 EA For Pendant Mounting 3' Long Section.....	12.48	
Note: Per pendant.		
26 51 13 00-0251 EA For Pendant Mounting 4' Long Section.....	14.74	
Note: Per pendant.		
26 51 13 00-0252 EA For Pendant Mounting 6' Long Section.....	18.62	
Note: Per pendant.		
26 51 13 00-0253 EA For Pendant Mounting 8' Long Section.....	25.27	
Note: Per pendant.		
26 51 13 00-0254 Fluorescent Light Accessories (26 51 13 00-0236)		
26 51 13 00-0255 EA Blank Metal Light Box Plate	14.01	
26 51 13 00-0256 EA Factory Installed Fixture Mounted Occupancy Sensor	85.33	
26 51 13 00-0257 Wire Guards (26 51 13 00-0236)		
26 51 13 00-0258 EA Wire Guard for 6" x 2' Fixture.....	40.02	5.20
26 51 13 00-0259 EA Wire Guard for 6" x 4' Fixture.....	56.91	8.32
26 51 13 00-0260 EA Wire Guard for 1" x 2' Fixture.....	44.61	5.72
26 51 13 00-0261 EA Wire Guard for 1" x 4' Fixture.....	63.88	8.83
26 51 13 00-0262 EA Wire Guard for 2" x 2' Fixture.....	53.95	6.23
26 51 13 00-0263 EA Wire Guard for 2" x 4' Fixture.....	74.40	9.35
26 51 13 00-0264 LED Fixtures (26 51 13)		
26 51 13 00-0265 Undercabinet LED Fixtures (26 51 13 00-0264)		
26 51 13 00-0266 EA 12" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ12-M6)	122.83	25.61
26 51 13 00-0267 EA 18" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ18-M6)	156.21	31.30
26 51 13 00-0268 EA 24" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ24-M6)	174.40	31.30
26 51 13 00-0269 Striplight LED Fixtures (26 51 13 00-0264)		
26 51 13 00-0270 Striplight LED Fixtures (26 51 13 00-0269)		
26 51 13 00-0271 EA 2' Length, 3,000 Lumens, LED Striplight Fixture (Lithonia ZL1).....	239.63	28.46
26 51 13 00-0272 EA 4' Length, 2,800 Lumens, LED Striplight Fixture (Lithonia ZL1).....	249.12	34.72
26 51 13 00-0273 EA 2' Length, 1,400 Lumens, Lensed LED Striplight Fixture (Lithonia ZL2).....	234.76	28.46
26 51 13 00-0274 EA 4' Length, 2,300 Lumens, Lensed LED Striplight Fixture (Lithonia ZL2).....	244.25	34.72
26 51 13 00-0275 EA 4' Length, 4,600 Lumens, Lensed LED Striplight Fixture (Lithonia ZL2).....	312.13	34.72

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0276		Lay-In/Troffer LED Fixtures (26 51 13 00-0264)		
26 51 13 00-0277		Prismatic Lensed, Lay-In/Troffer LED Fixtures (26 51 13 00-0276)		
26 51 13 00-0278		Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 13 00-0277)		
26 51 13 00-0279	EA	4,300 Lumens, 1' x 4', Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia TL4) For Drywall Or Plaster Ceilings, Add	414.67 29.88	44.20
26 51 13 00-0280	EA	3,300 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL2) For Drywall Or Plaster Ceilings, Add	329.83 25.61	37.94
26 51 13 00-0281	EA	4,600 Lumens, 2' x 4', Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL4) For Drywall Or Plaster Ceilings, Add	399.15 29.88	44.20
26 51 13 00-0282		Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lunera) (26 51 13 00-0277)		
26 51 13 00-0283	EA	3,200 Lumens, 1' x 4', Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 14G4)	462.22	44.20
26 51 13 00-0284	EA	3,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 22G5)	322.45	37.94
26 51 13 00-0285	EA	4,175 Lumens, 2' x 4', Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 24G4)	417.66	44.20
26 51 13 00-0286		Prismatic Lensed, Lay-In/Troffer LED Fixtures (PlanLED) (26 51 13 00-0277)		
26 51 13 00-0287	EA	2,591 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E)	219.67	37.94
26 51 13 00-0288	EA	3,883 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E)	240.67	37.94
26 51 13 00-0289	EA	3,700 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-40)	208.12	37.94
26 51 13 00-0290	EA	4,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-45)	208.12	37.94
26 51 13 00-0291	EA	4,600 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-50)	221.77	37.94
26 51 13 00-0292		Volumetric, Lay-In/Troffer LED Fixtures (26 51 13 00-0276)		
26 51 13 00-0293		Volumetric, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 13 00-0292)		
26 51 13 00-0294	EA	2,500 Lumens, 1' x 4', Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4) For Drywall Or Plaster Ceilings, Add	406.33 23.48	34.43
26 51 13 00-0295	EA	2,400 Lumens, 2' x 2', Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) For Drywall Or Plaster Ceilings, Add	354.76 25.61	37.94
26 51 13 00-0296	EA	3,300 Lumens, 2' x 2', Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) For Drywall Or Plaster Ceilings, Add	361.94 25.61	37.94
26 51 13 00-0297	EA	4,000 Lumens, 2' x 4', Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) For Drywall Or Plaster Ceilings, Add	395.99 29.88	44.20
26 51 13 00-0298	EA	4,800 Lumens, 2' x 4', Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) For Drywall Or Plaster Ceilings, Add	420.55 29.88	44.20
26 51 13 00-0299	EA	2,400 Lumens, 2' x 4', Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2VTL4) For Drywall Or Plaster Ceilings, Add	337.09 29.88	44.20
26 51 13 00-0300	EA	4,000 Lumens, 2' x 4', Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2VTL4) For Drywall Or Plaster Ceilings, Add	337.09 29.88	44.20
26 51 13 00-0301		Architectural, Lay-In/Troffer LED Fixtures (26 51 13 00-0276)		
26 51 13 00-0302		Architectural, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 13 00-0301) Note: Includes 4,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51 13 00-0303	EA	2,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4) For Drywall Or Plaster Ceilings, Add	374.49 29.88	44.20
26 51 13 00-0304	EA	4,300 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4) For Drywall Or Plaster Ceilings, Add	443.76 29.88	44.20
26 51 13 00-0305	EA	6,400 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4) For Drywall Or Plaster Ceilings, Add	506.10 29.88	44.20
26 51 13 00-0306		Architectural, Lay-In/Troffer LED Fixtures (CREE® CR Series) (26 51 13 00-0301) Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.		
26 51 13 00-0307	EA	2,200 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	305.18 2.94 106.30 153.98	44.20
26 51 13 00-0308	EA	3,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	328.65 2.94 106.30 153.98	44.20
26 51 13 00-0309	EA	4,000 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	328.65 2.94 106.30 153.98	44.20
26 51 13 00-0310	EA	5,000 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	363.23 2.94 106.30 153.98	44.20
26 51 13 00-0311	EA	2,000 Lumens, 2' x 2', Architectural, Lay-In/Troffer LED Fixture (Cree® CR22™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	270.99 2.94 92.62 144.73	37.94



Electrical			26
Lighting			26 50
Interior Lighting			26 51

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0312 EA 3,200 Lumens, 2' x 2', Architectural, Lay-In/Troffer LED Fixture (Cree® CR22™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	267.28 2.94 92.62 144.73	37.94
26 51 13 00-0313 EA 3,200 Lumens, 2' x 2', Architectural, Lay-In/Troffer LED Fixture (CREE® AR22™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	267.72 2.94 92.62 144.73	37.94
26 51 13 00-0314 EA 3,200 Lumens, 2' x 2', Architectural, Lay-In/Troffer LED Fixture With Step Dimming (CREE® AR22™)..... For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	292.92 2.94 92.62 144.73	37.94
26 51 13 00-0315 EA 2,200 Lumens, 2' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR24™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	305.18 2.94 108.40 167.63	44.20
26 51 13 00-0316 EA 3,100 Lumens, 2' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR24™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	328.65 2.94 108.40 167.63	44.20
26 51 13 00-0317 EA 4,000 Lumens, 2' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR24™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	328.65 2.94 108.40 167.63	44.20
26 51 13 00-0318 EA 4,000 Lumens, High Efficiency, 2' x 4', Architectural, Lay-In/Troffer LED Fixture (CREE® CR24™)..... For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	416.35 2.94 108.40 167.63	44.20
26 51 13 00-0319 EA 5,000 Lumens, 2' x 4', Architectural, Lay-In/Troffer LED Fixture (Cree® CR24™) For Expanded Size Junction Box For Through Wiring, Add For Drywall Or Plaster Ceilings, Add For Surface Mount, Add	363.23 2.94 108.40 167.63	44.20
26 51 13 00-0320 Architectural, Lay-In/Troffer LED Fixtures (Metalux®) (26 51 13 00-0301) Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.		
26 51 13 00-0321 EA 2,500 Lumens, 2' x 2', Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC).....	278.84	37.94
26 51 13 00-0322 EA 4,700 Lumens, 2' x 4', Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC).....	372.06	44.20
26 51 13 00-0323 Shadow Box Style, Lay-In/Troffer LED Fixtures (26 51 13 00-0276)		
26 51 13 00-0324 Shadow Box Style, Lay-In/Troffer LED Fixtures (Lithonia SBSL) (26 51 13 00-0323)		
26 51 13 00-0325 EA 3,300 Lumens, 2' x 2', Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL2)..... For Drywall Or Plaster Ceilings, Add	336.93 25.61	37.94
26 51 13 00-0326 EA 4,600 Lumens, 2' x 4', Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL4)..... For Drywall Or Plaster Ceilings, Add	456.01 29.88	44.20
26 51 13 00-0327 Panel Type, Lay-In/Troffer LED Fixtures (26 51 13 00-0276)		
26 51 13 00-0328 Panel Type, Lay-In/Troffer LED Fixtures (PlanLED Galaxy) (26 51 13 00-0327)		
26 51 13 00-0329 EA 3,100 Lumens, 1' x 4', Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL140-34)	242.38	44.20
26 51 13 00-0330 EA 3,100 Lumens, 2' x 2', Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL220-34)	241.33	37.94
26 51 13 00-0331 EA 4,000 Lumens, 2' x 4', Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-40)	306.66	44.20
26 51 13 00-0332 EA 5,000 Lumens, 2' x 4', Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-52)	306.66	44.20
26 51 13 00-0333 Surface Mount LED Fixtures (26 51 13 00-0264)		
26 51 13 00-0334 Surface Mount, Volumetric LED Fixtures (26 51 13 00-0333)		
26 51 13 00-0335 EA 2' Length, 2,200 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL2)	330.00	28.46
26 51 13 00-0336 EA 4' Length, 4,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4)	377.18	34.72
26 51 13 00-0337 Surface Mount, Wraparound LED Fixtures (26 51 13 00-0333)		
26 51 13 00-0338 EA 2' Length, 3,500 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL2).....	195.42	34.72
26 51 13 00-0339 EA 4' Length, 4,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL4).....	198.74	34.72
26 51 13 00-0340 Surface Mount, Shadow Box Style LED Fixtures (26 51 13 00-0333)		
26 51 13 00-0341 Surface Mount, Shadow Box Style LED Fixtures (Lithonia SBSLX) (26 51 13 00-0340)		
26 51 13 00-0342 EA 3,300 Lumens, 2' x 2', Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX2)	426.50	37.94
26 51 13 00-0343 EA 4,600 Lumens, 2' x 4', Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX4)	545.58	44.20
26 51 13 00-0344 Recessed LED Downlights (26 51 13 00-0264)		
26 51 13 00-0345 Recessed LED Downlights (26 51 13 00-0344)		
26 51 13 00-0346 Recessed LED Downlights (Lithonia) (26 51 13 00-0345) Note: Includes housing and trim.		

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0347	EA	1,200 Lumens, 8" Diameter, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED)..... <i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i>	373.80 83.03	45.65
26 51 13 00-0348	EA	1,500 Lumens, 8" Diameter, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED)..... <i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i>	408.44 83.03	45.65
26 51 13 00-0349		Recessed LED Downlights (Portfolio®) (26 51 13 00-0345) Note: Includes housing and trim.		
26 51 13 00-0350	EA	1,300 Lumens, 4" Diameter, Recessed LED Downlight With Open Trim (Portfolio® LD413)	226.50	45.65
26 51 13 00-0351		Recessed LED Downlights (Gotham® EVO®) (26 51 13 00-0345) Note: Includes housing and trim.		
26 51 13 00-0352	EA	1,800 Lumens, 6" Diameter, Recessed LED Downlight With Open Trim (Gotham® EVO® ALED).....	333.62	45.65
26 51 13 00-0353	EA	1,800 Lumens, 6" Diameter, Recessed LED Shower Downlight With Non-Conductive Regressed Lens (Gotham® EVO® ALED).....	345.87	45.65
26 51 13 00-0354	EA	1,800 Lumens, 6" Diameter, Recessed LED Wallwash Downlight With Specular Reflector Trim (Gotham® EVO® DLWLED)	396.11	45.65
26 51 13 00-0355	EA	1,800 Lumens, 6" Diameter, Decorative Recessed LED Downlight With Glass Drop Luminous Ring (Gotham® EVO® ALED)	401.02	45.65
26 51 13 00-0356	EA	1,800 Lumens, 6" Diameter, Vandal Resistant, Recessed LED Downlight With Tempered Prismatic Lens (Gotham® EVO® VRALED)	443.91	45.65
26 51 13 00-0357		Recessed LED Downlights (Lightolier®) (26 51 13 00-0345) Note: Includes housing and trim.		
26 51 13 00-0358	EA	500 Lumens, 4" Diameter, Recessed LED Downlight With Open Trim (Lightolier C4L05DL)	328.77	45.65
26 51 13 00-0359	EA	1,000 Lumens, 4" Diameter, Recessed LED Downlight With Open Trim (Lightolier C4L10DL)	381.39	45.65
26 51 13 00-0360	EA	1,500 Lumens, 6" Diameter, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL)	407.64	45.65
26 51 13 00-0361	EA	2,000 Lumens, 6" Diameter, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL)	407.64	45.65
26 51 13 00-0362	EA	1,500 Lumens, 7" Diameter, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL)	420.82	45.65
26 51 13 00-0363	EA	2,000 Lumens, 7" Diameter, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL)	434.02	45.65
26 51 13 00-0364		Recessed LED Downlight Retrofits And Trim (CREE®) (26 51 13 00-0344)		
26 51 13 00-0365		Recessed LED Downlight Retrofits (CREE®) (26 51 13 00-0364) Note: Dimmable to 5%. For installation in standard recessed IC or non-IC housings. Includes removal of existing lamp from fixture. Excludes housing and disposal of hazardous lamps.		
26 51 13 00-0366	EA	575 Lumens, 4" Diameter, Recessed LED Downlight Retrofit (Cree® CR4-575L)	50.90	
26 51 13 00-0367	EA	625 Lumens, 6" Diameter, Recessed LED Downlight Retrofit (Cree® CR6-625L)	43.48	
26 51 13 00-0368	EA	800 Lumens, 6" Diameter, Recessed LED Downlight Retrofit (Cree® CR6-800L)	58.31	
26 51 13 00-0369	EA	650 Lumens, 6" Diameter, Recessed LED Downlight Retrofit (Cree® LR6C-277)	66.95	
26 51 13 00-0370	EA	1,000 Lumens, Deep Recess, 6" Diameter, Recessed LED Downlight Retrofit (Cree® LR6-10L-XXX-120V-A-DR)	74.36	
26 51 13 00-0371		Recessed LED Downlight Retrofits Trim (CREE®) (26 51 13 00-0364) Note: For installation in standard recessed IC or non-IC housings. Excludes housing and lamp.		
26 51 13 00-0372	EA	6" Diameter, Diffuse Anodized Finish Reflector For LED Downlight Retrofits (Cree® CT6AX)	27.92	7.26
26 51 13 00-0373	EA	6" Diameter, Diffuse Anodized Finish Reflector With Painted Flange For LED Downlight Retrofits (Cree® LT6AP)	32.86	7.26
26 51 13 00-0374	EA	6" Diameter, Flat Black Finish Trim And Reflector For LED Downlight Retrofits (Cree® CT6BB)	29.16	7.26
26 51 13 00-0375		Recessed LED Downlight Fixture Housings (CREE®) (26 51 13 00-0364) Note: Excludes lamp and trim.		
26 51 13 00-0376	EA	6" Diameter, IC Rated, Architectural Recessed LED Downlight Fixture Housing (Cree® H6)	76.34	31.13
26 51 13 00-0377	EA	6" Diameter, IC Rated, Retrofit Recessed LED Downlight Fixture Housing (Cree® RR6)	59.04	31.13
26 51 13 00-0378		Can Retrofit Or Surface Mount, LED Downlights (26 51 13 00-0344)		
26 51 13 00-0379	EA	15 Watt, 6" Diameter, Can Retrofit Or Surface Mount, LED Downlight (Lighting Science® GLP6)	94.77	28.46
26 51 13 00-0380	EA	7 Watt, 4" Diameter, Can Retrofit, LED Downlight (Green Creative 01-811-D)	74.53	28.46
26 51 13 00-0381	EA	9.5 Watt, 6" Diameter, Can Retrofit, LED Downlight (Green Creative 01-808-D)	74.53	28.46
26 51 13 00-0382	EA	8.9 Watt, 6" Diameter, Can Retrofit, LED Downlight (Lithonia 6BP)	86.46	28.46
		<i>For Recessed IC/Non-IC Rated Housing For New Construction, Add</i>	33.85	
26 51 13 00-0383		Wall Mount LED Cylinder Downlight (26 51 13 00-0264)		
26 51 13 00-0384	EA	2,200 Lumens, 9" Diameter, Wall Mount LED Cylinder Downlight With Semi-Specular Trim (Gotham® EVO® CLED9)	456.54	44.20
26 51 13 00-0385		Concealed Continuous LED Fixtures (26 51 13 00-0264)		
26 51 13 00-0386		Concealed Continuous LED Fixtures (Fraqtir™ S301) (26 51 13 00-0385)		
26 51 13 00-0387	LF	Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Driver (Fraqtir™ S301)	362.67	4.74
26 51 13 00-0388	LF	Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Dimming Driver (Fraqtir™ S301)	412.99	4.74
26 51 13 00-0389		LED Low Bay Fixtures (26 51 13 00-0264)		
26 51 13 00-0390		LED Linear Low Bay Fixtures (PlanLED) (26 51 13 00-0389)		



Electrical		26
Lighting		26 50
Interior Lighting		26 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0391	EA		4' Length, 23 System Watts, LED Linear Low Bay Fixture (PlanLED A1W4)	220.85	56.92
26 51 13 00-0392	EA		4' Length, 42 System Watts, LED Linear Low Bay Fixture (PlanLED A2W4A)	285.95	56.92
26 51 13 00-0393	EA		8' Length, 84 System Watts, LED Linear Low Bay Fixture (PlanLED A2W5A)	459.82	71.15
26 51 13 00-0394			LED Linear Low Bay Fixtures (CREE® CS) (26 51 13 00-0389) Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and lightweight polymer housing assembly. Excludes sensors.		
26 51 13 00-0395	EA		4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Cree® CS14™).....	433.68	56.92
26 51 13 00-0396	EA		7,500 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	540.16	71.15
26 51 13 00-0397	EA		8,000 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	677.28	71.15
26 51 13 00-0398			LED Linear Low Bay Fixtures (Lithonia MSL) (26 51 13 00-0389) Note: Includes 3,500K, 4,000K or 5,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51 13 00-0399	EA		4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Lithonia MSL).....	525.10	56.92
26 51 13 00-0400			Wet/Hazardous Location, LED Fixtures (26 51 13 00-0264)		
26 51 13 00-0401			Wet Location, LED Fixtures (26 51 13 00-0400)		
26 51 13 00-0402			Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM) (26 51 13 00-0401) Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 13 00-0403	EA		47 System Watts, 3,240 Lumens, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM3L)	1,131.15	79.68
			For Ceiling Mount, Add	155.14	
			For Quick Clip Mounting Option, Add	19.46	
			For Frosted Lens, Add	41.85	
			For Warm White Color Rendering, Add	56.05	
			For Stanchion Mount, Add	207.46	
			For Wall Mount, Add	214.02	
			For Polycarbonate Lens, Add	80.69	
			For Teflon Coated Lens, Add	88.81	
			For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0404	EA		63 System Watts, 3,778 Lumens, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM5L)	1,185.45	85.38
			For Ceiling Mount, Add	155.14	
			For Quick Clip Mounting Option, Add	19.46	
			For Frosted Lens, Add	41.85	
			For Warm White Color Rendering, Add	56.05	
			For Stanchion Mount, Add	207.46	
			For Wall Mount, Add	214.02	
			For Polycarbonate Lens, Add	80.69	
			For Teflon Coated Lens, Add	88.81	
			For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0405	EA		98 System Watts, 6,340 Lumens, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM7L)	1,331.25	91.07
			For Ceiling Mount, Add	155.14	
			For Quick Clip Mounting Option, Add	19.46	
			For Frosted Lens, Add	41.85	
			For Warm White Color Rendering, Add	56.05	
			For Stanchion Mount, Add	207.46	
			For Wall Mount, Add	214.02	
			For Polycarbonate Lens, Add	80.69	
			For Teflon Coated Lens, Add	88.81	
			For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0406	EA		98 System Watts, 6,340 Lumens, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM9L)	1,638.36	96.76
			For Ceiling Mount, Add	155.14	
			For Quick Clip Mounting Option, Add	19.46	
			For Frosted Lens, Add	41.85	
			For Warm White Color Rendering, Add	56.05	
			For Stanchion Mount, Add	207.46	
			For Wall Mount, Add	214.02	
			For Polycarbonate Lens, Add	80.69	
			For Teflon Coated Lens, Add	88.81	
			For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0407	EA		137 System Watts, 9,720 Lumens, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L)	1,908.82	102.45
			For Ceiling Mount, Add	155.14	
			For Quick Clip Mounting Option, Add	19.46	
			For Frosted Lens, Add	41.85	
			For Warm White Color Rendering, Add	56.05	
			For Stanchion Mount, Add	207.46	
			For Wall Mount, Add	214.02	
			For Polycarbonate Lens, Add	80.69	
			For Teflon Coated Lens, Add	88.81	
			For 347 Or 480 Volt AC, Add	122.21	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0408		Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM) (26 51 13 00-0401)			
		Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.			
26 51 13 00-0409	EA	64 System Watts, 3,160 Lumens, Yoke Mount, Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM5L).....	1,224.52	85.38	
		For Bolt-On Visor, Add	30.60		
		For Bolt-On Wire Guard, Add	56.05		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0410	EA	94 System Watts, 4,740 Lumens, Yoke Mount, Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM7L).....	1,513.87	91.07	
		For Bolt-On Visor, Add	30.60		
		For Bolt-On Wire Guard, Add	56.05		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0411	EA	126 System Watts, 6,320 Lumens, Yoke Mount, Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM9L).....	1,666.31	96.76	
		For Bolt-On Visor, Add	30.60		
		For Bolt-On Wire Guard, Add	56.05		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0412	EA	188 System Watts, 9,481 Lumens, Yoke Mount, Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM11L).....	1,906.33	102.45	
		For Bolt-On Visor, Add	30.60		
		For Bolt-On Wire Guard, Add	56.05		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0413		Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2L) (26 51 13 00-0401)			
		Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.			
26 51 13 00-0414	EA	25 System Watts, 1,400 Lumens, Pendant Mount, Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2LC).....	736.89	79.68	
		For 12/24 Volt DC Driver, Add	23.64		
		For Frosted Lens, Add	26.63		
		For 55 Degree Ambient Suitability (AC Only), Add	32.18		
		For Warm White Color Rendering, Add	37.67		
		For Ceiling Mount, Add	139.70		
		For Wall Mount, Add	163.05		
		For Teflon Coated Lens, Add	102.13		
		For Wall Mount With Junction Box, Add	197.12		
26 51 13 00-0415		Class I Division 2, Hazardous Location, LED Fixtures (26 51 13 00-0400)			
26 51 13 00-0416		Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV) (26 51 13 00-0415)			
		Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.			
26 51 13 00-0417	EA	64 System Watts, 3,160 Lumens, Yoke Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV5L).....	1,398.33	85.38	
		For Bolt-On Visor, Add	35.19		
		For Bolt-On Wire Guard, Add	64.45		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0418	EA	94 System Watts, 4,740 Lumens, Yoke Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV7L).....	1,704.44	91.07	
		For Bolt-On Visor, Add	35.19		
		For Bolt-On Wire Guard, Add	64.45		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0419	EA	126 System Watts, 6,320 Lumens, Yoke Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV9L).....	1,921.56	96.76	
		For Bolt-On Visor, Add	35.19		
		For Bolt-On Wire Guard, Add	64.45		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		
26 51 13 00-0420	EA	188 System Watts, 9,481 Lumens, Yoke Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV11L).....	2,144.60	102.45	
		For Bolt-On Visor, Add	35.19		
		For Bolt-On Wire Guard, Add	64.45		
		For Factory Installed Fuse, Add	78.83		
		For 347 Or 480 Volt AC, Add	122.21		
		For Warm White Color Rendering, Add	124.87		



Electrical		26
Lighting		26 50
Interior Lighting		26 51

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0421 Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC) (26 51 13 00-0415) Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 13 00-0422 EA 25 System Watts, 1,600 Lumens, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC)	866.14	79.68
For 12/24 Volt DC Driver, Add	20.56	
For Frosted Lens, Add	23.16	
For Warm White Color Temperature LEDs, Add	27.98	
For 55 Degree Ambient Suitability (AC Only) Option, Add	32.75	
For Stanchion Mount, Add	144.21	
For Ceiling Mount, Add	161.41	
For Wall Mount, Add	185.92	
For Teflon Coated Lens, Add	88.81	
For Wall Mount With Junction Box, Add	221.71	
26 51 13 00-0423 Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV) (26 51 13 00-0415) Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 13 00-0424 EA 47 System Watts, 3,240 Lumens, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV3L)	1,279.97	79.68
For Ceiling Mount, Add	178.76	
For Quick Clip Mounting Option, Add	19.46	
For Frosted Lens, Add	48.13	
For Warm White Color Rendering, Add	56.05	
For Polycarbonate Lens, Add	80.69	
For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0425 EA 63 System Watts, 3,778 Lumens, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV5L)	1,415.94	85.38
For Ceiling Mount, Add	178.76	
For Quick Clip Mounting Option, Add	19.46	
For Frosted Lens, Add	48.13	
For Warm White Color Rendering, Add	56.05	
For Polycarbonate Lens, Add	80.69	
For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0426 EA 98 System Watts, 6,340 Lumens, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV7L)	1,690.54	91.07
For Ceiling Mount, Add	178.76	
For Quick Clip Mounting Option, Add	19.46	
For Frosted Lens, Add	48.13	
For Warm White Color Rendering, Add	56.05	
For Polycarbonate Lens, Add	80.69	
For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0427 EA 98 System Watts, 6,340 Lumens, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV9L)	2,049.15	96.76
For Ceiling Mount, Add	178.76	
For Quick Clip Mounting Option, Add	19.46	
For Frosted Lens, Add	48.13	
For Warm White Color Rendering, Add	56.05	
For Polycarbonate Lens, Add	80.69	
For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0428 EA 137 System Watts, 9,720 Lumens, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV11L)	2,305.30	102.45
For Ceiling Mount, Add	178.76	
For Quick Clip Mounting Option, Add	19.46	
For Frosted Lens, Add	48.13	
For Warm White Color Rendering, Add	56.05	
For Polycarbonate Lens, Add	80.69	
For 347 Or 480 Volt AC, Add	122.21	
26 51 13 00-0429 Class I Division 1, Explosion Proof, LED Fixtures (26 51 13 00-0400)		
26 51 13 00-0430 Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL) (26 51 13 00-0429) Note: Includes 5,600K CRI LED arrays, shatter resistant and explosion proof glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 13 00-0431 EA 80 System Watts, 5,625 Lumens, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL5L)	1,841.24	85.38
For Wall Mount, Deduct	242.15	
For Warm Color Temperature LEDs, Add	53.38	
For Stainless Steel Guard, Add	325.31	
For Ceiling Mount, Add	338.44	
For Stanchion Mount, Add	382.07	
For Yoke Mount, Add	333.16	
26 51 13 00-0432 EA 100 System Watts, 6,750 Lumens, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL7L)	2,230.27	91.07
For Wall Mount, Deduct	242.15	
For Warm Color Temperature LEDs, Add	53.38	
For Stainless Steel Guard, Add	325.31	
For Ceiling Mount, Add	338.44	
For Stanchion Mount, Add	382.07	
For Yoke Mount, Add	333.16	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0433	EA	130 System Watts, 9,000 Lumens, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL9L).....	2,584.83	96.76	
		For Wall Mount, Deduct	242.15		
		For Warm Color Temperature LEDs, Add	53.38		
		For Stainless Steel Guard, Add	325.31		
		For Ceiling Mount, Add	338.44		
		For Stanchion Mount, Add	382.07		
		For Yoke Mount, Add	333.16		
26 51 13 00-0434	EA	151 System Watts, 10,500 Lumens, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL11L).....	2,945.83	102.45	
		For Wall Mount, Deduct	242.15		
		For Warm Color Temperature LEDs, Add	53.38		
		For Stainless Steel Guard, Add	325.31		
		For Ceiling Mount, Add	338.44		
		For Stanchion Mount, Add	382.07		
		For Yoke Mount, Add	333.16		
26 51 13 00-0435	EA	175 System Watts, 13,500 Lumens, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL13L).....	3,406.18	98.65	
		For Wall Mount, Deduct	242.15		
		For Warm Color Temperature LEDs, Add	53.38		
		For Stainless Steel Guard, Add	325.31		
		For Ceiling Mount, Add	338.44		
		For Stanchion Mount, Add	382.07		
		For Yoke Mount, Add	333.16		
26 51 13 00-0436		Refrigeration/Display LED Fixtures (26 51 13 00-0264)			
26 51 13 00-0437		Refrigeration/Display LED Fixtures (Lithonia) (26 51 13 00-0436)			
		Note: Fixtures exclude driver.			
26 51 13 00-0438	EA	5' Length, Center Mount, Refrigeration/Display, Vertical LED Fixture (Lithonia FSV5 CM DLC).....	275.03	44.20	
26 51 13 00-0439	EA	5' Length, Left And Right Mount (Pair), Refrigeration/Display, Vertical LED Fixture (Lithonia FSVDRVL RLEM DLC).....	356.01	78.26	
26 51 13 00-0440	EA	Up To 5 Door Configuration, LED Driver For Refrigeration/Display, Vertical LED Fixtures (Lithonia FSVDRVL).....	345.32	62.61	
26 51 13 00-0441		Recessed Fixtures (26 51 13)			
		Note: Housing and trim priced separately.			
26 51 13 00-0442		Recessed Fixture Housings (26 51 13 00-0441)			
		Note: Lamps included in all prices. The housing insulation must be 3" from housing. ICT may be covered with insulation. Remodel housing may be installed from below ceiling. ICAT housing is air tight. Demo cost of housing includes demo of any fixture trim.			
26 51 13 00-0443		Compact Fluorescent, Recessed Fixture Housings (26 51 13 00-0442)			
26 51 13 00-0444	EA	4" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....	92.67	29.67	
		For ICAT Housing, Add	6.20		
26 51 13 00-0445	EA	5" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....	94.76	29.67	
		For ICAT Housing, Add	6.47		
26 51 13 00-0446	EA	6" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....	98.51	31.13	
		For ICAT Housing, Add	6.68		
26 51 13 00-0447	EA	7" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....	101.72	32.48	
		For ICAT Housing, Add	6.83		
26 51 13 00-0448	EA	8" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....	105.26	33.82	
		For ICAT Housing, Add	7.02		
26 51 13 00-0449	EA	10" To 12" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing.....	109.19	35.90	
		For ICAT Housing, Add	7.12		
26 51 13 00-0450		Fluorescent, Recessed Fixture Housings (26 51 13 00-0442)			
26 51 13 00-0451	EA	4" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....	83.55	29.67	
		For ICAT Housing, Add	5.02		
26 51 13 00-0452	EA	5" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....	85.67	29.67	
		For ICAT Housing, Add	5.30		
26 51 13 00-0453	EA	6" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....	89.35	31.03	
		For ICAT Housing, Add	5.50		
26 51 13 00-0454	EA	7" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....	93.76	32.17	
		For ICAT Housing, Add	5.80		
26 51 13 00-0455	EA	8" Round, Fluorescent, T Or ICT Recessed Fixture Housing.....	97.73	33.82	
		For ICAT Housing, Add	6.05		
26 51 13 00-0456	EA	10" To 12" Square, Fluorescent, T Or ICT Recessed Fixture Housing.....	101.82	35.90	
		For ICAT Housing, Add	6.17		
26 51 13 00-0457		High Pressure Sodium, Recessed Fixture Housings (26 51 13 00-0442)			
26 51 13 00-0458	EA	4" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	95.68	29.88	
		For ICAT Housing, Add	6.59		
26 51 13 00-0459	EA	5" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	99.09	29.88	
		For ICAT Housing, Add	7.03		
26 51 13 00-0460	EA	6" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	104.00	31.13	
		For ICAT Housing, Add	7.39		
26 51 13 00-0461	EA	7" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	107.94	32.48	
		For ICAT Housing, Add	7.63		
26 51 13 00-0462	EA	8" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	111.84	33.82	
		For ICAT Housing, Add	7.87		



Electrical		26
Lighting		26 50
Interior Lighting		26 51

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 51 13 00-0463	EA 10" To 12" Square, High Pressure Sodium, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	115.87	7.99	35.90
26 51 13 00-0464	Incandescent, Recessed Fixture Housings (26 51 13 00-0442)			
26 51 13 00-0465	EA 4" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	59.66	1.94	29.67
26 51 13 00-0466	EA 5" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	59.66	1.94	29.67
26 51 13 00-0467	EA 6" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	63.03	2.11	31.13
26 51 13 00-0468	EA 7" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	66.49	2.29	32.48
26 51 13 00-0469	EA 8" Round, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	69.95	2.47	33.82
26 51 13 00-0470	EA 10" To 12" Square, Incandescent, T Or ICT Recessed Fixture Housing..... For ICAT Housing, Add	72.27	2.36	35.90
26 51 13 00-0471	Recessed Fixture Trim (26 51 13 00-0441)			
26 51 13 00-0472	EA Circular, Recessed Fixture Trim	40.40		14.53
26 51 13 00-0473	EA Circular Clear Lens, Recessed Fixture Trim	43.81		14.53
26 51 13 00-0474	EA Open/Baffle, Recessed Fixture Trim	49.72		14.53
26 51 13 00-0475	EA Specular Reflector, Recessed Fixture Trim	52.85		14.53
26 51 13 00-0476	EA Eyeball, Recessed Fixture Trim	43.86		14.53
26 51 13 00-0477	EA 10" To 12" Square, Clear Lens, Recessed Fixture Trim	42.03		14.53
26 51 13 00-0478	EA 10" To 12" Square, Drop Dish, Recessed Fixture Trim	44.13		14.53
26 51 13 00-0479	Ceiling Mounted Fixtures (26 51 13)			
26 51 13 00-0480	Ceiling Mounted, Compact Fluorescent/Incandescent Fixtures (26 51 13 00-0479)			
26 51 13 00-0481	Glass Globe, Compact Fluorescent/Incandescent Fixtures (26 51 13 00-0480)			
26 51 13 00-0482	EA 6" Diameter, Ceiling Mounted, Glass Globe, Compact Fluorescent/Incandescent Fixture	98.88		41.50
26 51 13 00-0483	EA 9" Diameter, Ceiling Mounted, Mushroom Style Glass Globe, Compact Fluorescent/Incandescent Fixture.....	111.41		41.50
26 51 13 00-0484	Ceiling Mounted, Circline Fluorescent Fixtures (26 51 13 00-0479)			
26 51 13 00-0485	Exposed Lamps, Circline Fluorescent Fixtures (26 51 13 00-0484)			
26 51 13 00-0486	EA 8-1/2" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture.....	89.33		41.50
26 51 13 00-0487	EA 12" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture.....	95.42		41.50
26 51 13 00-0488	Low Profile Acrylic Diffuser, Circline Fluorescent Fixtures (26 51 13 00-0484)			
26 51 13 00-0489	EA 11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	115.49		41.50
26 51 13 00-0490	EA 14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	149.98		41.50
26 51 13 00-0491	EA 19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	173.87		41.50
26 51 13 00-0492	EA 12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	126.66		41.50
26 51 13 00-0493	EA 15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	150.68		41.50
26 51 13 00-0494	EA 19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	173.87		41.50
26 51 13 00-0495	Ceiling Mounted, Double Twin Tube Compact Fluorescent Fixtures (26 51 13 00-0479)			
26 51 13 00-0496	Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixtures (26 51 13 00-0495)			
26 51 13 00-0497	EA 11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	118.14		41.50
26 51 13 00-0498	EA 14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	141.77		41.50
26 51 13 00-0499	EA 19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	163.24		41.50
26 51 13 00-0500	EA 12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	100.46		41.50
26 51 13 00-0501	EA 15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	113.62		41.50
26 51 13 00-0502	EA 19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	138.55		41.50
26 51 13 00-0503	Pendant Mounted, Compact Fluorescent/Incandescent Downlights (26 51 13 00-0479)			
26 51 13 00-0504	Pendant Mounted, Compact Fluorescent/Incandescent Open Reflector Downlights (26 51 13 00-0503)			
26 51 13 00-0505	EA 6" Diameter, Pendant Mounted, Open Reflector Compact Fluorescent/Incandescent Downlight.....	158.66		34.09
26 51 13 00-0506	Pendant Mounted, Compact Fluorescent/Incandescent Downlights With Baffle (26 51 13 00-0503)			
26 51 13 00-0507	EA 6" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	177.73		34.09
26 51 13 00-0508	EA 8" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	239.26		34.09
26 51 13 00-0509	Pendant Mounted, Horizontal Indirect Fluorescent Fixtures (26 51 13 00-0479)			
26 51 13 00-0510	EA 1 T5HO Lamp, 4' Length, Pendent Mounted, Horizontal Indirect Fluorescent Fixture	175.67		34.09

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0511	EA	2 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	187.66	34.09
26 51 13 00-0512	EA	3 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	222.21	34.09
26 51 13 00-0513	EA	2 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	227.66	34.09
26 51 13 00-0514	EA	4 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	272.15	34.09
26 51 13 00-0515	EA	6 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture	323.83	34.09
26 51 13 00-0516 Finelite Fluorescent Fixtures (26 51 13 00-0479)				
26 51 13 00-0517 Pendant Mounted, Fluorescent Downlight Fixtures (Finelite Series 10) (26 51 13 00-0516)				
26 51 13 00-0518	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	287.65	48.36
26 51 13 00-0519	EA	2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	287.99	48.36
26 51 13 00-0520	EA	3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	310.56	48.36
26 51 13 00-0521	EA	1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	342.03	48.36
26 51 13 00-0522	EA	2 T5HO Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	374.53	48.36
26 51 13 00-0523	EA	3 T5HO Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	455.92	48.36
26 51 13 00-0524	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	401.17	50.43
26 51 13 00-0525	EA	4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	415.19	50.43
26 51 13 00-0526	EA	6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	460.31	50.43
26 51 13 00-0527	EA	2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	438.82	50.43
26 51 13 00-0528	EA	4 T5HO Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	548.26	50.43
26 51 13 00-0529	EA	6 T5HO Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	644.37	50.43
26 51 13 00-0530	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	523.58	52.50
26 51 13 00-0531	EA	6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	546.83	52.50
26 51 13 00-0532	EA	9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	605.64	52.50
26 51 13 00-0533	EA	3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	602.28	52.50
26 51 13 00-0534	EA	6 T5HO Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	744.22	52.50
26 51 13 00-0535	EA	9 T5HO Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10)	890.62	52.50
26 51 13 00-0536 Pendant Mounted, Fluorescent Wallwash Fixtures (Finelite Series X2-O) (26 51 13 00-0516)				
26 51 13 00-0537	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	270.66	48.36
26 51 13 00-0538	EA	1 T5 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	290.60	48.36
26 51 13 00-0539	EA	1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	292.71	48.36
26 51 13 00-0540	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	385.52	50.43
26 51 13 00-0541	EA	2 T5 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	407.39	50.43
26 51 13 00-0542	EA	2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	411.62	50.43
26 51 13 00-0543	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	500.39	52.50
26 51 13 00-0544	EA	3 T5 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	560.19	52.50
26 51 13 00-0545	EA	3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)	566.54	52.50
26 51 13 00-0546 Pendant Mounted, Fluorescent Indirect Fixtures (Finelite Series 8) (26 51 13 00-0516)				
26 51 13 00-0547	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	214.16	48.36
26 51 13 00-0548	EA	2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	225.85	48.36
26 51 13 00-0549	EA	3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	262.84	48.36
26 51 13 00-0550	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	272.77	50.43
26 51 13 00-0551	EA	4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	319.15	50.43
26 51 13 00-0552	EA	6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)	373.57	50.43



Electrical		26
Lighting		26 50
Interior Lighting		26 51

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0553 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	365.89	52.50
26 51 13 00-0554 EA 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	444.65	52.50
26 51 13 00-0555 EA 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	528.02	52.50
26 51 13 00-0556 Track Lighting (26 51 13)		
26 51 13 00-0557 Track Lighting Tracks (26 51 13 00-0556)		
26 51 13 00-0558 LF 1 Circuit Track Lighting Track.....	24.34	6.85
26 51 13 00-0559 LF 2 Circuit Track Lighting Track.....	31.95	6.85
26 51 13 00-0560 LF 3 Circuit Track Lighting Track.....	38.42	6.85
26 51 13 00-0561 LF 4 Circuit Track Lighting Track.....	44.90	8.30
26 51 13 00-0562 Track Lighting Fixtures (26 51 13 00-0556)		
26 51 13 00-0563 Compact Fluorescent Track Lighting Fixtures (26 51 13 00-0562)		
26 51 13 00-0564 EA Compact Fluorescent Track Lighting Fixture	58.12	17.33
26 51 13 00-0565 Fluorescent Track Lighting Fixtures (26 51 13 00-0562)		
26 51 13 00-0566 EA 2L 18W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	264.61	17.33
26 51 13 00-0567 EA 2L 39W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	276.65	17.33
26 51 13 00-0568 EA 2L 40W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	284.17	17.33
26 51 13 00-0569 EA 2L 50W BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	251.64	17.33
26 51 13 00-0570 EA 2L, 55 Watt BX Track Fixture, Electronic Ballast Note: White or Black Finish, 120V.	320.86	17.33
26 51 13 00-0571 Metal Halide Track Lighting Fixtures (26 51 13 00-0562)		
26 51 13 00-0572 EA Metal Halide Track Lighting Fixture	60.89	17.33
26 51 13 00-0573 Incandescent Track Lighting Fixtures (26 51 13 00-0562)		
26 51 13 00-0574 EA Incandescent Track Lighting Fixture	51.24	17.33
26 51 13 00-0575 EA Par 20 Track Fixture, White Or Black Finish, 120 Volt.....	65.24	17.33
26 51 13 00-0576 EA Par 30 Track Fixture, White Or Black Finish, 120 Volt.....	95.59	17.33
26 51 13 00-0577 EA Par 38 Track Fixture, White Or Black Finish, 120 Volt.....	98.60	17.33
26 51 13 00-0578 EA PAR 16, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	78.98	17.33
26 51 13 00-0579 EA PAR 20, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	65.24	17.33
26 51 13 00-0580 EA PAR 30, Baffled Cylinder Track Fixture, White or Black Finish..... Note: 120V.	77.54	17.33
26 51 13 00-0581 EA PAR 38, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	101.61	17.33
26 51 13 00-0582 LED Track Lighting Fixtures (26 51 13 00-0562)		
26 51 13 00-0583 EA 19 Watt, Dimmable, LED Track Lighting Fixture (Juno® TRAC-MASTER® Cylindra™).....	212.61	17.33
26 51 13 00-0584 EA 18 Watt, Dimmable, LED Track Lighting Fixture (HALO® Stasis L805MED).....	375.16	17.33
26 51 13 00-0585 EA 24 Watt, Dimmable, LED Track Lighting Fixture (Amerlux CNTRV33)	218.78	17.33
26 51 13 00-0586 Track Lighting Accessories (26 51 13 00-0556)		
26 51 13 00-0587 Pendant Mounting (26 51 13 00-0586)		
26 51 13 00-0588 EA Track Lighting Pendant Mounting, Up to 12"	25.72	
26 51 13 00-0589 EA Track Lighting Pendant Mounting, >12" To 24"	33.54	
26 51 13 00-0590 EA Track Lighting Pendant Mounting, >24" To 36"	41.04	
26 51 13 00-0591 Wet Location, Dust Resistant, Vapor Tight Fixtures (26 51 13)		
26 51 13 00-0592 Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0591)		
26 51 13 00-0593 Incandescent, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0592)		
26 51 13 00-0594 EA 100 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... For Wall Mounted, Add	130.09 5.10	41.50
26 51 13 00-0595 EA 200 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... For Wall Mounted, Add	151.51 5.10	41.50
26 51 13 00-0596 Compact Fluorescent, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0592)		

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0597	EA	13 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....141.14 <i>For Wall Mounted, Add</i>	6.02	41.50
26 51 13 00-0598	EA	22 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....145.35 <i>For Wall Mounted, Add</i>	6.02	41.50
26 51 13 00-0599	EA	28 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....155.77 <i>For Wall Mounted, Add</i>	6.02	41.50
26 51 13 00-0600 Metal Halide, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0592)				
26 51 13 00-0601	EA	75 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....177.78 <i>For Wall Mounted, Add</i>	6.30	41.50
26 51 13 00-0602	EA	100 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....183.69 <i>For Wall Mounted, Add</i>	6.30	41.50
26 51 13 00-0603	EA	150 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....195.69 <i>For Wall Mounted, Add</i>	6.30	41.50
26 51 13 00-0604	EA	175 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....213.74 <i>For Wall Mounted, Add</i>	6.30	41.50
26 51 13 00-0605 High Pressure Sodium, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0592)				
26 51 13 00-0606	EA	70 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....163.72 <i>For Wall Mounted, Add</i>	6.67	41.50
26 51 13 00-0607	EA	100 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....171.06 <i>For Wall Mounted, Add</i>	6.67	41.50
26 51 13 00-0608	EA	150 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....199.43 <i>For Wall Mounted, Add</i>	6.67	41.50
26 51 13 00-0609 Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 13 00-0591)				
26 51 13 00-0610 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 13 00-0609)				
26 51 13 00-0611 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia DMW) (26 51 13 00-0610)				
Note: Includes high impact acrylic molded lens.				
26 51 13 00-0612	EA	1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....175.13 <i>For T5 Fixture Instead Of T8, Add</i>	12.45	44.20
26 51 13 00-0613	EA	2 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....183.42 <i>For T5 Fixture Instead Of T8, Add</i>	13.40	44.20
26 51 13 00-0614	EA	3 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....271.40 <i>For T5 Fixture Instead Of T8, Add</i>	23.47	44.20
26 51 13 00-0615	EA	1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....235.62		44.20
26 51 13 00-0616	EA	2 T8HO Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....362.69		44.20
26 51 13 00-0617 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Day-Brite V2W) (26 51 13 00-0610)				
Note: Includes high impact acrylic molded lens.				
26 51 13 00-0618	EA	1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....209.53		44.20
26 51 13 00-0619	EA	2 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....212.89		44.20
26 51 13 00-0620	EA	3 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....299.64		44.20
26 51 13 00-0621	EA	1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....249.21		44.20
26 51 13 00-0622	EA	2 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....259.45		44.20
26 51 13 00-0623 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 13 00-0609)				
Note: Includes high impact acrylic molded lens.				
26 51 13 00-0624 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia TDMW) (26 51 13 00-0623)				
Note: Includes high impact acrylic molded lens.				
26 51 13 00-0625	EA	2 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW).....316.28 <i>For T5 Fixture Instead Of T8, Add</i>	25.90	60.04
26 51 13 00-0626	EA	4 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW).....329.87 <i>For T5 Fixture Instead Of T8, Add</i>	27.45	60.04
26 51 13 00-0627 Large Interior Area Fixtures (26 51 13)				
26 51 13 00-0628 Recessed Mounted, Large Interior Area Fixtures (26 51 13 00-0627)				
Note: Cast aluminum socket housing, anodized aluminum reflector, tempered glass or acrylic lens, plaster mounting frames and brackets.				
26 51 13 00-0629 High Pressure Sodium, Recessed Mounted, Large Interior Area Fixtures (26 51 13 00-0628)				
26 51 13 00-0630	EA	150 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture.....294.71 <i>For Wire Guard, Add</i>	40.50	110.61
		<i>For Instant Quartz Restrike, Add</i>	60.00	



Electrical		26
Lighting		26 50
Interior Lighting		26 51

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0631 EA 250 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture For Wire Guard, Add For Instant Quartz Restrike, Add	308.50 40.50 60.00	117.46
26 51 13 00-0632 EA 400 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture For Wire Guard, Add For Instant Quartz Restrike, Add	330.53 40.50 60.00	134.06
26 51 13 00-0633 Metal Halide, Recessed Mounted, Large Interior Area Fixtures (26 51 13 00-0628)		
26 51 13 00-0634 EA 150 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture For Wire Guard, Add For Instant Quartz Restrike, Add	302.64 40.50 60.00	110.61
26 51 13 00-0635 EA 250 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture For Wire Guard, Add For Instant Quartz Restrike, Add	310.33 40.50 60.00	117.46
26 51 13 00-0636 EA 400 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture For Wire Guard, Add For Instant Quartz Restrike, Add	336.87 40.50 60.00	134.06
26 51 13 00-0637 Low Bay Fixtures, Large Interior Area Fixtures (26 51 13 00-0627) Note: Heavy duty steel housing, aluminum reflector, tempered glass or acrylic lens. Low bay fixtures are for mounting below 20-25 feet.		
26 51 13 00-0638 High Pressure Sodium, Low Bay Fixtures (26 51 13 00-0637)		
26 51 13 00-0639 EA 150 Watt High Pressure Sodium, Low Bay Fixture For Wire Guard, Add For Enclosed And Gasketed, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add	426.68 40.50 75.47 60.00 90.00	101.12
26 51 13 00-0640 EA 250 Watt High Pressure Sodium, Low Bay Fixture For Wire Guard, Add For Enclosed And Gasketed, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add	437.99 40.50 75.47 60.00 90.00	107.38
26 51 13 00-0641 EA 400 Watt High Pressure Sodium, Low Bay Fixture For Wire Guard, Add For Enclosed And Gasketed, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add	463.93 40.50 75.47 60.00 90.00	122.55
26 51 13 00-0642 Metal Halide, Low Bay Fixtures (26 51 13 00-0637)		
26 51 13 00-0643 EA 175 Watt Metal Halide, Low Bay Fixture For Wire Guard, Add For Enclosed And Gasketed, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add	427.12 40.50 75.47 60.00 90.00	101.12
26 51 13 00-0644 EA 250 Watt Metal Halide, Low Bay Fixture For Wire Guard, Add For Enclosed And Gasketed, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add	438.13 40.50 75.47 60.00 90.00	107.38
26 51 13 00-0645 EA 400 Watt Metal Halide, Low Bay Fixture For Wire Guard, Add For Enclosed And Gasketed, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add	468.43 40.50 75.47 60.00 90.00	122.55
26 51 13 00-0646 High Bay Fixtures, Large Interior Area Fixtures (26 51 13 00-0627) Note: High bay fixtures are for mounting above 20-25 feet. See CSI section 01 22 23 00-0001 for lifts.		
26 51 13 00-0647 High Pressure Sodium, High Bay Fixtures (26 51 13 00-0646) Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 13 00-0648 EA 250 Watt High Pressure Sodium, High Bay Fixture For Wire Guard, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add For Tempered Glass Or Acrylic Lens, Add For Polycarbonate Lens, Add For Security Chain, Add For Optical Safety Chain, Add For Ballast Safety Chain, Add	386.71 40.50 60.00 90.00 60.50 47.75 19.34 7.47 12.13	107.38
26 51 13 00-0649 EA 400 Watt High Pressure Sodium, High Bay Fixture For Wire Guard, Add For Instant Quartz Restrike, Add For Glass Or Acrylic Reflector, Add For Tempered Glass Or Acrylic Lens, Add For Polycarbonate Lens, Add For Security Chain, Add For Optical Safety Chain, Add For Ballast Safety Chain, Add	418.06 40.50 60.00 90.00 60.50 47.75 19.34 7.47 12.13	122.55

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0650	EA		1,000 Watt High Pressure Sodium, High Bay Fixture	610.56	128.91
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 13 00-0651			Metal Halide, High Bay Fixtures (26 51 13 00-0646)		
			Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 13 00-0652	EA		250 Watt Metal Halide, High Bay Fixture	362.77	107.38
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 13 00-0653	EA		400 Watt Metal Halide, High Bay Fixture	392.86	122.55
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 13 00-0654	EA		1,000 Watt Metal Halide, High Bay Fixture	527.26	128.91
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
			For Glass Or Acrylic Reflector, Add	90.00	
			For Tempered Glass Or Acrylic Lens, Add	60.50	
			For Polycarbonate Lens, Add	47.75	
			For Security Chain, Add	19.34	
			For Optical Safety Chain, Add	7.47	
			For Ballast Safety Chain, Add	12.13	
26 51 13 00-0655			(T8) Fluorescent, High Bay Fixtures (26 51 13 00-0646)		
26 51 13 00-0656			(T8) Fluorescent, High Bay Fixtures (Lithonia) (26 51 13 00-0655)		
			Note: For 8' fixture, use two (2) 4' fixtures.		
26 51 13 00-0657	EA		2 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)	316.03	96.75
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0658	EA		3 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)	335.49	107.19
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0659	EA		4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)	381.88	122.36
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0660	EA		6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)	449.70	128.91
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0661	EA		8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)	488.72	134.89
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0662	EA		4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	401.48	122.36
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0663	EA		6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	420.53	128.91
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0664	EA		8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	488.52	134.89
			For Wire Guard, Add	40.50	
			For Polycarbonate Lens, Add	47.75	
			For Acrylic Lens, Add	54.00	
26 51 13 00-0665			(T5HO) Fluorescent, High Bay Fixtures (26 51 13 00-0646)		
26 51 13 00-0666			(T5HO) Fluorescent, High Bay Fixtures (Lithonia) (26 51 13 00-0655)		
			Note: For 8' fixture, use two (2) 4' fixtures.		



Electrical		26
Lighting		26 50
Interior Lighting		26 51

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0667 EA 2 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	320.90	96.75
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0668 EA 3 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	341.40	107.19
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0669 EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	390.74	122.36
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0670 EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	465.53	128.91
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0671 EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	432.70	122.36
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0672 EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	480.97	128.91
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0673 EA 8 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)	572.11	134.89
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 13 00-0674 Induction, High Bay Fixtures (26 51 13 00-0646)		
26 51 13 00-0675 Induction, High Bay Fixtures (Everlast®) (26 51 13 00-0674)		
Note: Includes die cast aluminum ballast casing and acrylic lens.		
26 51 13 00-0676 EA 100 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	475.03	93.91
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0677 EA 120 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	511.92	97.04
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0678 EA 150 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	521.10	100.17
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0679 EA 200 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	571.28	103.30
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0680 EA 250 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	586.00	106.43
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0681 EA 100 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	513.82	93.91
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0682 EA 120 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	550.71	97.04
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0683 EA 150 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	559.89	100.17
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0684 EA 200 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	610.07	103.30
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0685 EA 250 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	624.79	106.43
For Impact Resistant Silicon Lens, Add	20.00	
26 51 13 00-0686 LED, High Bay Fixtures (26 51 13 00-0646)		
26 51 13 00-0687 LED High Bay Fixtures (Lithonia IBL) (26 51 13 00-0686)		
Note: Includes aluminum alloy chassis.		
26 51 13 00-0688 EA 9,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 9L)	602.40	104.34
26 51 13 00-0689 EA 12,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 12L)	657.81	104.34
26 51 13 00-0690 EA 18,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 18L)	807.43	104.34
26 51 13 00-0691 EA 24,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 24L)	867.28	104.34
26 51 13 00-0692 LED High Bay Fixtures (PlanLED) (26 51 13 00-0686)		
26 51 13 00-0693 LED High Bay Fixtures (PlanLED LUNA) (26 51 13 00-0692)		
Note: Includes aluminum alloy chassis.		
26 51 13 00-0694 EA 7,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN70)	553.09	104.34
26 51 13 00-0695 EA 9,800 Lumens, LED High Bay Fixture (PlanLED LUNA LN98)	611.89	104.34
26 51 13 00-0696 EA 13,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN130)	696.94	104.34
26 51 13 00-0697 EA 16,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN160)	779.89	104.34
26 51 13 00-0698 LED High Bay Fixtures (PlanLED IBL) (26 51 13 00-0692)		
Note: Includes aluminum alloy chassis.		
26 51 13 00-0699 EA 13,650 Lumens, 130 System Watts, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 130W).....	595.09	104.34
For 347-480 Volt, Add	34.06	
26 51 13 00-0700 EA 21,000 Lumens, 200 System Watts, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 200W).....	799.84	104.34
For 347-480 Volt, Add	44.28	
26 51 13 00-0701 EA 42,000 Lumens, 400 System Watts, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 400W).....	1,363.69	104.34
For 347-480 Volt, Add	72.65	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 13 00-0702 LED High Bay Fixtures (PlanLED SEGA) (26 51 13 00-0692) Note: Includes aluminum alloy chassis.		
26 51 13 00-0703 EA 10,400 Lumens, 80 System Watts, LED High Bay Fixture (PlanLED SEGA SE080).....	484.84	104.34
For 0 To 10 Volt Dimming, Add	49.73	
26 51 13 00-0704 EA 13,000 Lumens, 100 System Watts, LED High Bay Fixture (PlanLED SEGA SE100).....	513.19	104.34
For 0 To 10 Volt Dimming, Add	49.73	
26 51 13 00-0705 EA 16,900 Lumens, 130 System Watts, LED High Bay Fixture (PlanLED SEGA SE130).....	610.84	104.34
For 0 To 10 Volt Dimming, Add	49.73	
26 51 13 00-0706 EA 20,800 Lumens, 160 System Watts, LED High Bay Fixture (PlanLED SEGA SE160).....	681.19	104.34
For 0 To 10 Volt Dimming, Add	49.73	
26 51 13 00-0707 EA 50,000 Lumens, 400 System Watts, Array, LED High Bay Fixture (PlanLED SEGA SE400)	1,199.89	104.34
26 51 13 00-0708 EA 57,040 Lumens, 500 System Watts, Array, LED High Bay Fixture (PlanLED SEGA SE500)	1,292.29	104.34
26 51 13 00-0709 EA 80,000 Lumens, 640 System Watts, Array, LED High Bay Fixture (PlanLED SEGA SE640)	1,947.43	104.34
26 51 13 00-0710 Ceiling Mounted, Large Interior Area Fixtures (26 51 13 00-0627) Note: Heavy duty aluminum housing, aluminum reflector, acrylic drop dish lens, fully gasketed.		
26 51 13 00-0711 High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixtures (26 51 13 00-0710)		
26 51 13 00-0712 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	338.44	71.91
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0713 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	385.40	71.91
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0714 EA 250 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	439.97	71.91
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0715 EA 400 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	581.09	71.91
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0716 Metal Halide, Ceiling Mounted, Large Interior Area Fixtures (26 51 13 00-0710)		
26 51 13 00-0717 EA 100 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	290.08	71.91
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0718 EA 175 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	310.63	79.79
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0719 EA 250 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	331.85	86.43
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0720 EA 400 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture	365.65	102.92
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 13 00-0721 Removal And Reinstallation Of Light Fixtures (26 51 13) Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.		
26 51 13 00-0722 EA Removal And Reinstallation Of Lay-In Fluorescent Light Fixture	110.51	
26 51 13 00-0723 EA Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture	126.30	
26 51 13 00-0724 Retrofit Existing Fluorescent Fixtures (26 51 13)		
26 51 13 00-0725 EA Convert 1L F96 fixture to operate (2) F32T8 lamps	179.08	
Note: Includes white enameled 8' reflective fixture pan, pre-wired with lampholders and ballast. Excludes lamps.		
For Specular Reflector, Add	21.27	
For Retrofit Kit Without Ballast, Deduct	-63.58	
26 51 13 00-0726 EA Convert 2L F96 fixture to operate (4) F32T8 lamps	184.27	
Note: Includes white enameled 8' reflective fixture pan, pre-wired with lampholders and ballast. Excludes lamps.		
For Specular Reflector, Add	21.27	
For Retrofit Kit Without Ballast, Deduct	-64.35	
26 51 13 00-0727 EA Convert 1L UFB40 fixture to operate (2) F17T8 lamps	112.44	
Note: Includes white enameled reflective fixture pan, pre-wired with lampholders and ballast. Excludes lamps.		
For Specular Reflector, Add	6.35	
For Retrofit Kit Without Ballast, Deduct	-36.52	
26 51 13 00-0728 EA Convert 2L UFB40 fixture to operate (3) F17T8 lamps	116.59	
Note: Includes white enameled reflective fixture pan, pre-wired with lampholders and ballast. Excludes lamps.		
For Specular Reflector, Add	6.35	
For Retrofit Kit Without Ballast, Deduct	-37.14	



Electrical		26
Lighting		26 50
Safety Lighting		26 52

26

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 Safety Lighting (26 50)			
26 52 00 00-0001 Commercial Emergency Lights (26 52)			
26 52 00 00-0002 Polycarbonate Housing, Commercial Emergency Lights (26 52 00 00-0001)			
Note: Includes lead-calcium batteries and two adjustable lamp heads.			
26 52 00 00-0003	EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	144.83	25.94
26 52 00 00-0004	EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	105.76	25.94
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0005	EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	156.89	25.94
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0006	EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	180.03	25.94
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0007	EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	259.57	25.94
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0008	EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254)	291.86	25.94
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0009	EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272)	417.65	25.94
	For Halogen Lamps, Add	27.55	
	For Self-Diagnostics, Add	87.50	
26 52 00 00-0010 Remote Heads For Commercial Emergency Lights (26 52 00 00-0001)			
Note: For use with fixtures that have remote capability.			
26 52 00 00-0011	EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606)	96.62	15.57
26 52 00 00-0012	EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606)	97.20	15.57
26 52 00 00-0013	EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806)	99.15	15.57
26 52 00 00-0014	EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212)	98.83	15.57
26 52 00 00-0015	EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212)	86.85	15.57
26 52 00 00-0016	EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206)	63.04	15.57
26 52 00 00-0017 Industrial Emergency Lights (26 52)			
26 52 00 00-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0017)			
26 52 00 00-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0018)			
Note: Includes lead-calcium batteries and two adjustable lamp heads.			
26 52 00 00-0020	EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16)	242.00	25.94
	For Wireguard, Add	114.39	
26 52 00 00-0021	EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)	205.88	25.94
	For Wireguard, Add	114.39	
26 52 00 00-0022	EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)	311.45	25.94
	For Wireguard, Add	114.39	
26 52 00 00-0023	EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50)	329.67	25.94
	For Wireguard, Add	114.39	
26 52 00 00-0024	EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125)	463.29	25.94
	For Wireguard, Add	121.84	
26 52 00 00-0025	EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275)	718.90	25.94
	For Wireguard, Add	121.84	
26 52 00 00-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 00 00-0019)			
Note: For use with fixtures that have remote capability.			
26 52 00 00-0027	EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806)	76.76	15.57
	For Wireguard, Add	92.32	
26 52 00 00-0028	EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206)	79.03	15.57
	For Wireguard, Add	92.32	
26 52 00 00-0029	EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812)	77.08	15.57
	For Wireguard, Add	92.32	

26	Electrical
26 50	Lighting
26 52	Safety Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 00 00-0030	EA	12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	77.45	15.57
		<i>For Wireguard, Add</i>	92.32	
26 52 00 00-0031	EA	12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	79.03	15.57
		<i>For Wireguard, Add</i>	92.32	
26 52 00 00-0032	EA	12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	90.54	15.57
		<i>For Wireguard, Add</i>	92.32	
26 52 00 00-0033		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0017)		
26 52 00 00-0034		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0033) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 00 00-0035	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618).....	239.10	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0036	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	258.37	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0037	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	253.09	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0038	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	266.56	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0039	EA	100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	437.14	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 00 00-0040	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....	347.10	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 00 00-0041	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	386.71	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 00 00-0042	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	406.78	25.94
		<i>For Wireguard, Add</i>	111.22	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 00 00-0043		Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 00 00-0033) Note: For use with fixtures that have remote capability.		
26 52 00 00-0044	EA	9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	68.05	15.57
26 52 00 00-0045	EA	12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	72.64	15.57
26 52 00 00-0046	EA	9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	68.10	15.57
26 52 00 00-0047	EA	12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	71.48	15.57
26 52 00 00-0048	EA	12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	62.80	15.57
26 52 00 00-0049		Outdoor Emergency Lights (26 52)		
26 52 00 00-0050		Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights (26 52 00 00-0049) Note: Includes nickel-cadmium batteries.		
26 52 00 00-0051	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	366.38	25.94
26 52 00 00-0052	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	433.71	25.94
26 52 00 00-0053		Recessed Emergency Lights (26 52)		
26 52 00 00-0054	EA	10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	396.51	25.94
		<i>For Wire Guard, Add</i>	60.00	
26 52 00 00-0055	EA	16 Watts At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	336.25	51.88
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	121.84	



Electrical		26
Lighting		26 50
Safety Lighting		26 52

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 00 00-0056 EA 50 Watts At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4)..... Note: Includes lead-calcium batteries and two adjustable lamp heads. For Wireguard, Add	466.75 121.84	51.88
26 52 00 00-0057 Square Wraparound Emergency Lights (26 52)		
26 52 00 00-0058 EA 10 Watts At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ)	190.68	25.94
26 53 Exit Signs (26 50) Note: Excludes pendants.		
26 53 00 00-0001 LED Exit Signs (26 53) Note: Includes red LED lamps.		
26 53 00 00-0002 EA Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM)..... For Green LED Lamps, Add	128.69 15.00	37.93
26 53 00 00-0003 EA Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM)	128.69	37.93
For Green LED Lamps, Add	15.00	
26 53 00 00-0004 EA Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	168.21	37.93
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0005 EA Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	168.21	37.93
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0006 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	182.33	37.93
For Green LED Lamps, Add	15.00	
26 53 00 00-0007 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC)	202.93	37.93
For Green LED Lamps, Add	15.00	
26 53 00 00-0008 EA Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	173.72	37.93
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0009 EA Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN)	188.67	37.93
For Green LED Lamps, Add	15.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0010 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM)	225.24	37.93
Note: Includes two circular side mounted krypton emergency lights. For Green LED Lamps, Add	15.00	
26 53 00 00-0011 EA Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED)	313.91	37.93
Note: Includes two circular side mounted LED emergency lights. For Green LED Lamps, Add	15.00	
26 53 00 00-0012 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH)	270.56	37.93
Note: Includes two rectangular front mounted high intensity tungsten emergency lights. For Green LED Lamps, Add	15.00	
26 53 00 00-0013 EA Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	281.42	37.93
Note: Includes two circular side mounted PAR 36 emergency lights. For Green LED Lamps, Add	15.00	
26 53 00 00-0014 Edge-Lit LED Exit Signs (26 53) Note: Includes red LED lamps.		
26 53 00 00-0015 EA Single Face, Edge-Lit LED Exit Sign	244.76	37.93
For Green LED Lamps, Add	40.00	
26 53 00 00-0016 EA Double Face, Edge-Lit LED Exit Sign	260.65	37.93
For Green LED Lamps, Add	40.00	
26 53 00 00-0017 EA Single Face, Edge-Lit LED Exit Sign With Battery Back-Up	293.82	37.93
For Green LED Lamps, Add	40.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0018 EA Double Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	305.52	37.93
For Green LED Lamps, Add	40.00	
For Self-Diagnostics, Add	50.00	
26 53 00 00-0019 Self-Luminous Tritium Exit Signs (26 53) Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 53 00 00-0020 EA 10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign	323.01	37.93
26 53 00 00-0021 EA 10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	569.91	37.93
26 53 00 00-0022 EA 20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	379.25	37.93
26 53 00 00-0023 EA 20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	615.06	37.93
26 53 00 00-0024 EA 10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	351.00	37.93
26 53 00 00-0025 EA 10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	615.06	37.93
26 53 00 00-0026 EA 20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	424.15	37.93
26 53 00 00-0027 EA 20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign	756.60	37.93
26 53 00 00-0028 Vandal-Resistant LED Exit Signs (26 53) Note: Includes red LED lamps.		
26 53 00 00-0029 EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign.....	306.37	37.93
26 53 00 00-0030 EA Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup	459.27	37.93

26 Electrical**26 50 Lighting****26 53 Exit Signs**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 53 00 00-0031 EA Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	553.01	37.93
26 53 00 00-0032 Remove And Reinstall Exit Light Fixture (26 53)		
26 53 00 00-0033 EA Removal And Reinstall Of Exit Light Fixtures	77.82	
Note: Includes storage and cleaning.		
26 53 00 00-0034 Exit Sign Accessories (26 53)		
26 53 00 00-0035 EA Polycarbonate Vandal Shield For Exit Signs.....	73.57	10.39
26 53 00 00-0036 EA Wire Guard For Exit Signs Or Emergency Lights.....	45.97	10.39
26 53 00 00-0037 EA Wire Guard For Combination Exit Sign And Emergency Light.....	67.02	8.32
26 53 00 00-0038 EA Replacement Battery For Exit Signs	75.55	12.99
26 55 Special Purpose Lighting (26 50)		
26 55 61 Theatrical Lighting (26 55)		
26 55 61 00-0001 Stage Lighting (26 55 61)		
26 55 61 00-0002 EA Ellipsoidal Spotlight, Two 6" x 9" Lenses	398.67	126.16
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20A, 3W ground, male pin connector and high performance lamp.		
26 55 61 00-0003 EA Ellipsoidal Spotlight, Two 6" x 12" Lenses	398.67	126.16
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20A, 3W ground, male pin connector and high performance lamp.		
26 55 61 00-0004 EA Ellipsoidal Spotlight, Two 6" x 16" Lenses	398.67	126.16
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20A, 3W ground, male pin connector and high performance lamp.		
26 55 61 00-0005 EA 14" Scoop Floodlight Altman #SC14.....	411.38	126.16
26 55 61 00-0006 EA 6" Diameter Fresnel Spotlight, Spherical Specular Alzak	304.17	126.16
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, c-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0007 EA 8" Diameter Fresnel Spotlight, Spherical Specular Alzak	449.60	126.16
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, C-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0008 EA Follow Spotlight With Steel Chassis And Lightweight	1,196.67	126.16
Note: Aluminum housing, includes lamp adjustment plate, silent lamp fan, dowsler, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		
26 55 61 00-0009 EA Follow Spotlight With Steel Chassis And Lightweight	1,425.57	126.16
Note: Aluminum housing, includes lamp adjustment plate, ballast, electronic power supply, stepdown transformer, silent lamp fan, dowsler, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		
26 55 61 00-0010 EA PAR 64 Can Lighting With 20 Gauge Sheet Steel	268.42	126.16
Note: Formed lamp housing, hinged and latched rear housing secured by retention ring, safety cable, safety screen, PAR 64 lamp, male pin connector.		
26 55 61 00-0011 EA 6' Long Borderlight Sections	740.75	126.16
Note: With continuous sheet steel housing, supported by 1-1/2" x 3/16" steel yoke with C-clamp, includes 30 lights per section wired on 3 circuits, alzak aluminum reflector with matte finish.		
26 56 Exterior Lighting (26 50)		
26 56 13 Lighting Poles And Standards (26 56)		
26 56 13 00-0001 Poles And Standards (26 56 13)		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole, 26 56 19 00-0000 for street light fixtures.		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0004 Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005 Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006 Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,920.70	333.03
For Galvanized Finish, Add	67.64	
For >10 To 20, Deduct	-73.02	
For >20 To 40, Deduct	-146.04	
For >40, Deduct	-235.70	
26 56 13 00-0008 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,926.26	333.03
For Galvanized Finish, Add	67.81	
For >10 To 20, Deduct	-73.16	
For >20 To 40, Deduct	-146.31	
For >40, Deduct	-236.12	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,181.31	444.03
		For Galvanized Finish, Add	68.80	
		For >10 To 20, Deduct	-79.53	
		For >20 To 40, Deduct	-159.07	
		For >40, Deduct	-260.80	
26 56 13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,248.32	444.03
		For Galvanized Finish, Add	70.81	
		For >10 To 20, Deduct	-81.21	
		For >20 To 40, Deduct	-162.42	
		For >40, Deduct	-265.83	
26 56 13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,315.32	444.03
		For Galvanized Finish, Add	72.82	
		For >10 To 20, Deduct	-82.88	
		For >20 To 40, Deduct	-165.77	
		For >40, Deduct	-270.85	
26 56 13 00-0012	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,440.45	499.53
		For Galvanized Finish, Add	73.24	
		For >10 To 20, Deduct	-86.01	
		For >20 To 40, Deduct	-172.02	
		For >40, Deduct	-283.01	
26 56 13 00-0013	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,472.22	499.53
		For Galvanized Finish, Add	74.19	
		For >10 To 20, Deduct	-86.81	
		For >20 To 40, Deduct	-173.61	
		For >40, Deduct	-285.39	
26 56 13 00-0014	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,478.27	499.53
		For Galvanized Finish, Add	74.38	
		For >10 To 20, Deduct	-86.96	
		For >20 To 40, Deduct	-173.91	
		For >40, Deduct	-285.85	
26 56 13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,646.57	527.28
		For Galvanized Finish, Add	77.76	
		For >10 To 20, Deduct	-91.16	
		For >20 To 40, Deduct	-182.33	
		For >40, Deduct	-299.86	
26 56 13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,670.57	527.28
		For Galvanized Finish, Add	78.48	
		For >10 To 20, Deduct	-91.76	
		For >20 To 40, Deduct	-183.53	
		For >40, Deduct	-301.66	
26 56 13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,696.78	527.28
		For Galvanized Finish, Add	79.27	
		For >10 To 20, Deduct	-92.42	
		For >20 To 40, Deduct	-184.84	
		For >40, Deduct	-303.62	
26 56 13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,221.73	555.04
		For Galvanized Finish, Add	93.35	
		For >10 To 20, Deduct	-105.54	
		For >20 To 40, Deduct	-211.09	
		For >40, Deduct	-344.38	
26 56 13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,230.27	555.04
		For Galvanized Finish, Add	93.61	
		For >10 To 20, Deduct	-105.76	
		For >20 To 40, Deduct	-211.51	
		For >40, Deduct	-345.02	
26 56 13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,238.72	555.04
		For Galvanized Finish, Add	93.86	
		For >10 To 20, Deduct	-105.97	
		For >20 To 40, Deduct	-211.94	
		For >40, Deduct	-345.66	
26 56 13 00-0021		Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,639.87	388.53
		For Galvanized Finish, Add	85.88	
		For >10 To 20, Deduct	-91.00	
		For >20 To 40, Deduct	-181.99	
		For >40, Deduct	-292.42	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0023	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,703.42	402.41
			For Galvanized Finish, Add	86.96	
			For >10 To 20, Deduct	-92.59	
			For >20 To 40, Deduct	-185.17	
			For >40, Deduct	-297.88	
26 56 13 00-0024	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,758.16	416.28
			For Galvanized Finish, Add	87.77	
			For >10 To 20, Deduct	-93.95	
			For >20 To 40, Deduct	-187.91	
			For >40, Deduct	-302.68	
26 56 13 00-0025	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,629.76	499.53
			For Galvanized Finish, Add	78.92	
			For >10 To 20, Deduct	-90.74	
			For >20 To 40, Deduct	-181.49	
			For >40, Deduct	-297.21	
26 56 13 00-0026	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,671.72	513.41
			For Galvanized Finish, Add	79.35	
			For >10 To 20, Deduct	-91.79	
			For >20 To 40, Deduct	-183.59	
			For >40, Deduct	-301.05	
26 56 13 00-0027	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,705.23	527.28
			For Galvanized Finish, Add	79.52	
			For >10 To 20, Deduct	-92.63	
			For >20 To 40, Deduct	-185.26	
			For >40, Deduct	-304.26	
26 56 13 00-0028	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,916.26	555.04
			For Galvanized Finish, Add	84.19	
			For >10 To 20, Deduct	-97.91	
			For >20 To 40, Deduct	-195.81	
			For >40, Deduct	-321.47	
26 56 13 00-0029	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,952.65	568.91
			For Galvanized Finish, Add	84.44	
			For >10 To 20, Deduct	-98.82	
			For >20 To 40, Deduct	-197.63	
			For >40, Deduct	-324.89	
26 56 13 00-0030	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,985.87	582.79
			For Galvanized Finish, Add	84.61	
			For >10 To 20, Deduct	-99.65	
			For >20 To 40, Deduct	-199.29	
			For >40, Deduct	-328.08	
26 56 13 00-0031	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,155.60	582.79
			For Galvanized Finish, Add	89.70	
			For >10 To 20, Deduct	-103.89	
			For >20 To 40, Deduct	-207.78	
			For >40, Deduct	-340.81	
26 56 13 00-0032	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,220.50	596.66
			For Galvanized Finish, Add	90.82	
			For >10 To 20, Deduct	-105.51	
			For >20 To 40, Deduct	-211.03	
			For >40, Deduct	-346.37	
26 56 13 00-0033	EA		35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,283.48	610.55
			For Galvanized Finish, Add	91.87	
			For >10 To 20, Deduct	-107.09	
			For >20 To 40, Deduct	-214.17	
			For >40, Deduct	-351.79	
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,697.72	610.55
			For Galvanized Finish, Add	104.30	
			For >10 To 20, Deduct	-117.44	
			For >20 To 40, Deduct	-234.89	
			For >40, Deduct	-382.86	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,731.05	624.42
			For Galvanized Finish, Add	104.47	
			For >10 To 20, Deduct	-118.28	
			For >20 To 40, Deduct	-236.55	
			For >40, Deduct	-386.05	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,764.56	638.29
			For Galvanized Finish, Add	104.64	
			For >10 To 20, Deduct	-119.11	
			For >20 To 40, Deduct	-238.23	
			For >40, Deduct	-389.26	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0037		Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0038	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,267.04	555.04
		For Galvanized Finish, Add	94.71	
		For >10 To 20, Deduct	-106.68	
		For >20 To 40, Deduct	-213.35	
		For >40, Deduct	-347.78	
26 56 13 00-0039	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,328.20	582.79
		For Galvanized Finish, Add	94.88	
		For >10 To 20, Deduct	-108.21	
		For >20 To 40, Deduct	-216.41	
		For >40, Deduct	-353.75	
26 56 13 00-0040	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,397.82	610.55
		For Galvanized Finish, Add	95.30	
		For >10 To 20, Deduct	-109.95	
		For >20 To 40, Deduct	-219.89	
		For >40, Deduct	-360.36	
26 56 13 00-0041	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,519.54	610.55
		For Galvanized Finish, Add	98.95	
		For >10 To 20, Deduct	-112.99	
		For >20 To 40, Deduct	-225.98	
		For >40, Deduct	-369.49	
26 56 13 00-0042	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,583.41	638.29
		For Galvanized Finish, Add	99.20	
		For >10 To 20, Deduct	-114.59	
		For >20 To 40, Deduct	-229.17	
		For >40, Deduct	-375.67	
26 56 13 00-0043	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,644.57	666.04
		For Galvanized Finish, Add	99.37	
		For >10 To 20, Deduct	-116.11	
		For >20 To 40, Deduct	-232.23	
		For >40, Deduct	-381.65	
26 56 13 00-0044	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,806.80	638.29
		For Galvanized Finish, Add	105.91	
		For >10 To 20, Deduct	-120.17	
		For >20 To 40, Deduct	-240.34	
		For >40, Deduct	-392.42	
26 56 13 00-0045	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,867.96	666.04
		For Galvanized Finish, Add	106.08	
		For >10 To 20, Deduct	-121.70	
		For >20 To 40, Deduct	-243.40	
		For >40, Deduct	-398.40	
26 56 13 00-0046	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,929.14	693.80
		For Galvanized Finish, Add	106.25	
		For >10 To 20, Deduct	-123.23	
		For >20 To 40, Deduct	-246.46	
		For >40, Deduct	-404.38	
26 56 13 00-0047	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,173.72	666.04
		For Galvanized Finish, Add	115.25	
		For >10 To 20, Deduct	-129.34	
		For >20 To 40, Deduct	-258.69	
		For >40, Deduct	-421.33	
26 56 13 00-0048	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,234.61	693.80
		For Galvanized Finish, Add	115.41	
		For >10 To 20, Deduct	-130.87	
		For >20 To 40, Deduct	-261.73	
		For >40, Deduct	-427.29	
26 56 13 00-0049	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,301.43	721.55
		For Galvanized Finish, Add	115.75	
		For >10 To 20, Deduct	-132.54	
		For >20 To 40, Deduct	-265.07	
		For >40, Deduct	-433.68	
26 56 13 00-0050		Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0051	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,745.82	610.55
		For Galvanized Finish, Add	105.74	
		For >10 To 20, Deduct	-118.65	
		For >20 To 40, Deduct	-237.29	
		For >40, Deduct	-386.46	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,837.51	652.17
			For Galvanized Finish, Add	106.00	
			For >10 To 20, Deduct	-120.94	
			For >20 To 40, Deduct	-241.88	
			For >40, Deduct	-395.42	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	4,926.35	693.80
			For Galvanized Finish, Add	106.16	
			For >10 To 20, Deduct	-123.16	
			For >20 To 40, Deduct	-246.32	
			For >40, Deduct	-404.17	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,032.99	666.04
			For Galvanized Finish, Add	111.03	
			For >10 To 20, Deduct	-125.82	
			For >20 To 40, Deduct	-251.65	
			For >40, Deduct	-410.78	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,122.20	707.67
			For Galvanized Finish, Add	111.21	
			For >10 To 20, Deduct	-128.06	
			For >20 To 40, Deduct	-256.11	
			For >40, Deduct	-419.55	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,178.76	749.30
			For Galvanized Finish, Add	110.40	
			For >10 To 20, Deduct	-129.47	
			For >20 To 40, Deduct	-258.94	
			For >40, Deduct	-425.87	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,410.00	693.80
			For Galvanized Finish, Add	120.67	
			For >10 To 20, Deduct	-135.25	
			For >20 To 40, Deduct	-270.50	
			For >40, Deduct	-440.44	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,537.41	735.42
			For Galvanized Finish, Add	122.00	
			For >10 To 20, Deduct	-138.44	
			For >20 To 40, Deduct	-276.87	
			For >40, Deduct	-452.08	
26 56 13 00-0059	EA		35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,590.81	777.05
			For Galvanized Finish, Add	121.10	
			For >10 To 20, Deduct	-139.77	
			For >20 To 40, Deduct	-279.54	
			For >40, Deduct	-458.16	
26 56 13 00-0060	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,649.43	721.55
			For Galvanized Finish, Add	126.19	
			For >10 To 20, Deduct	-141.24	
			For >20 To 40, Deduct	-282.47	
			For >40, Deduct	-459.78	
26 56 13 00-0061	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,738.26	763.18
			For Galvanized Finish, Add	126.36	
			For >10 To 20, Deduct	-143.46	
			For >20 To 40, Deduct	-286.91	
			For >40, Deduct	-468.53	
26 56 13 00-0062	EA		40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,829.96	804.80
			For Galvanized Finish, Add	126.61	
			For >10 To 20, Deduct	-145.75	
			For >20 To 40, Deduct	-291.50	
			For >40, Deduct	-477.49	
26 56 13 00-0063			Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0004)		
26 56 13 00-0064			Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)		
26 56 13 00-0065	EA		25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,388.67	444.03
			For Galvanized Finish, Add	75.02	
			For >10 To 20, Deduct	-84.72	
			For >20 To 40, Deduct	-169.43	
			For >40, Deduct	-276.35	
26 56 13 00-0066	EA		30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,834.81	499.53
			For Galvanized Finish, Add	85.07	
			For >10 To 20, Deduct	-95.87	
			For >20 To 40, Deduct	-191.74	
			For >40, Deduct	-312.59	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	3,936.97	527.28
		For Galvanized Finish, Add	86.47	
		For >10 To 20, Deduct	-98.42	
		For >20 To 40, Deduct	-196.85	
		For >40, Deduct	-321.64	
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base.....	4,708.26	555.04
		For Galvanized Finish, Add	107.95	
		For >10 To 20, Deduct	-117.71	
		For >20 To 40, Deduct	-235.41	
		For >40, Deduct	-380.87	
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)		
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)		
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,389.66	444.03
		For Galvanized Finish, Add	105.05	
		For >10 To 20, Deduct	-109.74	
		For >20 To 40, Deduct	-219.48	
		For >40, Deduct	-351.43	
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,432.57	444.03
		For Galvanized Finish, Add	106.34	
		For >10 To 20, Deduct	-110.81	
		For >20 To 40, Deduct	-221.63	
		For >40, Deduct	-354.64	
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,452.16	444.03
		For Galvanized Finish, Add	106.92	
		For >10 To 20, Deduct	-111.30	
		For >20 To 40, Deduct	-222.61	
		For >40, Deduct	-356.11	
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,543.58	499.53
		For Galvanized Finish, Add	106.34	
		For >10 To 20, Deduct	-113.59	
		For >20 To 40, Deduct	-227.18	
		For >40, Deduct	-365.75	
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,551.07	499.53
		For Galvanized Finish, Add	106.56	
		For >10 To 20, Deduct	-113.78	
		For >20 To 40, Deduct	-227.55	
		For >40, Deduct	-366.31	
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,628.45	499.53
		For Galvanized Finish, Add	108.88	
		For >10 To 20, Deduct	-115.71	
		For >20 To 40, Deduct	-231.42	
		For >40, Deduct	-372.11	
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,624.52	527.28
		For Galvanized Finish, Add	107.10	
		For >10 To 20, Deduct	-115.61	
		For >20 To 40, Deduct	-231.23	
		For >40, Deduct	-373.20	
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,669.83	527.28
		For Galvanized Finish, Add	108.46	
		For >10 To 20, Deduct	-116.75	
		For >20 To 40, Deduct	-233.49	
		For >40, Deduct	-376.60	
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,907.43	527.28
		For Galvanized Finish, Add	115.59	
		For >10 To 20, Deduct	-122.69	
		For >20 To 40, Deduct	-245.37	
		For >40, Deduct	-394.42	
26 56 13 00-0080		Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0069)		
26 56 13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,753.31	555.04
		For Galvanized Finish, Add	139.30	
		For >10 To 20, Deduct	-143.83	
		For >20 To 40, Deduct	-287.67	
		For >40, Deduct	-459.25	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	5,849.90	582.79
		For Galvanized Finish, Add	140.53	
		For >10 To 20, Deduct	-146.25	
		For >20 To 40, Deduct	-292.50	
		For >40, Deduct	-467.88	
26 56 13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,066.68	610.55
		For Galvanized Finish, Add	145.37	
		For >10 To 20, Deduct	-151.67	
		For >20 To 40, Deduct	-303.33	
		For >40, Deduct	-485.53	
26 56 13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	5,840.50	610.55
		For Galvanized Finish, Add	138.58	
		For >10 To 20, Deduct	-146.01	
		For >20 To 40, Deduct	-292.03	
		For >40, Deduct	-468.56	
26 56 13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,108.27	638.29
		For Galvanized Finish, Add	144.95	
		For >10 To 20, Deduct	-152.71	
		For >20 To 40, Deduct	-305.41	
		For >40, Deduct	-490.04	
26 56 13 00-0086	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,268.22	666.04
		For Galvanized Finish, Add	148.08	
		For >10 To 20, Deduct	-156.71	
		For >20 To 40, Deduct	-313.41	
		For >40, Deduct	-503.42	
26 56 13 00-0087	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base	6,014.57	638.29
		For Galvanized Finish, Add	142.14	
		For >10 To 20, Deduct	-150.36	
		For >20 To 40, Deduct	-300.73	
		For >40, Deduct	-483.01	
26 56 13 00-0088	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base	6,372.86	666.04
		For Galvanized Finish, Add	151.22	
		For >10 To 20, Deduct	-159.32	
		For >20 To 40, Deduct	-318.64	
		For >40, Deduct	-511.27	
26 56 13 00-0089	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base	6,583.89	693.80
		For Galvanized Finish, Add	155.89	
		For >10 To 20, Deduct	-164.60	
		For >20 To 40, Deduct	-329.19	
		For >40, Deduct	-528.48	
26 56 13 00-0090		Aluminum Roadway Light Poles (26 56 13 00-0002) Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091		Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)		
26 56 13 00-0092		Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)		
26 56 13 00-0093		Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)		
26 56 13 00-0094	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,601.02	333.03
		For >10 To 20, Deduct	-65.03	
		For >20 To 40, Deduct	-130.05	
		For >40, Deduct	-211.73	
26 56 13 00-0095	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,624.44	333.03
		For >10 To 20, Deduct	-65.61	
		For >20 To 40, Deduct	-131.22	
		For >40, Deduct	-213.48	
26 56 13 00-0096	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,176.60	444.03
		For >10 To 20, Deduct	-79.42	
		For >20 To 40, Deduct	-158.83	
		For >40, Deduct	-260.45	
26 56 13 00-0097	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,220.86	444.03
		For >10 To 20, Deduct	-80.52	
		For >20 To 40, Deduct	-161.04	
		For >40, Deduct	-263.77	
26 56 13 00-0098	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,261.56	444.03
		For >10 To 20, Deduct	-81.54	
		For >20 To 40, Deduct	-163.08	
		For >40, Deduct	-266.82	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0099	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'			
		Upsweep Style Arm, Anchor Base.....	3,649.73	499.53	
		For >10 To 20, Deduct	-91.24		
		For >20 To 40, Deduct	-182.49		
		For >40, Deduct	-298.71		
26 56 13 00-0100	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'			
		Upsweep Style Arm, Anchor Base.....	3,687.07	499.53	
		For >10 To 20, Deduct	-92.18		
		For >20 To 40, Deduct	-184.35		
		For >40, Deduct	-301.51		
26 56 13 00-0101	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'			
		Upsweep Style Arm, Anchor Base.....	3,728.83	499.53	
		For >10 To 20, Deduct	-93.22		
		For >20 To 40, Deduct	-186.44		
		For >40, Deduct	-304.64		
26 56 13 00-0102	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4'			
		Upsweep Style Arm, Anchor Base.....	4,296.01	527.28	
		For >10 To 20, Deduct	-107.40		
		For >20 To 40, Deduct	-214.80		
		For >40, Deduct	-348.57		
26 56 13 00-0103	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6'			
		Upsweep Style Arm, Anchor Base.....	4,333.26	527.28	
		For >10 To 20, Deduct	-108.33		
		For >20 To 40, Deduct	-216.66		
		For >40, Deduct	-351.36		
26 56 13 00-0104	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8'			
		Upsweep Style Arm, Anchor Base.....	4,364.46	527.28	
		For >10 To 20, Deduct	-109.11		
		For >20 To 40, Deduct	-218.22		
		For >40, Deduct	-353.70		
26 56 13 00-0105		Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms			
		(26 56 13 00-0092)			
26 56 13 00-0106	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'			
		Upsweep Style Arms, Anchor Base.....	2,977.95	388.53	
		For >10 To 20, Deduct	-74.45		
		For >20 To 40, Deduct	-148.90		
		For >40, Deduct	-242.77		
26 56 13 00-0107	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'			
		Upsweep Style Arms, Anchor Base.....	3,207.48	388.53	
		For >10 To 20, Deduct	-80.19		
		For >20 To 40, Deduct	-160.37		
		For >40, Deduct	-259.99		
26 56 13 00-0108	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'			
		Upsweep Style Arms, Anchor Base.....	3,307.73	416.28	
		For >10 To 20, Deduct	-82.69		
		For >20 To 40, Deduct	-165.39		
		For >40, Deduct	-268.89		
26 56 13 00-0109	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'			
		Upsweep Style Arms, Anchor Base.....	3,540.96	499.53	
		For >10 To 20, Deduct	-88.52		
		For >20 To 40, Deduct	-177.05		
		For >40, Deduct	-290.55		
26 56 13 00-0110	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'			
		Upsweep Style Arms, Anchor Base.....	3,714.82	513.41	
		For >10 To 20, Deduct	-92.87		
		For >20 To 40, Deduct	-185.74		
		For >40, Deduct	-304.28		
26 56 13 00-0111	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'			
		Upsweep Style Arms, Anchor Base.....	3,967.69	527.28	
		For >10 To 20, Deduct	-99.19		
		For >20 To 40, Deduct	-198.38		
		For >40, Deduct	-323.94		
26 56 13 00-0112	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'			
		Upsweep Style Arms, Anchor Base.....	4,094.53	555.04	
		For >10 To 20, Deduct	-102.36		
		For >20 To 40, Deduct	-204.73		
		For >40, Deduct	-334.84		
26 56 13 00-0113	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6'			
		Upsweep Style Arms, Anchor Base.....	4,257.83	568.91	
		For >10 To 20, Deduct	-106.45		
		For >20 To 40, Deduct	-212.89		
		For >40, Deduct	-347.78		
26 56 13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8'			
		Upsweep Style Arms, Anchor Base.....	4,458.19	582.79	
		For >10 To 20, Deduct	-111.45		
		For >20 To 40, Deduct	-222.91		
		For >40, Deduct	-363.50		
26 56 13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4'			
		Upsweep Style Arms, Anchor Base.....	4,661.23	582.79	
		For >10 To 20, Deduct	-116.53		
		For >20 To 40, Deduct	-233.06		
		For >40, Deduct	-378.73		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	5,111.57	596.66
		For >10 To 20, Deduct	-127.79	
		For >20 To 40, Deduct	-255.58	
		For >40, Deduct	-413.20	
26 56 13 00-0117	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	5,636.12	610.55
		For >10 To 20, Deduct	-140.90	
		For >20 To 40, Deduct	-281.81	
		For >40, Deduct	-453.24	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	3,458.46	444.03
		For >10 To 20, Deduct	-86.46	
		For >20 To 40, Deduct	-172.92	
		For >40, Deduct	-281.59	
26 56 13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	3,699.62	471.79
		For >10 To 20, Deduct	-92.49	
		For >20 To 40, Deduct	-184.98	
		For >40, Deduct	-301.06	
26 56 13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,200.22	555.04
		For >10 To 20, Deduct	-105.01	
		For >20 To 40, Deduct	-210.01	
		For >40, Deduct	-342.77	
26 56 13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,378.51	582.79
		For >10 To 20, Deduct	-109.46	
		For >20 To 40, Deduct	-218.93	
		For >40, Deduct	-357.53	
26 56 13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,585.40	610.55
		For >10 To 20, Deduct	-114.64	
		For >20 To 40, Deduct	-229.27	
		For >40, Deduct	-374.43	
26 56 13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,746.61	638.29
		For >10 To 20, Deduct	-118.67	
		For >20 To 40, Deduct	-237.33	
		For >40, Deduct	-387.91	
26 56 13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,966.45	638.29
		For >10 To 20, Deduct	-124.16	
		For >20 To 40, Deduct	-248.32	
		For >40, Deduct	-404.40	
26 56 13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,412.09	666.04
		For >10 To 20, Deduct	-135.30	
		For >20 To 40, Deduct	-270.60	
		For >40, Deduct	-439.21	
26 56 13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	6,242.67	693.80
		For >10 To 20, Deduct	-156.07	
		For >20 To 40, Deduct	-312.13	
		For >40, Deduct	-502.89	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)				
26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	3,568.89	499.53
		For >10 To 20, Deduct	-89.22	
		For >20 To 40, Deduct	-178.44	
		For >40, Deduct	-292.64	
26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	3,709.44	499.53
		For >10 To 20, Deduct	-92.74	
		For >20 To 40, Deduct	-185.47	
		For >40, Deduct	-303.18	
26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,594.14	610.55
		For >10 To 20, Deduct	-114.85	
		For >20 To 40, Deduct	-229.71	
		For >40, Deduct	-375.09	
26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,977.00	652.17
		For >10 To 20, Deduct	-124.43	
		For >20 To 40, Deduct	-248.85	
		For >40, Deduct	-405.88	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0133	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,196.19	666.04
			For >10 To 20, Deduct	-129.90	
			For >20 To 40, Deduct	-259.81	
			For >40, Deduct	-423.02	
26 56 13 00-0134	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,547.96	707.67
			For >10 To 20, Deduct	-138.70	
			For >20 To 40, Deduct	-277.40	
			For >40, Deduct	-451.48	
26 56 13 00-0135	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,474.51	693.80
			For >10 To 20, Deduct	-136.86	
			For >20 To 40, Deduct	-273.73	
			For >40, Deduct	-445.28	
26 56 13 00-0136	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,245.79	735.42
			For >10 To 20, Deduct	-156.14	
			For >20 To 40, Deduct	-312.29	
			For >40, Deduct	-505.21	
26 56 13 00-0137	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,925.98	777.05
			For >10 To 20, Deduct	-173.15	
			For >20 To 40, Deduct	-346.30	
			For >40, Deduct	-558.30	
26 56 13 00-0138			Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms ^(26 56 13 00-0091)		
26 56 13 00-0139			Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm ^(26 56 13 00-0138)		
26 56 13 00-0140	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,826.91	444.03
			For >10 To 20, Deduct	-95.67	
			For >20 To 40, Deduct	-191.35	
			For >40, Deduct	-309.22	
26 56 13 00-0141	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,858.20	444.03
			For >10 To 20, Deduct	-96.46	
			For >20 To 40, Deduct	-192.91	
			For >40, Deduct	-311.57	
26 56 13 00-0142	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,938.17	444.03
			For >10 To 20, Deduct	-98.45	
			For >20 To 40, Deduct	-196.91	
			For >40, Deduct	-317.56	
26 56 13 00-0143	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,058.17	444.03
			For >10 To 20, Deduct	-101.45	
			For >20 To 40, Deduct	-202.91	
			For >40, Deduct	-326.56	
26 56 13 00-0144	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,308.96	499.53
			For >10 To 20, Deduct	-107.72	
			For >20 To 40, Deduct	-215.45	
			For >40, Deduct	-348.15	
26 56 13 00-0145	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,379.52	499.53
			For >10 To 20, Deduct	-109.49	
			For >20 To 40, Deduct	-218.98	
			For >40, Deduct	-353.44	
26 56 13 00-0146	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,454.78	499.53
			For >10 To 20, Deduct	-111.37	
			For >20 To 40, Deduct	-222.74	
			For >40, Deduct	-359.09	
26 56 13 00-0147	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,908.77	499.53
			For >10 To 20, Deduct	-122.72	
			For >20 To 40, Deduct	-245.44	
			For >40, Deduct	-393.13	
26 56 13 00-0148	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,687.31	527.28
			For >10 To 20, Deduct	-117.18	
			For >20 To 40, Deduct	-234.37	
			For >40, Deduct	-377.91	
26 56 13 00-0149	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,269.83	527.28
			For >10 To 20, Deduct	-131.75	
			For >20 To 40, Deduct	-263.49	
			For >40, Deduct	-421.60	
26 56 13 00-0150	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,326.57	527.28
			For >10 To 20, Deduct	-133.16	
			For >20 To 40, Deduct	-266.33	
			For >40, Deduct	-425.86	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,686.76	527.28
		For >10 To 20, Deduct	-142.17	
		For >20 To 40, Deduct	-284.34	
		For >40, Deduct	-452.87	
26 56 13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,015.27	527.28
		For >10 To 20, Deduct	-150.38	
		For >20 To 40, Deduct	-300.76	
		For >40, Deduct	-477.51	
26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms				
		(26 56 13 00-0138)		
26 56 13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,974.18	555.04
		For >10 To 20, Deduct	-124.35	
		For >20 To 40, Deduct	-248.71	
		For >40, Deduct	-400.82	
26 56 13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,109.64	582.79
		For >10 To 20, Deduct	-127.74	
		For >20 To 40, Deduct	-255.48	
		For >40, Deduct	-412.36	
26 56 13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,216.60	610.55
		For >10 To 20, Deduct	-130.42	
		For >20 To 40, Deduct	-260.83	
		For >40, Deduct	-421.77	
26 56 13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,353.69	610.55
		For >10 To 20, Deduct	-133.84	
		For >20 To 40, Deduct	-267.68	
		For >40, Deduct	-432.05	
26 56 13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,826.03	638.29
		For >10 To 20, Deduct	-145.65	
		For >20 To 40, Deduct	-291.30	
		For >40, Deduct	-468.87	
26 56 13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,703.96	666.04
		For >10 To 20, Deduct	-167.60	
		For >20 To 40, Deduct	-335.20	
		For >40, Deduct	-536.10	
26 56 13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,485.65	638.29
		For >10 To 20, Deduct	-162.14	
		For >20 To 40, Deduct	-324.28	
		For >40, Deduct	-518.34	
26 56 13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,608.15	666.04
		For >10 To 20, Deduct	-165.20	
		For >20 To 40, Deduct	-330.41	
		For >40, Deduct	-528.91	
26 56 13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	8,070.06	693.80
		For >10 To 20, Deduct	-201.75	
		For >20 To 40, Deduct	-403.50	
		For >40, Deduct	-639.94	
26 56 13 00-0163 Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm				
		(26 56 13 00-0091)		
26 56 13 00-0164 Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm				
		(26 56 13 00-0163)		
26 56 13 00-0165	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,148.02	333.03
		For >10 To 20, Deduct	-78.70	
		For >20 To 40, Deduct	-157.40	
		For >40, Deduct	-252.75	
26 56 13 00-0166	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,236.44	333.03
		For >10 To 20, Deduct	-80.91	
		For >20 To 40, Deduct	-161.82	
		For >40, Deduct	-259.38	
26 56 13 00-0167	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,325.05	333.03
		For >10 To 20, Deduct	-83.13	
		For >20 To 40, Deduct	-166.25	
		For >40, Deduct	-266.03	
26 56 13 00-0168	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,731.58	444.03
		For >10 To 20, Deduct	-93.29	
		For >20 To 40, Deduct	-186.58	
		For >40, Deduct	-302.07	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0169 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,798.97 -94.97 -189.95 -307.12	444.03
26 56 13 00-0170 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,872.60 -96.82 -193.63 -312.65	444.03
26 56 13 00-0171 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,212.00 -105.30 -210.60 -340.88	499.53
26 56 13 00-0172 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,303.49 -107.59 -215.17 -347.74	499.53
26 56 13 00-0173 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,317.21 -107.93 -215.86 -348.77	499.53
26 56 13 00-0174 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,593.03 -114.83 -229.65 -370.84	527.28
26 56 13 00-0175 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,633.16 -115.83 -231.66 -373.85	527.28
26 56 13 00-0176 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,727.24 -118.18 -236.36 -380.91	527.28
26 56 13 00-0177 Area Light Poles (26 56 13 00-0001)		
26 56 13 00-0178 Steel Area Light Poles (26 56 13 00-0177) Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179 Round Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0180 Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)		
26 56 13 00-0181 EA 10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	785.63 11.91 -25.60 -47.22 -98.42	194.27
26 56 13 00-0182 EA 12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	863.13 12.57 -27.86 -51.54 -107.27	222.01
26 56 13 00-0183 EA 14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	965.93 13.99 -31.14 -57.62 -119.91	249.77
26 56 13 00-0184 EA 16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,070.94 15.48 -34.51 -63.87 -132.89	277.52
26 56 13 00-0185 EA 18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,148.45 16.14 -36.78 -68.18 -141.74	305.27
26 56 13 00-0186 EA 20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,220.44 16.63 -38.83 -72.11 -149.76	333.03
26 56 13 00-0187 EA 10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	814.23 12.77 -26.74 -49.23 -102.71	194.27

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0188 EA 12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	892.83	222.01
For Galvanized Finish, Add	13.46	
For >10 To 20, Deduct	-29.05	
For >20 To 40, Deduct	-53.62	
For >40, Deduct	-111.72	
26 56 13 00-0189 EA 14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,025.33	249.77
For Galvanized Finish, Add	15.77	
For >10 To 20, Deduct	-33.52	
For >20 To 40, Deduct	-61.78	
For >40, Deduct	-128.82	
26 56 13 00-0190 EA 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,109.44	277.52
For Galvanized Finish, Add	16.63	
For >10 To 20, Deduct	-36.05	
For >20 To 40, Deduct	-66.56	
For >40, Deduct	-138.66	
26 56 13 00-0191 EA 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,190.25	305.27
For Galvanized Finish, Add	17.39	
For >10 To 20, Deduct	-38.45	
For >20 To 40, Deduct	-71.11	
For >40, Deduct	-148.01	
26 56 13 00-0192 EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,260.04	333.03
For Galvanized Finish, Add	17.82	
For >10 To 20, Deduct	-40.41	
For >20 To 40, Deduct	-74.88	
For >40, Deduct	-155.70	
26 56 13 00-0193 EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,522.76	444.03
For Galvanized Finish, Add	19.04	
For >10 To 20, Deduct	-47.59	
For >20 To 40, Deduct	-88.83	
For >40, Deduct	-184.01	
26 56 13 00-0194 EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	814.23	194.27
For Galvanized Finish, Add	12.77	
For >10 To 20, Deduct	-26.74	
For >20 To 40, Deduct	-49.23	
For >40, Deduct	-102.71	
26 56 13 00-0195 EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	896.13	222.01
For Galvanized Finish, Add	13.56	
For >10 To 20, Deduct	-29.18	
For >20 To 40, Deduct	-53.85	
For >40, Deduct	-112.22	
26 56 13 00-0196 EA 14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,042.93	249.77
For Galvanized Finish, Add	16.30	
For >10 To 20, Deduct	-34.22	
For >20 To 40, Deduct	-63.01	
For >40, Deduct	-131.46	
26 56 13 00-0197 EA 16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,112.74	277.52
For Galvanized Finish, Add	16.73	
For >10 To 20, Deduct	-36.18	
For >20 To 40, Deduct	-66.79	
For >40, Deduct	-139.16	
26 56 13 00-0198 EA 18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,190.25	305.27
For Galvanized Finish, Add	17.39	
For >10 To 20, Deduct	-38.45	
For >20 To 40, Deduct	-71.11	
For >40, Deduct	-148.01	
26 56 13 00-0199 EA 20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,260.04	333.03
For Galvanized Finish, Add	17.82	
For >10 To 20, Deduct	-40.41	
For >20 To 40, Deduct	-74.88	
For >40, Deduct	-155.70	
26 56 13 00-0200 EA 25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,553.56	444.03
For Galvanized Finish, Add	19.97	
For >10 To 20, Deduct	-48.82	
For >20 To 40, Deduct	-90.99	
For >40, Deduct	-188.63	
26 56 13 00-0201 EA 30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,721.77	499.53
For Galvanized Finish, Add	21.68	
For >10 To 20, Deduct	-53.88	
For >20 To 40, Deduct	-100.54	
For >40, Deduct	-208.31	
26 56 13 00-0202 EA 20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,330.44	333.03
For Galvanized Finish, Add	19.93	
For >10 To 20, Deduct	-43.23	
For >20 To 40, Deduct	-79.81	
For >40, Deduct	-166.26	
26 56 13 00-0203 EA 25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,567.86	444.03
For Galvanized Finish, Add	20.39	
For >10 To 20, Deduct	-49.39	
For >20 To 40, Deduct	-91.99	
For >40, Deduct	-190.78	
26 56 13 00-0204 EA 30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,749.27	499.53
For Galvanized Finish, Add	22.51	
For >10 To 20, Deduct	-54.98	
For >20 To 40, Deduct	-102.47	
For >40, Deduct	-212.44	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0205 Round Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0206 Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)		
26 56 13 00-0207 EA 20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,579.04	333.03
For Galvanized Finish, Add	27.39	
For >10 To 20, Deduct	-53.17	
For >20 To 40, Deduct	-97.21	
For >40, Deduct	-203.55	
26 56 13 00-0208 EA 20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,613.14	333.03
For Galvanized Finish, Add	28.41	
For >10 To 20, Deduct	-54.54	
For >20 To 40, Deduct	-99.60	
For >40, Deduct	-208.67	
26 56 13 00-0209 EA 25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,909.96	444.03
For Galvanized Finish, Add	30.66	
For >10 To 20, Deduct	-63.08	
For >20 To 40, Deduct	-115.94	
For >40, Deduct	-242.09	
26 56 13 00-0210 EA 25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	1,980.36	444.03
For Galvanized Finish, Add	32.77	
For >10 To 20, Deduct	-65.89	
For >20 To 40, Deduct	-120.86	
For >40, Deduct	-252.65	
26 56 13 00-0211 EA 30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,130.97	499.53
For Galvanized Finish, Add	33.96	
For >10 To 20, Deduct	-70.25	
For >20 To 40, Deduct	-129.19	
For >40, Deduct	-269.69	
26 56 13 00-0212 EA 30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,248.67	499.53
For Galvanized Finish, Add	37.49	
For >10 To 20, Deduct	-74.96	
For >20 To 40, Deduct	-137.43	
For >40, Deduct	-287.35	
26 56 13 00-0213 EA 35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,328.37	527.28
For Galvanized Finish, Add	38.21	
For >10 To 20, Deduct	-77.32	
For >20 To 40, Deduct	-141.89	
For >40, Deduct	-296.53	
26 56 13 00-0214 EA 35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,400.97	527.28
For Galvanized Finish, Add	40.39	
For >10 To 20, Deduct	-80.22	
For >20 To 40, Deduct	-146.98	
For >40, Deduct	-307.42	
26 56 13 00-0215 EA 35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,574.77	527.28
For Galvanized Finish, Add	45.61	
For >10 To 20, Deduct	-87.17	
For >20 To 40, Deduct	-159.14	
For >40, Deduct	-333.49	
26 56 13 00-0216 EA 39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,617.08	555.04
For Galvanized Finish, Add	45.21	
For >10 To 20, Deduct	-88.03	
For >20 To 40, Deduct	-160.99	
For >40, Deduct	-337.06	
26 56 13 00-0217 EA 39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,647.88	555.04
For Galvanized Finish, Add	46.13	
For >10 To 20, Deduct	-89.26	
For >20 To 40, Deduct	-163.15	
For >40, Deduct	-341.68	
26 56 13 00-0218 EA 45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,573.79	721.55
For Galvanized Finish, Add	63.92	
For >10 To 20, Deduct	-121.31	
For >20 To 40, Deduct	-221.30	
For >40, Deduct	-463.91	
26 56 13 00-0219 EA 50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,789.22	832.56
For Galvanized Finish, Add	63.72	
For >10 To 20, Deduct	-126.59	
For >20 To 40, Deduct	-231.94	
For >40, Deduct	-485.13	
26 56 13 00-0220 EA 25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,457.76	444.03
For Galvanized Finish, Add	47.09	
For >10 To 20, Deduct	-84.99	
For >20 To 40, Deduct	-154.28	
For >40, Deduct	-324.26	
26 56 13 00-0221 EA 30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	2,786.57	499.53
For Galvanized Finish, Add	53.63	
For >10 To 20, Deduct	-96.48	
For >20 To 40, Deduct	-175.08	
For >40, Deduct	-368.03	
26 56 13 00-0222 EA 39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,209.98	555.04
For Galvanized Finish, Add	63.00	
For >10 To 20, Deduct	-111.75	
For >20 To 40, Deduct	-202.50	
For >40, Deduct	-425.99	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0223	EA		45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,916.99	721.55
			For Galvanized Finish, Add	74.22	
			For >10 To 20, Deduct	-135.03	
			For >20 To 40, Deduct	-245.33	
			For >40, Deduct	-515.39	
26 56 13 00-0224	EA		50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,563.62	832.56
			For Galvanized Finish, Add	86.96	
			For >10 To 20, Deduct	-157.57	
			For >20 To 40, Deduct	-286.15	
			For >40, Deduct	-601.29	
26 56 13 00-0225	EA		50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,011.32	832.56
			For Galvanized Finish, Add	100.39	
			For >10 To 20, Deduct	-175.48	
			For >20 To 40, Deduct	-317.49	
			For >40, Deduct	-668.44	
26 56 13 00-0226	EA		50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,507.32	832.56
			For Galvanized Finish, Add	145.27	
			For >10 To 20, Deduct	-235.32	
			For >20 To 40, Deduct	-422.21	
			For >40, Deduct	-892.84	
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,233.32	832.56
			For Galvanized Finish, Add	167.05	
			For >10 To 20, Deduct	-264.36	
			For >20 To 40, Deduct	-473.03	
			For >40, Deduct	-1,001.74	
26 56 13 00-0228			Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0229			Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)		
26 56 13 00-0230	EA		10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	776.83	194.27
			For Galvanized Finish, Add	11.65	
			For >10 To 20, Deduct	-25.25	
			For >20 To 40, Deduct	-46.61	
			For >40, Deduct	-97.10	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	832.33	222.01
			For Galvanized Finish, Add	11.65	
			For >10 To 20, Deduct	-26.63	
			For >20 To 40, Deduct	-49.38	
			For >40, Deduct	-102.65	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	906.53	249.77
			For Galvanized Finish, Add	12.21	
			For >10 To 20, Deduct	-28.77	
			For >20 To 40, Deduct	-53.47	
			For >40, Deduct	-111.00	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	960.68	263.65
			For Galvanized Finish, Add	13.00	
			For >10 To 20, Deduct	-30.52	
			For >20 To 40, Deduct	-56.70	
			For >40, Deduct	-117.74	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	988.44	277.52
			For Galvanized Finish, Add	13.00	
			For >10 To 20, Deduct	-31.21	
			For >20 To 40, Deduct	-58.09	
			For >40, Deduct	-120.51	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,056.05	305.27
			For Galvanized Finish, Add	13.37	
			For >10 To 20, Deduct	-33.08	
			For >20 To 40, Deduct	-61.71	
			For >40, Deduct	-127.88	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,121.44	333.03
			For Galvanized Finish, Add	13.66	
			For >10 To 20, Deduct	-34.87	
			For >20 To 40, Deduct	-65.18	
			For >40, Deduct	-134.91	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,409.46	444.03
			For Galvanized Finish, Add	15.64	
			For >10 To 20, Deduct	-43.06	
			For >20 To 40, Deduct	-80.90	
			For >40, Deduct	-167.02	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,269.94	333.03
			For Galvanized Finish, Add	18.12	
			For >10 To 20, Deduct	-40.81	
			For >20 To 40, Deduct	-75.58	
			For >40, Deduct	-157.19	
26 56 13 00-0239	EA		25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,614.06	444.03
			For Galvanized Finish, Add	21.78	
			For >10 To 20, Deduct	-51.24	
			For >20 To 40, Deduct	-95.22	
			For >40, Deduct	-197.71	
26 56 13 00-0240	EA		30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,844.97	499.53
			For Galvanized Finish, Add	25.38	
			For >10 To 20, Deduct	-58.81	
			For >20 To 40, Deduct	-109.17	
			For >40, Deduct	-226.79	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0241 EA 20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,229.24 16.90 -39.18 -72.73 -151.08	333.03
26 56 13 00-0242 EA 25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,534.86 19.40 -48.07 -89.68 -185.83	444.03
26 56 13 00-0243 EA 30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,776.77 23.33 -56.08 -104.39 -216.56	499.53
26 56 13 00-0244 EA 20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,368.94 21.09 -44.77 -82.51 -172.04	333.03
26 56 13 00-0245 EA 25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,713.06 24.75 -55.20 -102.15 -212.56	444.03
26 56 13 00-0246 EA 30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,938.47 28.18 -62.55 -115.71 -240.82	499.53
26 56 13 00-0247 EA 35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,130.37 32.27 -69.40 -128.03 -266.83	527.28
26 56 13 00-0248 EA 30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,155.17 34.68 -71.22 -130.88 -273.32	499.53
26 56 13 00-0249 EA 35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,348.17 38.81 -78.11 -143.28 -299.50	527.28
26 56 13 00-0250 EA 40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,481.78 41.15 -82.62 -151.52 -316.76	555.04
26 56 13 00-0251 Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0252 Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)		
26 56 13 00-0253 EA 20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,490.07 54.72 -89.61 -160.98 -340.21	333.03
26 56 13 00-0254 EA 25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,836.11 58.44 -100.12 -180.77 -381.01	444.03
26 56 13 00-0255 EA 30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,873.76 86.24 -139.96 -251.18 -531.11	499.53
26 56 13 00-0256 EA 20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,534.53 56.05 -91.39 -164.10 -346.88	333.03
26 56 13 00-0257 EA 25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	3,094.68 66.20 -110.47 -198.87 -419.80	444.03
26 56 13 00-0258 EA 30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,258.69 97.79 -155.36 -278.13 -588.85	499.53

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,851.22	527.28
			For Galvanized Finish, Add	113.90	
			For >10 To 20, Deduct	-178.23	
			For >20 To 40, Deduct	-318.49	
			For >40, Deduct	-674.95	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,652.02	555.04
			For Galvanized Finish, Add	136.26	
			For >10 To 20, Deduct	-209.43	
			For >20 To 40, Deduct	-373.44	
			For >40, Deduct	-792.30	
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,419.87	333.03
			For Galvanized Finish, Add	52.61	
			For >10 To 20, Deduct	-86.80	
			For >20 To 40, Deduct	-156.07	
			For >40, Deduct	-329.68	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,723.79	444.03
			For Galvanized Finish, Add	55.07	
			For >10 To 20, Deduct	-95.63	
			For >20 To 40, Deduct	-172.90	
			For >40, Deduct	-364.17	
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,676.03	499.53
			For Galvanized Finish, Add	80.31	
			For >10 To 20, Deduct	-132.06	
			For >20 To 40, Deduct	-237.34	
			For >40, Deduct	-501.45	
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,500.60	333.03
			For Galvanized Finish, Add	55.04	
			For >10 To 20, Deduct	-90.03	
			For >20 To 40, Deduct	-161.72	
			For >40, Deduct	-341.79	
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,989.38	444.03
			For Galvanized Finish, Add	63.04	
			For >10 To 20, Deduct	-106.25	
			For >20 To 40, Deduct	-191.50	
			For >40, Deduct	-404.00	
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	4,112.44	499.53
			For Galvanized Finish, Add	93.40	
			For >10 To 20, Deduct	-149.51	
			For >20 To 40, Deduct	-267.89	
			For >40, Deduct	-566.91	
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	2,624.62	333.03
			For Galvanized Finish, Add	58.76	
			For >10 To 20, Deduct	-94.99	
			For >20 To 40, Deduct	-170.40	
			For >40, Deduct	-360.39	
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	3,212.85	444.03
			For Galvanized Finish, Add	69.74	
			For >10 To 20, Deduct	-115.19	
			For >20 To 40, Deduct	-207.14	
			For >40, Deduct	-437.52	
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,375.69	499.53
			For Galvanized Finish, Add	101.30	
			For >10 To 20, Deduct	-160.04	
			For >20 To 40, Deduct	-286.32	
			For >40, Deduct	-606.40	
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,993.96	527.28
			For Galvanized Finish, Add	118.18	
			For >10 To 20, Deduct	-183.94	
			For >20 To 40, Deduct	-328.49	
			For >40, Deduct	-696.37	
26 56 13 00-0271	EA		39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,728.07	555.04
			For Galvanized Finish, Add	138.54	
			For >10 To 20, Deduct	-212.47	
			For >20 To 40, Deduct	-378.76	
			For >40, Deduct	-803.71	
26 56 13 00-0272			Square Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0273			Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)		
26 56 13 00-0274	EA		20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	1,949.74	333.03
			For Galvanized Finish, Add	38.51	
			For >10 To 20, Deduct	-68.00	
			For >20 To 40, Deduct	-123.16	
			For >40, Deduct	-259.16	
26 56 13 00-0275	EA		25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,398.36	444.03
			For Galvanized Finish, Add	45.31	
			For >10 To 20, Deduct	-82.61	
			For >20 To 40, Deduct	-150.12	
			For >40, Deduct	-315.35	
26 56 13 00-0276	EA		30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,673.27	499.53
			For Galvanized Finish, Add	50.23	
			For >10 To 20, Deduct	-91.94	
			For >20 To 40, Deduct	-167.15	
			For >40, Deduct	-351.04	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0277	EA	35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	2,945.47	527.28
		For Galvanized Finish, Add	56.73	
		For >10 To 20, Deduct	-102.00	
		For >20 To 40, Deduct	-185.09	
		For >40, Deduct	-389.09	
26 56 13 00-0278	EA	39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,104.38	555.04
		For Galvanized Finish, Add	59.83	
		For >10 To 20, Deduct	-107.52	
		For >20 To 40, Deduct	-195.11	
		For >40, Deduct	-410.15	
26 56 13 00-0279	EA	20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	2,443.64	333.03
		For Galvanized Finish, Add	53.33	
		For >10 To 20, Deduct	-87.76	
		For >20 To 40, Deduct	-157.73	
		For >40, Deduct	-333.24	
26 56 13 00-0280	EA	25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	2,785.56	444.03
		For Galvanized Finish, Add	56.93	
		For >10 To 20, Deduct	-98.10	
		For >20 To 40, Deduct	-177.23	
		For >40, Deduct	-373.43	
26 56 13 00-0281	EA	30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	2,990.07	499.53
		For Galvanized Finish, Add	59.73	
		For >10 To 20, Deduct	-104.62	
		For >20 To 40, Deduct	-189.32	
		For >40, Deduct	-398.56	
26 56 13 00-0282	EA	30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,280.47	499.53
		For Galvanized Finish, Add	68.44	
		For >10 To 20, Deduct	-116.23	
		For >20 To 40, Deduct	-209.65	
		For >40, Deduct	-442.12	
26 56 13 00-0283	EA	35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,544.97	527.28
		For Galvanized Finish, Add	74.71	
		For >10 To 20, Deduct	-125.98	
		For >20 To 40, Deduct	-227.06	
		For >40, Deduct	-479.02	
26 56 13 00-0284	EA	35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,904.67	527.28
		For Galvanized Finish, Add	85.50	
		For >10 To 20, Deduct	-140.37	
		For >20 To 40, Deduct	-252.24	
		For >40, Deduct	-532.97	
26 56 13 00-0285	EA	39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	3,616.98	555.04
		For Galvanized Finish, Add	75.21	
		For >10 To 20, Deduct	-128.03	
		For >20 To 40, Deduct	-230.99	
		For >40, Deduct	-487.04	
26 56 13 00-0286	EA	39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,502.48	555.04
		For Galvanized Finish, Add	101.77	
		For >10 To 20, Deduct	-163.45	
		For >20 To 40, Deduct	-292.97	
		For >40, Deduct	-619.87	
26 56 13 00-0287	EA	45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,322.89	721.55
		For Galvanized Finish, Add	86.39	
		For >10 To 20, Deduct	-151.27	
		For >20 To 40, Deduct	-273.74	
		For >40, Deduct	-576.28	
26 56 13 00-0288	EA	45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	4,926.79	721.55
		For Galvanized Finish, Add	104.51	
		For >10 To 20, Deduct	-175.43	
		For >20 To 40, Deduct	-316.01	
		For >40, Deduct	-666.86	
26 56 13 00-0289	EA	50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	5,179.62	832.56
		For Galvanized Finish, Add	105.44	
		For >10 To 20, Deduct	-182.21	
		For >20 To 40, Deduct	-329.27	
		For >40, Deduct	-693.69	
26 56 13 00-0290		Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0291	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	39.00	
26 56 13 00-0292	EA	Festoon Outlet Provision For Steel Area Light Poles.....	54.00	
		Note: Excludes electrical outlet.		
26 56 13 00-0293	EA	Extra Handhole For Steel Area Light Poles	58.00	
26 56 13 00-0294	EA	Vibration Dampener For Steel Area Light Poles	59.00	
26 56 13 00-0295		Aluminum Area Light Poles (26 56 13 00-0177)		
		Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0296		Round Straight, Aluminum Area Light Poles (26 56 13 00-0295)		
26 56 13 00-0297		Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0296)		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0298	EA	8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	762.03	166.51
		For Bronze Or Satin Anodized Finish, Add	42.90	
		For Black Anodized Finish, Add	85.80	
		For >10 To 20, Deduct	-25.49	
		For >20 To 40, Deduct	-46.68	
		For >40, Deduct	-97.65	
26 56 13 00-0299	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	839.53	194.27
		For Bronze Or Satin Anodized Finish, Add	45.10	
		For Black Anodized Finish, Add	90.20	
		For >10 To 20, Deduct	-27.75	
		For >20 To 40, Deduct	-51.00	
		For >40, Deduct	-106.50	
26 56 13 00-0300	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	922.53	222.01
		For Bronze Or Satin Anodized Finish, Add	47.85	
		For Black Anodized Finish, Add	95.70	
		For >10 To 20, Deduct	-30.24	
		For >20 To 40, Deduct	-55.70	
		For >40, Deduct	-116.18	
26 56 13 00-0301	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,006.63	249.77
		For Bronze Or Satin Anodized Finish, Add	50.71	
		For Black Anodized Finish, Add	101.42	
		For >10 To 20, Deduct	-32.77	
		For >20 To 40, Deduct	-60.47	
		For >40, Deduct	-126.02	
26 56 13 00-0302	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,053.08	263.65
		For Bronze Or Satin Anodized Finish, Add	52.58	
		For Black Anodized Finish, Add	105.16	
		For >10 To 20, Deduct	-34.21	
		For >20 To 40, Deduct	-63.17	
		For >40, Deduct	-131.60	
26 56 13 00-0303	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	1,098.44	277.52
		For Bronze Or Satin Anodized Finish, Add	54.34	
		For Black Anodized Finish, Add	108.68	
		For >10 To 20, Deduct	-35.61	
		For >20 To 40, Deduct	-65.79	
		For >40, Deduct	-137.01	
26 56 13 00-0304	EA	16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,164.44	277.52
		For Bronze Or Satin Anodized Finish, Add	60.94	
		For Black Anodized Finish, Add	121.88	
		For >10 To 20, Deduct	-38.25	
		For >20 To 40, Deduct	-70.41	
		For >40, Deduct	-146.91	
26 56 13 00-0305	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,261.75	305.27
		For Bronze Or Satin Anodized Finish, Add	65.12	
		For Black Anodized Finish, Add	130.24	
		For >10 To 20, Deduct	-41.31	
		For >20 To 40, Deduct	-76.11	
		For >40, Deduct	-158.74	
26 56 13 00-0306	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,352.44	333.03
		For Bronze Or Satin Anodized Finish, Add	68.64	
		For Black Anodized Finish, Add	137.28	
		For >10 To 20, Deduct	-44.11	
		For >20 To 40, Deduct	-81.35	
		For >40, Deduct	-169.56	
26 56 13 00-0307	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,296.18	263.65
		For Bronze Or Satin Anodized Finish, Add	76.89	
		For Black Anodized Finish, Add	153.78	
		For >10 To 20, Deduct	-43.94	
		For >20 To 40, Deduct	-80.19	
		For >40, Deduct	-168.06	
26 56 13 00-0308	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,595.54	333.03
		For Bronze Or Satin Anodized Finish, Add	92.95	
		For Black Anodized Finish, Add	185.90	
		For >10 To 20, Deduct	-53.83	
		For >20 To 40, Deduct	-98.37	
		For >40, Deduct	-206.03	
26 56 13 00-0309	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	1,718.74	333.03
		For Bronze Or Satin Anodized Finish, Add	105.27	
		For Black Anodized Finish, Add	210.54	
		For >10 To 20, Deduct	-58.76	
		For >20 To 40, Deduct	-106.99	
		For >40, Deduct	-224.51	
26 56 13 00-0310	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,056.26	444.03
		For Bronze Or Satin Anodized Finish, Add	116.82	
		For Black Anodized Finish, Add	233.64	
		For >10 To 20, Deduct	-68.93	
		For >20 To 40, Deduct	-126.18	
		For >40, Deduct	-264.04	
26 56 13 00-0311	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	2,386.17	499.53
		For Bronze Or Satin Anodized Finish, Add	138.71	
		For Black Anodized Finish, Add	277.42	
		For >10 To 20, Deduct	-80.46	
		For >20 To 40, Deduct	-147.05	
		For >40, Deduct	-307.97	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0312	EA	20'	High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,428.34 76.23 152.46 -47.14 -86.66 -180.95	333.03
26 56 13 00-0313	EA	20'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,708.84 104.28 208.56 -58.36 -106.30 -223.02	333.03
26 56 13 00-0314	EA	25'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,038.66 115.06 230.12 -68.23 -124.95 -261.40	444.03
26 56 13 00-0315	EA	25'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,198.16 131.01 262.02 -74.61 -136.11 -285.32	444.03
26 56 13 00-0316	EA	30'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,566.57 156.75 313.50 -87.68 -159.68 -335.03	499.53
26 56 13 00-0317 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0296)					
26 56 13 00-0318	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	874.23 81.18 -29.97 -54.54 -114.48	166.51
26 56 13 00-0319	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	973.73 87.78 -33.12 -60.39 -126.63	194.27
26 56 13 00-0320	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,068.83 93.72 -36.09 -65.94 -138.12	222.01
26 56 13 00-0321	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,143.03 96.53 -38.23 -70.02 -146.48	249.77
26 56 13 00-0322	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,230.44 101.31 -40.89 -75.03 -156.81	277.52
26 56 13 00-0323	EA	10'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	996.83 91.25 -34.05 -62.01 -130.10	194.27
26 56 13 00-0324	EA	12'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,089.73 96.86 -36.93 -67.40 -141.26	222.01
26 56 13 00-0325	EA	14'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,185.93 102.96 -39.94 -73.02 -152.91	249.77
26 56 13 00-0326	EA	16'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,281.04 108.90 -42.92 -78.57 -164.40	277.52
26 56 13 00-0327	EA	18'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,381.65 115.67 -46.11 -84.50 -176.72	305.27

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0328 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,475.64		333.03
For Bronze, Satin Or Black Anodized Finish, Add	121.44	
For >10 To 20, Deduct	-49.04	
For >20 To 40, Deduct	-89.97	
For >40, Deduct	-188.04	
26 56 13 00-0329 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,132.63		222.01
For Bronze, Satin Or Black Anodized Finish, Add	103.29	
For >10 To 20, Deduct	-38.64	
For >20 To 40, Deduct	-70.40	
For >40, Deduct	-147.69	
26 56 13 00-0330 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,236.53		249.77
For Bronze, Satin Or Black Anodized Finish, Add	110.55	
For >10 To 20, Deduct	-41.97	
For >20 To 40, Deduct	-76.57	
For >40, Deduct	-160.50	
26 56 13 00-0331 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,339.34		277.52
For Bronze, Satin Or Black Anodized Finish, Add	117.65	
For >10 To 20, Deduct	-45.25	
For >20 To 40, Deduct	-82.65	
For >40, Deduct	-173.15	
26 56 13 00-0332 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,444.35		305.27
For Bronze, Satin Or Black Anodized Finish, Add	125.07	
For >10 To 20, Deduct	-48.62	
For >20 To 40, Deduct	-88.89	
For >40, Deduct	-186.13	
26 56 13 00-0333 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,400.94		277.52
For Bronze, Satin Or Black Anodized Finish, Add	126.89	
For >10 To 20, Deduct	-47.71	
For >20 To 40, Deduct	-86.97	
For >40, Deduct	-182.39	
26 56 13 00-0334 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,619.74		333.03
For Bronze, Satin Or Black Anodized Finish, Add	143.06	
For >10 To 20, Deduct	-54.80	
For >20 To 40, Deduct	-100.06	
For >40, Deduct	-209.66	
26 56 13 00-0335 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,173.33		222.01
For Bronze, Satin Or Black Anodized Finish, Add	109.40	
For >10 To 20, Deduct	-40.27	
For >20 To 40, Deduct	-73.25	
For >40, Deduct	-153.80	
26 56 13 00-0336 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,289.33		249.77
For Bronze, Satin Or Black Anodized Finish, Add	118.47	
For >10 To 20, Deduct	-44.08	
For >20 To 40, Deduct	-80.26	
For >40, Deduct	-168.42	
26 56 13 00-0337 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,394.34		277.52
For Bronze, Satin Or Black Anodized Finish, Add	125.90	
For >10 To 20, Deduct	-47.45	
For >20 To 40, Deduct	-86.50	
For >40, Deduct	-181.40	
26 56 13 00-0338 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,505.95		305.27
For Bronze, Satin Or Black Anodized Finish, Add	134.31	
For >10 To 20, Deduct	-51.08	
For >20 To 40, Deduct	-93.21	
For >40, Deduct	-195.37	
26 56 13 00-0339 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,614.24		333.03
For Bronze, Satin Or Black Anodized Finish, Add	142.23	
For >10 To 20, Deduct	-54.58	
For >20 To 40, Deduct	-99.68	
For >40, Deduct	-208.83	
26 56 13 00-0340 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,474.64		277.52
For Bronze, Satin Or Black Anodized Finish, Add	137.94	
For >10 To 20, Deduct	-50.66	
For >20 To 40, Deduct	-92.12	
For >40, Deduct	-193.44	
26 56 13 00-0341 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,596.15		305.27
For Bronze, Satin Or Black Anodized Finish, Add	147.84	
For >10 To 20, Deduct	-54.69	
For >20 To 40, Deduct	-99.52	
For >40, Deduct	-208.90	
26 56 13 00-0342 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....1,648.34		333.03
For Bronze, Satin Or Black Anodized Finish, Add	147.35	
For >10 To 20, Deduct	-55.94	
For >20 To 40, Deduct	-102.06	
For >40, Deduct	-213.95	
26 56 13 00-0343 Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0296)		
Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0344 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial .....682.32		138.76
For Bronze Or Satin Anodized Finish, Add	40.48	
For Black Anodized Finish, Add	80.96	
For >10 To 20, Deduct	-23.13	
For >20 To 40, Deduct	-42.21	
For >40, Deduct	-88.47	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0345	EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	730.97		152.63
	For Bronze Or Satin Anodized Finish, Add	42.57		
	For Black Anodized Finish, Add	85.14		
	For >10 To 20, Deduct	-24.66		
	For >20 To 40, Deduct	-45.06		
	For >40, Deduct	-94.38		
26 56 13 00-0346	EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	808.23		166.51
	For Bronze Or Satin Anodized Finish, Add	47.52		
	For Black Anodized Finish, Add	95.04		
	For >10 To 20, Deduct	-27.33		
	For >20 To 40, Deduct	-49.92		
	For >40, Deduct	-104.58		
26 56 13 00-0347	EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	833.53		166.51
	For Bronze Or Satin Anodized Finish, Add	50.05		
	For Black Anodized Finish, Add	100.10		
	For >10 To 20, Deduct	-28.35		
	For >20 To 40, Deduct	-51.69		
	For >40, Deduct	-108.38		
26 56 13 00-0348	EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial	865.43		166.51
	For Bronze Or Satin Anodized Finish, Add	53.24		
	For Black Anodized Finish, Add	106.48		
	For >10 To 20, Deduct	-29.62		
	For >20 To 40, Deduct	-53.92		
	For >40, Deduct	-113.16		
26 56 13 00-0349	EA 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	989.97		180.39
	For Bronze Or Satin Anodized Finish, Add	62.92		
	For Black Anodized Finish, Add	125.84		
	For >10 To 20, Deduct	-34.19		
	For >20 To 40, Deduct	-62.08		
	For >40, Deduct	-130.46		
26 56 13 00-0350	EA 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,058.43		194.27
	For Bronze Or Satin Anodized Finish, Add	66.99		
	For Black Anodized Finish, Add	133.98		
	For >10 To 20, Deduct	-36.51		
	For >20 To 40, Deduct	-66.32		
	For >40, Deduct	-139.34		
26 56 13 00-0351	EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,228.93		194.27
	For Bronze Or Satin Anodized Finish, Add	84.04		
	For Black Anodized Finish, Add	168.08		
	For >10 To 20, Deduct	-43.33		
	For >20 To 40, Deduct	-78.25		
	For >40, Deduct	-164.91		
26 56 13 00-0352	EA 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,503.33		222.01
	For Bronze Or Satin Anodized Finish, Add	105.93		
	For Black Anodized Finish, Add	211.86		
	For >10 To 20, Deduct	-53.47		
	For >20 To 40, Deduct	-96.35		
	For >40, Deduct	-203.30		
26 56 13 00-0353	EA 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,706.23		249.77
	For Bronze Or Satin Anodized Finish, Add	120.67		
	For Black Anodized Finish, Add	241.34		
	For >10 To 20, Deduct	-60.76		
	For >20 To 40, Deduct	-109.45		
	For >40, Deduct	-230.96		
26 56 13 00-0354	EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,907.53		249.77
	For Bronze Or Satin Anodized Finish, Add	140.80		
	For Black Anodized Finish, Add	281.60		
	For >10 To 20, Deduct	-68.81		
	For >20 To 40, Deduct	-123.54		
	For >40, Deduct	-261.15		
26 56 13 00-0355	Round Tapered, Aluminum Area Light Poles (26 56 13 00-0295)			
26 56 13 00-0356	Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0355)			
26 56 13 00-0357	EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	644.33		166.51
	For Bronze Or Satin Anodized Finish, Add	31.13		
	For Black Anodized Finish, Add	62.26		
	For >10 To 20, Deduct	-20.78		
	For >20 To 40, Deduct	-38.44		
	For >40, Deduct	-80.00		
26 56 13 00-0358	EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	725.13		194.27
	For Bronze Or Satin Anodized Finish, Add	33.66		
	For Black Anodized Finish, Add	67.32		
	For >10 To 20, Deduct	-23.18		
	For >20 To 40, Deduct	-42.99		
	For >40, Deduct	-89.34		
26 56 13 00-0359	EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	805.93		222.01
	For Bronze Or Satin Anodized Finish, Add	36.19		
	For Black Anodized Finish, Add	72.38		
	For >10 To 20, Deduct	-25.58		
	For >20 To 40, Deduct	-47.53		
	For >40, Deduct	-98.69		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0360	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	896.63	249.77
			For Bronze Or Satin Anodized Finish, Add	39.71	
			For Black Anodized Finish, Add	79.42	
			For >10 To 20, Deduct	-28.37	
			For >20 To 40, Deduct	-52.77	
			For >40, Deduct	-109.52	
26 56 13 00-0361	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	986.24	277.52
			For Bronze Or Satin Anodized Finish, Add	43.12	
			For Black Anodized Finish, Add	86.24	
			For >10 To 20, Deduct	-31.12	
			For >20 To 40, Deduct	-57.94	
			For >40, Deduct	-120.18	
26 56 13 00-0362	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	753.73	194.27
			For Bronze Or Satin Anodized Finish, Add	36.52	
			For Black Anodized Finish, Add	73.04	
			For >10 To 20, Deduct	-24.32	
			For >20 To 40, Deduct	-44.99	
			For >40, Deduct	-93.63	
26 56 13 00-0363	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	851.03	222.01
			For Bronze Or Satin Anodized Finish, Add	40.70	
			For Black Anodized Finish, Add	81.40	
			For >10 To 20, Deduct	-27.38	
			For >20 To 40, Deduct	-50.69	
			For >40, Deduct	-105.45	
26 56 13 00-0364	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	945.03	249.77
			For Bronze Or Satin Anodized Finish, Add	44.55	
			For Black Anodized Finish, Add	89.10	
			For >10 To 20, Deduct	-30.31	
			For >20 To 40, Deduct	-56.16	
			For >40, Deduct	-116.78	
26 56 13 00-0365	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,125.35	305.27
			For Bronze Or Satin Anodized Finish, Add	51.48	
			For Black Anodized Finish, Add	102.96	
			For >10 To 20, Deduct	-35.86	
			For >20 To 40, Deduct	-66.56	
			For >40, Deduct	-138.28	
26 56 13 00-0366	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,208.34	333.03
			For Bronze Or Satin Anodized Finish, Add	54.23	
			For Black Anodized Finish, Add	108.46	
			For >10 To 20, Deduct	-38.34	
			For >20 To 40, Deduct	-71.26	
			For >40, Deduct	-147.95	
26 56 13 00-0367	EA		12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	891.73	222.01
			For Bronze Or Satin Anodized Finish, Add	44.77	
			For Black Anodized Finish, Add	89.54	
			For >10 To 20, Deduct	-29.01	
			For >20 To 40, Deduct	-53.54	
			For >40, Deduct	-111.56	
26 56 13 00-0368	EA		14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	992.33	249.77
			For Bronze Or Satin Anodized Finish, Add	49.28	
			For Black Anodized Finish, Add	98.56	
			For >10 To 20, Deduct	-32.20	
			For >20 To 40, Deduct	-59.47	
			For >40, Deduct	-123.87	
26 56 13 00-0369	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,100.64	277.52
			For Bronze Or Satin Anodized Finish, Add	54.56	
			For Black Anodized Finish, Add	109.12	
			For >10 To 20, Deduct	-35.70	
			For >20 To 40, Deduct	-65.94	
			For >40, Deduct	-137.34	
26 56 13 00-0370	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,189.15	305.27
			For Bronze Or Satin Anodized Finish, Add	57.86	
			For Black Anodized Finish, Add	115.72	
			For >10 To 20, Deduct	-38.41	
			For >20 To 40, Deduct	-71.03	
			For >40, Deduct	-147.85	
26 56 13 00-0371	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,293.04	333.03
			For Bronze Or Satin Anodized Finish, Add	62.70	
			For Black Anodized Finish, Add	125.40	
			For >10 To 20, Deduct	-41.73	
			For >20 To 40, Deduct	-77.19	
			For >40, Deduct	-160.65	
26 56 13 00-0372	EA		16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,208.44	277.52
			For Bronze Or Satin Anodized Finish, Add	65.34	
			For Black Anodized Finish, Add	130.68	
			For >10 To 20, Deduct	-40.01	
			For >20 To 40, Deduct	-73.49	
			For >40, Deduct	-153.51	
26 56 13 00-0373	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,326.65	305.27
			For Bronze Or Satin Anodized Finish, Add	71.61	
			For Black Anodized Finish, Add	143.22	
			For >10 To 20, Deduct	-43.91	
			For >20 To 40, Deduct	-80.65	
			For >40, Deduct	-168.47	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0374	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,399.74 73.37 146.74 -46.00 -84.66 -176.66	333.03
26 56 13 00-0375	EA	23'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,608.65 83.16 166.32 -52.69 -97.06 -202.45	388.53
26 56 13 00-0376	EA	25'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,824.16 93.61 187.22 -59.65 -109.93 -229.22	444.03
26 56 13 00-0377	EA	18'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,434.45 82.39 164.78 -48.22 -88.20 -184.64	305.27
26 56 13 00-0378	EA	20'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,530.64 86.46 172.92 -51.24 -93.82 -196.29	333.03
26 56 13 00-0379	EA	23'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,712.05 93.50 187.00 -56.83 -104.30 -217.96	388.53
26 56 13 00-0380	EA	25'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,903.36 101.53 203.06 -62.81 -115.47 -241.10	444.03
26 56 13 00-0381	EA	28'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,047.96 110.44 220.88 -67.77 -124.49 -260.02	471.79
26 56 13 00-0382	EA	30'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,194.77 119.57 239.14 -72.80 -133.65 -279.26	499.53
26 56 13 00-0383	EA	23'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,814.35 103.73 207.46 -60.92 -111.46 -233.30	388.53
26 56 13 00-0384	EA	25'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,971.56 108.35 216.70 -65.54 -120.25 -251.33	444.03
26 56 13 00-0385	EA	28'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,121.66 117.81 235.62 -70.71 -129.65 -271.07	471.79
26 56 13 00-0386	EA	30'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,309.17 131.01 262.02 -77.38 -141.66 -296.42	499.53
26 56 13 00-0387	EA	33'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,386.42 135.96 271.92 -80.05 -146.51 -306.62	513.41

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0388	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,547.27	527.28
		For Bronze Or Satin Anodized Finish, Add	149.27	
		For Black Anodized Finish, Add	298.54	
		For >10 To 20, Deduct	-86.07	
		For >20 To 40, Deduct	-157.22	
		For >40, Deduct	-329.36	
26 56 13 00-0389	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	936.83	222.01
		For Bronze Or Satin Anodized Finish, Add	49.28	
		For Black Anodized Finish, Add	98.56	
		For >10 To 20, Deduct	-30.81	
		For >20 To 40, Deduct	-56.70	
		For >40, Deduct	-118.32	
26 56 13 00-0390	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,045.13	249.77
		For Bronze Or Satin Anodized Finish, Add	54.56	
		For Black Anodized Finish, Add	109.12	
		For >10 To 20, Deduct	-34.31	
		For >20 To 40, Deduct	-63.17	
		For >40, Deduct	-131.79	
26 56 13 00-0391	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,157.84	277.52
		For Bronze Or Satin Anodized Finish, Add	60.28	
		For Black Anodized Finish, Add	120.56	
		For >10 To 20, Deduct	-37.99	
		For >20 To 40, Deduct	-69.95	
		For >40, Deduct	-145.92	
26 56 13 00-0392	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,258.45	305.27
		For Bronze Or Satin Anodized Finish, Add	64.79	
		For Black Anodized Finish, Add	129.58	
		For >10 To 20, Deduct	-41.18	
		For >20 To 40, Deduct	-75.88	
		For >40, Deduct	-158.24	
26 56 13 00-0393	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,357.94	333.03
		For Bronze Or Satin Anodized Finish, Add	69.19	
		For Black Anodized Finish, Add	138.38	
		For >10 To 20, Deduct	-44.33	
		For >20 To 40, Deduct	-81.74	
		For >40, Deduct	-170.39	
26 56 13 00-0394	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,277.74	277.52
		For Bronze Or Satin Anodized Finish, Add	72.27	
		For Black Anodized Finish, Add	144.54	
		For >10 To 20, Deduct	-42.78	
		For >20 To 40, Deduct	-78.34	
		For >40, Deduct	-163.91	
26 56 13 00-0395	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,399.25	305.27
		For Bronze Or Satin Anodized Finish, Add	78.87	
		For Black Anodized Finish, Add	157.74	
		For >10 To 20, Deduct	-46.81	
		For >20 To 40, Deduct	-85.74	
		For >40, Deduct	-179.36	
26 56 13 00-0396	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,486.64	333.03
		For Bronze Or Satin Anodized Finish, Add	82.06	
		For Black Anodized Finish, Add	164.12	
		For >10 To 20, Deduct	-49.48	
		For >20 To 40, Deduct	-90.74	
		For >40, Deduct	-189.69	
26 56 13 00-0397	EA	23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,690.05	388.53
		For Bronze Or Satin Anodized Finish, Add	91.30	
		For Black Anodized Finish, Add	182.60	
		For >10 To 20, Deduct	-55.95	
		For >20 To 40, Deduct	-102.76	
		For >40, Deduct	-214.66	
26 56 13 00-0398	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,900.06	444.03
		For Bronze Or Satin Anodized Finish, Add	101.20	
		For Black Anodized Finish, Add	202.40	
		For >10 To 20, Deduct	-62.68	
		For >20 To 40, Deduct	-115.24	
		For >40, Deduct	-240.61	
26 56 13 00-0399	EA	23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,938.65	388.53
		For Bronze Or Satin Anodized Finish, Add	116.16	
		For Black Anodized Finish, Add	232.32	
		For >10 To 20, Deduct	-65.89	
		For >20 To 40, Deduct	-120.16	
		For >40, Deduct	-251.95	
26 56 13 00-0400	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,136.56	444.03
		For Bronze Or Satin Anodized Finish, Add	124.85	
		For Black Anodized Finish, Add	249.70	
		For >10 To 20, Deduct	-72.14	
		For >20 To 40, Deduct	-131.80	
		For >40, Deduct	-276.08	
26 56 13 00-0401	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,299.86	471.79
		For Bronze Or Satin Anodized Finish, Add	135.63	
		For Black Anodized Finish, Add	271.26	
		For >10 To 20, Deduct	-77.84	
		For >20 To 40, Deduct	-142.12	
		For >40, Deduct	-297.80	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0402	EA	30'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,444.47 144.54 289.08 -82.79 -151.13 -316.72	499.53
26 56 13 00-0403	EA	33'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,578.92 155.21 310.42 -87.75 -159.99 -335.50	513.41
26 56 13 00-0404	EA	35'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,695.77 164.12 328.24 -92.01 -167.61 -351.64	527.28
26 56 13 00-0405	EA	37'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,795.02 171.27 342.54 -95.57 -174.01 -365.14	541.17
26 56 13 00-0406	EA	39'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,976.78 186.67 373.34 -102.42 -186.17 -391.01	555.04
26 56 13 00-0407	EA	28'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,775.06 183.15 366.30 -96.85 -175.38 -369.08	471.79
26 56 13 00-0408	EA	30'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,994.47 199.54 399.08 -104.79 -189.63 -399.22	499.53
26 56 13 00-0409	EA	33'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,150.92 212.41 424.82 -110.63 -200.03 -421.30	513.41
26 56 13 00-0410	EA	35'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,268.87 221.43 442.86 -114.94 -207.73 -437.60	527.28
26 56 13 00-0411	EA	37'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,332.92 225.06 450.12 -117.08 -211.66 -445.82	541.17
26 56 13 00-0412	EA	39'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,533.38 242.33 484.66 -124.68 -225.14 -474.50	555.04
26 56 13 00-0413	EA	28'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,624.36 168.08 336.16 -90.82 -164.83 -346.48	471.79
26 56 13 00-0414	EA	30'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,823.97 182.49 364.98 -97.97 -177.70 -373.64	499.53
26 56 13 00-0415	EA	33'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,901.22 187.44 374.88 -100.65 -182.55 -383.84	513.41

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0416	EA	35'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,104.97	527.28
			For Bronze Or Satin Anodized Finish, Add	205.04	
			For Black Anodized Finish, Add	410.08	
			For >10 To 20, Deduct	-108.38	
			For >20 To 40, Deduct	-196.26	
			For >40, Deduct	-413.02	
26 56 13 00-0417	EA	37'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,203.12	541.17
			For Bronze Or Satin Anodized Finish, Add	212.08	
			For Black Anodized Finish, Add	424.16	
			For >10 To 20, Deduct	-111.89	
			For >20 To 40, Deduct	-202.57	
			For >40, Deduct	-426.35	
26 56 13 00-0418	EA	39'	High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,404.68	555.04
			For Bronze Or Satin Anodized Finish, Add	229.46	
			For Black Anodized Finish, Add	458.92	
			For >10 To 20, Deduct	-119.54	
			For >20 To 40, Deduct	-216.13	
			For >40, Deduct	-455.20	
26 56 13 00-0419	EA	28'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,312.96	471.79
			For Bronze Or Satin Anodized Finish, Add	236.94	
			For Black Anodized Finish, Add	473.88	
			For >10 To 20, Deduct	-118.37	
			For >20 To 40, Deduct	-213.04	
			For >40, Deduct	-449.77	
26 56 13 00-0420	EA	30'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,502.67	499.53
			For Bronze Or Satin Anodized Finish, Add	250.36	
			For Black Anodized Finish, Add	500.72	
			For >10 To 20, Deduct	-125.12	
			For >20 To 40, Deduct	-225.21	
			For >40, Deduct	-475.45	
26 56 13 00-0421	EA	33'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,661.32	513.41
			For Bronze Or Satin Anodized Finish, Add	263.45	
			For Black Anodized Finish, Add	526.90	
			For >10 To 20, Deduct	-131.05	
			For >20 To 40, Deduct	-235.76	
			For >40, Deduct	-497.86	
26 56 13 00-0422	EA	35'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,909.07	527.28
			For Bronze Or Satin Anodized Finish, Add	285.45	
			For Black Anodized Finish, Add	570.90	
			For >10 To 20, Deduct	-140.54	
			For >20 To 40, Deduct	-252.54	
			For >40, Deduct	-533.63	
26 56 13 00-0423	EA	37'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,961.02	541.17
			For Bronze Or Satin Anodized Finish, Add	287.87	
			For Black Anodized Finish, Add	575.74	
			For >10 To 20, Deduct	-142.21	
			For >20 To 40, Deduct	-255.63	
			For >40, Deduct	-540.04	
26 56 13 00-0424	EA	39'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,207.68	555.04
			For Bronze Or Satin Anodized Finish, Add	309.76	
			For Black Anodized Finish, Add	619.52	
			For >10 To 20, Deduct	-151.66	
			For >20 To 40, Deduct	-272.34	
			For >40, Deduct	-575.65	
26 56 13 00-0425	EA	48'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,272.02	832.56
			For Bronze Or Satin Anodized Finish, Add	360.69	
			For Black Anodized Finish, Add	721.38	
			For >10 To 20, Deduct	-185.90	
			For >20 To 40, Deduct	-335.74	
			For >40, Deduct	-707.55	
26 56 13 00-0426	EA	50'	High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,408.42	832.56
			For Bronze Or Satin Anodized Finish, Add	374.33	
			For Black Anodized Finish, Add	748.66	
			For >10 To 20, Deduct	-191.36	
			For >20 To 40, Deduct	-345.29	
			For >40, Deduct	-728.01	
26 56 13 00-0427			Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0355)		
26 56 13 00-0428	EA	8'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	880.83	166.51
			For Bronze, Satin Or Black Anodized Finish, Add	82.17	
			For >10 To 20, Deduct	-30.24	
			For >20 To 40, Deduct	-55.00	
			For >40, Deduct	-115.47	
26 56 13 00-0429	EA	10'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	959.43	194.27
			For Bronze, Satin Or Black Anodized Finish, Add	85.64	
			For >10 To 20, Deduct	-32.55	
			For >20 To 40, Deduct	-59.39	
			For >40, Deduct	-124.49	
26 56 13 00-0430	EA	12'	High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,039.13	222.01
			For Bronze, Satin Or Black Anodized Finish, Add	89.27	
			For >10 To 20, Deduct	-34.90	
			For >20 To 40, Deduct	-63.86	
			For >40, Deduct	-133.67	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0431 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,121.03 93.23 -37.35 -68.48 -143.18	249.77
26 56 13 00-0432 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,201.84 97.02 -39.75 -73.03 -152.52	277.52
26 56 13 00-0433 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	972.63 87.62 -33.08 -60.31 -126.47	194.27
26 56 13 00-0434 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,054.53 91.58 -35.52 -64.94 -135.98	222.01
26 56 13 00-0435 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,138.63 95.87 -38.05 -69.71 -145.82	249.77
26 56 13 00-0436 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,221.64 99.99 -40.54 -74.41 -155.49	277.52
26 56 13 00-0437 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,318.95 106.26 -43.60 -80.12 -167.32	305.27
26 56 13 00-0438 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,406.34 111.05 -46.26 -85.12 -177.65	333.03
26 56 13 00-0439 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,097.43 98.01 -37.24 -67.94 -142.41	222.01
26 56 13 00-0440 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,187.03 103.13 -39.99 -73.10 -153.08	249.77
26 56 13 00-0441 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,289.84 110.22 -43.27 -79.19 -165.72	277.52
26 56 13 00-0442 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,381.65 115.67 -46.11 -84.50 -176.72	305.27
26 56 13 00-0443 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,487.74 123.26 -49.52 -90.82 -189.86	333.03
26 56 13 00-0444 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,352.54 119.63 -45.78 -83.58 -175.13	277.52
26 56 13 00-0445 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,466.35 128.37 -49.50 -90.43 -189.43	305.27
26 56 13 00-0446 EA 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,555.94 133.49 -52.25 -95.60 -200.09	333.03
26 56 13 00-0447 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,131.53 103.13 -38.60 -70.33 -147.53	222.01

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0448	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,238.73 110.88 -42.06 -76.72 -160.83	249.77
26 56 13 00-0449	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,352.54 119.63 -45.78 -83.58 -175.13	277.52
26 56 13 00-0450	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,453.15 126.39 -48.97 -89.51 -187.45	305.27
26 56 13 00-0451	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,561.44 134.31 -52.47 -95.98 -200.91	333.03
26 56 13 00-0452	EA	16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,424.04 130.35 -48.64 -88.58 -185.85	277.52
26 56 13 00-0453	EA	18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,546.65 140.42 -52.71 -96.05 -201.47	305.27
26 56 13 00-0454	EA	20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,641.74 146.36 -55.68 -101.60 -212.96	333.03
26 56 13 00-0455 Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0355)				
Note: Includes rubberized undercoating on embedded portion.				
26 56 13 00-0456	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	603.12 32.56 65.12 -19.96 -36.67 -76.59	138.76
26 56 13 00-0457	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	633.92 35.64 71.28 -21.19 -38.82 -81.21	138.76
26 56 13 00-0458	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	686.97 38.17 76.34 -22.90 -41.98 -87.78	152.63
26 56 13 00-0459	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	732.33 39.93 79.86 -24.30 -44.60 -93.20	166.51
26 56 13 00-0460	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	771.93 43.89 87.78 -25.88 -47.37 -99.14	166.51
26 56 13 00-0461	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	716.67 41.14 82.28 -24.09 -44.06 -92.24	152.63
26 56 13 00-0462	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	775.23 44.22 88.44 -26.01 -47.61 -99.63	166.51



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0463	EA	16'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	797.23 46.42 92.84 -26.89 -49.15 -102.93	166.51
26 56 13 00-0464	EA	18'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	860.17 49.94 99.88 -29.00 -53.00 -110.99	180.39
26 56 13 00-0465	EA	20'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	918.73 53.02 106.04 -30.92 -56.54 -118.38	194.27
26 56 13 00-0466	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	861.03 52.80 105.60 -29.45 -53.61 -112.50	166.51
26 56 13 00-0467	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	930.57 56.98 113.96 -31.81 -57.92 -121.55	180.39
26 56 13 00-0468	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	994.63 60.61 121.22 -33.96 -61.85 -129.77	194.27
26 56 13 00-0469	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,020.77 66.00 132.00 -35.42 -64.24 -135.08	180.39
26 56 13 00-0470	EA	25'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,309.73 86.57 173.14 -45.73 -82.80 -174.26	222.01
26 56 13 00-0471	EA	25'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,434.03 99.00 198.00 -50.70 -91.50 -192.90	222.01
26 56 13 00-0472	EA	30'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,596.23 109.67 219.34 -56.36 -101.75 -214.46	249.77
26 56 13 00-0473	EA	30'	High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,731.53 123.20 246.40 -61.77 -111.22 -234.75	249.77
26 56 13 00-0474	Square Straight, Aluminum Area Light Poles (26 56 13 00-0295)				
26 56 13 00-0475	Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0474)				
26 56 13 00-0476	EA	8'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	787.33 45.43 90.86 -26.50 -48.45 -101.45	166.51
26 56 13 00-0477	EA	10'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	865.93 47.74 95.48 -28.81 -52.84 -110.46	194.27

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0478	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	953.33	222.01
		For Bronze Or Satin Anodized Finish, Add	50.93	
		For Black Anodized Finish, Add	101.86	
		For >10 To 20, Deduct	-31.47	
		For >20 To 40, Deduct	-57.85	
		For >40, Deduct	-120.80	
26 56 13 00-0479	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,039.63	249.77
		For Bronze Or Satin Anodized Finish, Add	54.01	
		For Black Anodized Finish, Add	108.02	
		For >10 To 20, Deduct	-34.09	
		For >20 To 40, Deduct	-62.78	
		For >40, Deduct	-130.97	
26 56 13 00-0480	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,087.18	263.65
		For Bronze Or Satin Anodized Finish, Add	55.99	
		For Black Anodized Finish, Add	111.98	
		For >10 To 20, Deduct	-35.58	
		For >20 To 40, Deduct	-65.56	
		For >40, Deduct	-136.71	
26 56 13 00-0481	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,134.74	277.52
		For Bronze Or Satin Anodized Finish, Add	57.97	
		For Black Anodized Finish, Add	115.94	
		For >10 To 20, Deduct	-37.06	
		For >20 To 40, Deduct	-68.33	
		For >40, Deduct	-142.46	
26 56 13 00-0482	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,227.65	305.27
		For Bronze Or Satin Anodized Finish, Add	61.71	
		For Black Anodized Finish, Add	123.42	
		For >10 To 20, Deduct	-39.95	
		For >20 To 40, Deduct	-73.72	
		For >40, Deduct	-153.62	
26 56 13 00-0483	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,330.44	333.03
		For Bronze Or Satin Anodized Finish, Add	66.44	
		For Black Anodized Finish, Add	132.88	
		For >10 To 20, Deduct	-43.23	
		For >20 To 40, Deduct	-79.81	
		For >40, Deduct	-166.26	
26 56 13 00-0484	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,210.64	277.52
		For Bronze Or Satin Anodized Finish, Add	65.56	
		For Black Anodized Finish, Add	131.12	
		For >10 To 20, Deduct	-40.10	
		For >20 To 40, Deduct	-73.64	
		For >40, Deduct	-153.84	
26 56 13 00-0485	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,305.75	305.27
		For Bronze Or Satin Anodized Finish, Add	69.52	
		For Black Anodized Finish, Add	139.04	
		For >10 To 20, Deduct	-43.07	
		For >20 To 40, Deduct	-79.19	
		For >40, Deduct	-165.34	
26 56 13 00-0486	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,415.14	333.03
		For Bronze Or Satin Anodized Finish, Add	74.91	
		For Black Anodized Finish, Add	149.82	
		For >10 To 20, Deduct	-46.62	
		For >20 To 40, Deduct	-85.74	
		For >40, Deduct	-178.97	
26 56 13 00-0487	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,417.18	263.65
		For Bronze Or Satin Anodized Finish, Add	88.99	
		For Black Anodized Finish, Add	177.98	
		For >10 To 20, Deduct	-48.78	
		For >20 To 40, Deduct	-88.66	
		For >40, Deduct	-186.21	
26 56 13 00-0488	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,730.84	333.03
		For Bronze Or Satin Anodized Finish, Add	106.48	
		For Black Anodized Finish, Add	212.96	
		For >10 To 20, Deduct	-59.24	
		For >20 To 40, Deduct	-107.84	
		For >40, Deduct	-226.32	
26 56 13 00-0489	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	2,090.36	444.03
		For Bronze Or Satin Anodized Finish, Add	120.23	
		For Black Anodized Finish, Add	240.46	
		For >10 To 20, Deduct	-70.29	
		For >20 To 40, Deduct	-128.56	
		For >40, Deduct	-269.15	
26 56 13 00-0490	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,483.34	333.03
		For Bronze Or Satin Anodized Finish, Add	81.73	
		For Black Anodized Finish, Add	163.46	
		For >10 To 20, Deduct	-49.34	
		For >20 To 40, Deduct	-90.51	
		For >40, Deduct	-189.20	
26 56 13 00-0491	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,863.94	333.03
		For Bronze Or Satin Anodized Finish, Add	119.79	
		For Black Anodized Finish, Add	239.58	
		For >10 To 20, Deduct	-64.57	
		For >20 To 40, Deduct	-117.16	
		For >40, Deduct	-246.29	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0492	EA	25'	High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,211.36 132.33 264.66 -75.13 -137.03 -287.30	444.03
26 56 13 00-0493	EA	20'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,072.94 140.69 281.38 -72.93 -131.79 -277.64	333.03
26 56 13 00-0494	EA	25'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,484.16 159.61 319.22 -86.05 -156.13 -328.22	444.03
26 56 13 00-0495	EA	30'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,878.97 187.99 375.98 -100.17 -181.55 -381.89	499.53
26 56 13 00-0496	Square Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0474) Note: Includes rubberized undercoating on embedded portion.				
26 56 13 00-0497	EA	10'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	710.92 43.34 86.68 -24.27 -44.21 -92.76	138.76
26 56 13 00-0498	EA	12'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	794.77 48.95 97.90 -27.21 -49.53 -103.95	152.63
26 56 13 00-0499	EA	14'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	845.63 51.26 102.52 -28.83 -52.53 -110.19	166.51
26 56 13 00-0500	EA	15'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	873.13 54.01 108.02 -29.93 -54.46 -114.32	166.51
26 56 13 00-0501	EA	16'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	907.23 57.42 114.84 -31.29 -56.85 -119.43	166.51
26 56 13 00-0502	EA	18'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,051.57 69.08 138.16 -36.65 -66.39 -139.70	180.39
26 56 13 00-0503	EA	20'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,126.63 73.81 147.62 -39.24 -71.09 -149.57	194.27
26 56 13 00-0504	EA	20'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,299.33 91.08 182.16 -46.15 -83.18 -175.47	194.27
26 56 13 00-0505	EA	25'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,493.43 104.94 209.88 -53.08 -95.66 -201.81	222.01

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0506	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial	1,879.53	222.01
		For Bronze Or Satin Anodized Finish, Add	143.55	
		For Black Anodized Finish, Add	287.10	
		For >10 To 20, Deduct	-68.52	
		For >20 To 40, Deduct	-122.69	
		For >40, Deduct	-259.73	
26 56 13 00-0507		Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0295)		
26 56 13 00-0508	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	39.00	
26 56 13 00-0509	EA	Extra Handhole For Aluminum Area Light Poles	41.00	
26 56 13 00-0510	EA	Festoon Outlet Provision For Aluminum Area Light Poles	42.00	
		Note: Excludes electrical outlet.		
26 56 13 00-0511	EA	Vibration Dampener For Aluminum Area Light Poles	59.00	
26 56 13 00-0512		Fiberglass Area Light Poles (26 56 13 00-0177)		
		Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0513		Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0512)		
26 56 13 00-0514		Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0513)		
26 56 13 00-0515	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,035.33	194.27
		For >10 To 20, Deduct	-35.59	
		For >20 To 40, Deduct	-64.70	
		For >40, Deduct	-135.87	
26 56 13 00-0516	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,129.33	222.01
		For >10 To 20, Deduct	-38.51	
		For >20 To 40, Deduct	-70.17	
		For >40, Deduct	-147.20	
26 56 13 00-0517	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,224.43	249.77
		For >10 To 20, Deduct	-41.48	
		For >20 To 40, Deduct	-75.72	
		For >40, Deduct	-158.69	
26 56 13 00-0518	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,318.44	277.52
		For >10 To 20, Deduct	-44.41	
		For >20 To 40, Deduct	-81.19	
		For >40, Deduct	-170.01	
26 56 13 00-0519	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,432.25	305.27
		For >10 To 20, Deduct	-48.13	
		For >20 To 40, Deduct	-88.05	
		For >40, Deduct	-184.31	
26 56 13 00-0520	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,528.44	333.03
		For >10 To 20, Deduct	-51.15	
		For >20 To 40, Deduct	-93.67	
		For >40, Deduct	-195.96	
26 56 13 00-0521	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,679.05	388.53
		For >10 To 20, Deduct	-55.51	
		For >20 To 40, Deduct	-101.99	
		For >40, Deduct	-213.01	
26 56 13 00-0522	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,828.56	444.03
		For >10 To 20, Deduct	-59.82	
		For >20 To 40, Deduct	-110.24	
		For >40, Deduct	-229.88	
26 56 13 00-0523	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,917.66	444.03
		For >10 To 20, Deduct	-63.39	
		For >20 To 40, Deduct	-116.48	
		For >40, Deduct	-243.25	
26 56 13 00-0524	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,051.26	471.79
		For >10 To 20, Deduct	-67.90	
		For >20 To 40, Deduct	-124.72	
		For >40, Deduct	-260.51	
26 56 13 00-0525	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,184.87	499.53
		For >10 To 20, Deduct	-72.41	
		For >20 To 40, Deduct	-132.96	
		For >40, Deduct	-277.78	
26 56 13 00-0526	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,136.53	194.27
		For >10 To 20, Deduct	-39.63	
		For >20 To 40, Deduct	-71.79	
		For >40, Deduct	-151.05	
26 56 13 00-0527	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,210.73	222.01
		For >10 To 20, Deduct	-41.77	
		For >20 To 40, Deduct	-75.87	
		For >40, Deduct	-159.41	
26 56 13 00-0528	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,286.03	249.77
		For >10 To 20, Deduct	-43.95	
		For >20 To 40, Deduct	-80.03	
		For >40, Deduct	-167.93	
26 56 13 00-0529	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,363.54	277.52
		For >10 To 20, Deduct	-46.22	
		For >20 To 40, Deduct	-84.35	
		For >40, Deduct	-176.78	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0530	EA	18'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,446.55	305.27
			For >10 To 20, Deduct	-48.70	
			For >20 To 40, Deduct	-89.05	
			For >40, Deduct	-186.46	
26 56 13 00-0531	EA	20'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,528.44	333.03
			For >10 To 20, Deduct	-51.15	
			For >20 To 40, Deduct	-93.67	
			For >40, Deduct	-195.96	
26 56 13 00-0532	EA	22'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,665.85	388.53
			For >10 To 20, Deduct	-54.98	
			For >20 To 40, Deduct	-101.07	
			For >40, Deduct	-211.03	
26 56 13 00-0533	EA	24'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,828.56	444.03
			For >10 To 20, Deduct	-59.82	
			For >20 To 40, Deduct	-110.24	
			For >40, Deduct	-229.88	
26 56 13 00-0534	EA	26'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,865.96	444.03
			For >10 To 20, Deduct	-61.32	
			For >20 To 40, Deduct	-112.86	
			For >40, Deduct	-235.49	
26 56 13 00-0535	EA	28'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,959.96	471.79
			For >10 To 20, Deduct	-64.25	
			For >20 To 40, Deduct	-118.33	
			For >40, Deduct	-246.82	
26 56 13 00-0536	EA	30'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,053.97	499.53
			For >10 To 20, Deduct	-67.17	
			For >20 To 40, Deduct	-123.80	
			For >40, Deduct	-258.14	
26 56 13 00-0537	EA	10'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,285.03	194.27
			For >10 To 20, Deduct	-45.57	
			For >20 To 40, Deduct	-82.18	
			For >40, Deduct	-173.33	
26 56 13 00-0538	EA	12'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,374.63	222.01
			For >10 To 20, Deduct	-48.32	
			For >20 To 40, Deduct	-87.34	
			For >40, Deduct	-183.99	
26 56 13 00-0539	EA	14'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,464.23	249.77
			For >10 To 20, Deduct	-51.08	
			For >20 To 40, Deduct	-92.51	
			For >40, Deduct	-194.66	
26 56 13 00-0540	EA	16'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,554.94	277.52
			For >10 To 20, Deduct	-53.87	
			For >20 To 40, Deduct	-97.75	
			For >40, Deduct	-205.49	
26 56 13 00-0541	EA	18'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,650.05	305.27
			For >10 To 20, Deduct	-56.84	
			For >20 To 40, Deduct	-103.29	
			For >40, Deduct	-216.98	
26 56 13 00-0542	EA	20'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,751.74	333.03
			For >10 To 20, Deduct	-60.08	
			For >20 To 40, Deduct	-109.30	
			For >40, Deduct	-229.46	
26 56 13 00-0543	EA	22'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,918.85	388.53
			For >10 To 20, Deduct	-65.10	
			For >20 To 40, Deduct	-118.78	
			For >40, Deduct	-248.98	
26 56 13 00-0544	EA	24'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,087.06	444.03
			For >10 To 20, Deduct	-70.16	
			For >20 To 40, Deduct	-128.33	
			For >40, Deduct	-268.66	
26 56 13 00-0545	EA	26'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,144.26	444.03
			For >10 To 20, Deduct	-72.45	
			For >20 To 40, Deduct	-132.34	
			For >40, Deduct	-277.24	
26 56 13 00-0546	EA	28'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,289.96	471.79
			For >10 To 20, Deduct	-77.45	
			For >20 To 40, Deduct	-141.43	
			For >40, Deduct	-296.32	
26 56 13 00-0547	EA	30'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,410.37	499.53
			For >10 To 20, Deduct	-81.43	
			For >20 To 40, Deduct	-148.74	
			For >40, Deduct	-311.60	
26 56 13 00-0548	EA	32'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,503.02	513.41
			For >10 To 20, Deduct	-84.72	
			For >20 To 40, Deduct	-154.68	
			For >40, Deduct	-324.11	
26 56 13 00-0549	EA	34'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,595.67	527.28
			For >10 To 20, Deduct	-88.01	
			For >20 To 40, Deduct	-160.61	
			For >40, Deduct	-336.62	

26 56 13 00-0550 Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0513)

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0551 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	647.12	138.76
For >10 To 20, Deduct	-21.72	
For >20 To 40, Deduct	-39.75	
For >40, Deduct	-83.19	
26 56 13 00-0552 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	695.77	152.63
For >10 To 20, Deduct	-23.25	
For >20 To 40, Deduct	-42.60	
For >40, Deduct	-89.10	
26 56 13 00-0553 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	743.33	166.51
For >10 To 20, Deduct	-24.74	
For >20 To 40, Deduct	-45.37	
For >40, Deduct	-94.85	
26 56 13 00-0554 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	762.03	166.51
For >10 To 20, Deduct	-25.49	
For >20 To 40, Deduct	-46.68	
For >40, Deduct	-97.65	
26 56 13 00-0555 EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	820.57	180.39
For >10 To 20, Deduct	-27.41	
For >20 To 40, Deduct	-50.22	
For >40, Deduct	-105.05	
26 56 13 00-0556 EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	870.33	194.27
For >10 To 20, Deduct	-28.99	
For >20 To 40, Deduct	-53.15	
For >40, Deduct	-111.12	
26 56 13 00-0557 EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	923.38	208.14
For >10 To 20, Deduct	-30.69	
For >20 To 40, Deduct	-56.31	
For >40, Deduct	-117.69	
26 56 13 00-0558 EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	981.93	222.01
For >10 To 20, Deduct	-32.62	
For >20 To 40, Deduct	-59.85	
For >40, Deduct	-125.09	
26 56 13 00-0559 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,087.53	222.01
For >10 To 20, Deduct	-36.84	
For >20 To 40, Deduct	-67.25	
For >40, Deduct	-140.93	
26 56 13 00-0560 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,220.89	235.89
For >10 To 20, Deduct	-41.76	
For >20 To 40, Deduct	-76.03	
For >40, Deduct	-159.54	
26 56 13 00-0561 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,354.23	249.77
For >10 To 20, Deduct	-46.68	
For >20 To 40, Deduct	-84.81	
For >40, Deduct	-178.16	
26 56 13 00-0562 EA 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	748.32	138.76
For >10 To 20, Deduct	-25.77	
For >20 To 40, Deduct	-46.83	
For >40, Deduct	-98.37	
26 56 13 00-0563 EA 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	802.47	152.63
For >10 To 20, Deduct	-27.52	
For >20 To 40, Deduct	-50.07	
For >40, Deduct	-105.11	
26 56 13 00-0564 EA 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	856.63	166.51
For >10 To 20, Deduct	-29.27	
For >20 To 40, Deduct	-53.30	
For >40, Deduct	-111.84	
26 56 13 00-0565 EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	884.13	166.51
For >10 To 20, Deduct	-30.37	
For >20 To 40, Deduct	-55.23	
For >40, Deduct	-115.97	
26 56 13 00-0566 EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	938.27	180.39
For >10 To 20, Deduct	-32.12	
For >20 To 40, Deduct	-58.46	
For >40, Deduct	-122.70	
26 56 13 00-0567 EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	992.43	194.27
For >10 To 20, Deduct	-33.87	
For >20 To 40, Deduct	-61.70	
For >40, Deduct	-129.44	
26 56 13 00-0568 EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,046.58	208.14
For >10 To 20, Deduct	-35.62	
For >20 To 40, Deduct	-64.94	
For >40, Deduct	-136.17	
26 56 13 00-0569 EA 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,126.03	222.01
For >10 To 20, Deduct	-38.38	
For >20 To 40, Deduct	-69.94	
For >40, Deduct	-146.70	
26 56 13 00-0570 EA 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,228.33	222.01
For >10 To 20, Deduct	-42.47	
For >20 To 40, Deduct	-77.10	
For >40, Deduct	-162.05	
26 56 13 00-0571 EA 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,359.49	235.89
For >10 To 20, Deduct	-47.30	
For >20 To 40, Deduct	-85.73	
For >40, Deduct	-180.33	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0572 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,489.53	249.77
For >10 To 20, Deduct	-52.09	
For >20 To 40, Deduct	-94.28	
For >40, Deduct	-198.45	
26 56 13 00-0573 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	837.42	138.76
For >10 To 20, Deduct	-29.33	
For >20 To 40, Deduct	-53.07	
For >40, Deduct	-111.74	
26 56 13 00-0574 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	884.97	152.63
For >10 To 20, Deduct	-30.82	
For >20 To 40, Deduct	-55.84	
For >40, Deduct	-117.48	
26 56 13 00-0575 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	931.43	166.51
For >10 To 20, Deduct	-32.26	
For >20 To 40, Deduct	-58.54	
For >40, Deduct	-123.06	
26 56 13 00-0576 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	950.13	166.51
For >10 To 20, Deduct	-33.01	
For >20 To 40, Deduct	-59.85	
For >40, Deduct	-125.87	
26 56 13 00-0577 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	996.57	180.39
For >10 To 20, Deduct	-34.45	
For >20 To 40, Deduct	-62.54	
For >40, Deduct	-131.45	
26 56 13 00-0578 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,044.13	194.27
For >10 To 20, Deduct	-35.94	
For >20 To 40, Deduct	-65.32	
For >40, Deduct	-137.19	
26 56 13 00-0579 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,129.08	208.14
For >10 To 20, Deduct	-38.92	
For >20 To 40, Deduct	-70.71	
For >40, Deduct	-148.55	
26 56 13 00-0580 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,227.23	222.01
For >10 To 20, Deduct	-42.43	
For >20 To 40, Deduct	-77.03	
For >40, Deduct	-161.88	
26 56 13 00-0581 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,291.03	222.01
For >10 To 20, Deduct	-44.98	
For >20 To 40, Deduct	-81.49	
For >40, Deduct	-171.45	
26 56 13 00-0582 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,383.69	235.89
For >10 To 20, Deduct	-48.27	
For >20 To 40, Deduct	-87.42	
For >40, Deduct	-183.96	
26 56 13 00-0583 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,476.33	249.77
For >10 To 20, Deduct	-51.56	
For >20 To 40, Deduct	-93.35	
For >40, Deduct	-196.47	
26 56 13 00-0584 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0512)		
26 56 13 00-0585 EA Open Or Capped Top For Fiberglass Area Light Poles.....	39.00	
26 56 13 00-0586 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	39.00	
26 56 13 00-0587 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....	74.00	
26 56 13 00-0588 EA Festoon Outlet Provision For Fiberglass Area Light Poles.....	78.00	
Note: Excludes electrical outlet.		
26 56 13 00-0589 EA Vibration Dampener For Fiberglass Area Light Poles.....	98.00	
26 56 13 00-0590 Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0591 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0590)		
26 56 13 00-0592 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	1,928.64	471.79
26 56 13 00-0593 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,033.41	499.53
26 56 13 00-0594 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,109.27	513.41
26 56 13 00-0595 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,622.45	527.28
26 56 13 00-0596 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,913.14	555.04
26 56 13 00-0597 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,605.71	721.55
26 56 13 00-0598 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,319.68	888.06
26 56 13 00-0599 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,186.79	471.79
Note: Polished brown with acrylic coating finish.		
26 56 13 00-0600 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,831.99	499.53
Note: Polished brown with acrylic coating finish.		
26 56 13 00-0601 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	454.80	166.51
26 56 13 00-0602 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	2,509.43	332.91
26 56 13 00-0603 EA Pole Base Cover For All Octagon Poles.....	177.48	67.94
26 56 13 00-0604 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	362.03	135.87
26 56 13 00-0605 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0590)		
Note: Round or square.		
26 56 13 00-0606 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,071.27	222.01
26 56 13 00-0607 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,340.54	277.52
26 56 13 00-0608 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,584.52	333.03

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0609 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	3,601.27	499.53
26 56 13 00-0610 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,152.72	527.28
26 56 13 00-0611 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,749.00	555.04
26 56 13 00-0612 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	5,505.34	721.55
26 56 13 00-0613 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0590)		
26 56 13 00-0614 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22)	10,158.45	1,248.84
26 56 13 00-0615 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24)	12,113.31	1,551.62
26 56 13 00-0616 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26)	14,435.35	2,096.05
26 56 13 00-0617 Treated Wood Area Light Poles (26 56 13 00-0177)		
See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0618 Cast Iron Decorative Light Posts (26 56 13 00-0177)		
26 56 13 00-0619 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0618)		
Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0620 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	814.54	138.76
26 56 13 00-0621 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	870.98	159.85
26 56 13 00-0622 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	938.45	166.51
26 56 13 00-0623 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,143.87	194.27
26 56 13 00-0624 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,321.83	210.91
26 56 13 00-0625 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,507.69	227.57
26 56 13 00-0626 Landscape Light Poles (26 56 13 00-0001)		
26 56 13 00-0627 Aluminum Landscape Light Poles (26 56 13 00-0626)		
Note: Includes painted finish.		
26 56 13 00-0628 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0627)		
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0628)		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	430.92	166.51
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base	753.83	222.01
26 56 13 00-0632 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0628)		
26 56 13 00-0633 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	384.85	166.51
26 56 13 00-0634 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial	707.77	222.01
26 56 13 00-0635 Steel Landscape Light Poles (26 56 13 00-0626)		
Note: Includes painted finish.		
26 56 13 00-0636 Round Straight, Steel Landscape Light Poles (26 56 13 00-0635)		
26 56 13 00-0637 Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0636)		
26 56 13 00-0638 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base	399.61	166.51
26 56 13 00-0639 Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0636)		
26 56 13 00-0640 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial	384.70	166.51
26 56 13 00-0641 Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0642 Light Pole Brackets (26 56 13 00-0641)		
26 56 13 00-0643 Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0642)		
26 56 13 00-0644 Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0643)		
26 56 13 00-0645 Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0644)		
Note: Includes powdercoat finish.		
26 56 13 00-0646 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	333.62	33.30
For Galvanized Finish, Add		26.70
26 56 13 00-0647 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	414.18	33.30
For Galvanized Finish, Add		34.76
26 56 13 00-0648 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	438.78	33.30
For Galvanized Finish, Add		37.22
26 56 13 00-0649 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	590.57	33.30
For Galvanized Finish, Add		52.40
26 56 13 00-0650 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket	614.21	33.30
For Galvanized Finish, Add		54.76
26 56 13 00-0651 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0644)		
Note: Includes satin brushed or painted finish.		
26 56 13 00-0652 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket	245.91	33.30
For Bronze Or Satin Anodized Finish, Add		17.93
For Black Anodized Finish, Add		35.86



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0653 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	303.11 23.65 47.30	33.30
26 56 13 00-0654 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	318.51 25.19 50.38	33.30
26 56 13 00-0655 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	372.41 30.58 61.16	33.30
26 56 13 00-0656 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	383.41 31.68 63.36	33.30
26 56 13 00-0657 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0643)		
26 56 13 00-0658 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0657) Note: Includes powdercoat finish.		
26 56 13 00-0659 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	356.63 29.00	33.30
26 56 13 00-0660 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket <i>For Galvanized Finish, Add</i>	433.79 36.72	33.30
26 56 13 00-0661 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket <i>For Galvanized Finish, Add</i>	524.42 45.78	33.30
26 56 13 00-0662 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket <i>For Galvanized Finish, Add</i>	615.48 54.89	33.30
26 56 13 00-0663 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0642)		
26 56 13 00-0664 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0663) Note: Includes powdercoat finish.		
26 56 13 00-0665 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	357.99	55.51
26 56 13 00-0666 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	515.93	55.51
26 56 13 00-0667 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	702.81	55.51
26 56 13 00-0668 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	764.29	55.51
26 56 13 00-0669 Light Pole Arms (26 56 13 00-0641)		
26 56 13 00-0670 Wood Pole Streetlight Arms (26 56 13 00-0669)		
26 56 13 00-0671 Steel, Wood Pole Streetlight Arms (26 56 13 00-0670)		
26 56 13 00-0672 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	223.08	49.95
26 56 13 00-0673 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	238.32	55.51
26 56 13 00-0674 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	280.59	69.38
26 56 13 00-0675 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	314.00	55.51
26 56 13 00-0676 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	356.06	69.38
26 56 13 00-0677 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	431.40	83.25
26 56 13 00-0678 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0670)		
26 56 13 00-0679 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	234.18	55.51
26 56 13 00-0680 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	297.36	55.51
26 56 13 00-0681 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	400.16	69.38
26 56 13 00-0682 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	529.14	83.25
26 56 13 00-0683 Area Light Arms (26 56 13 00-0669)		
26 56 13 00-0684 Steel Area Light Arms (26 56 13 00-0683)		
26 56 13 00-0685 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	392.61	55.51
26 56 13 00-0686 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	594.01	61.05
26 56 13 00-0687 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	659.00	66.61
26 56 13 00-0688 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	776.81	72.15
26 56 13 00-0689 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	470.96	69.38
26 56 13 00-0690 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	652.56	74.93
26 56 13 00-0691 Aluminum Area Light Arms (26 56 13 00-0683)		
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	290.31	55.51
26 56 13 00-0693 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	357.66	69.38
26 56 13 00-0694 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	427.21	83.25
26 56 13 00-0695 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	288.11	55.51
26 56 13 00-0696 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	418.01	61.05
26 56 13 00-0697 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	353.26	69.38
26 56 13 00-0698 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	509.56	74.93
26 56 13 00-0699 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	429.41	83.25
26 56 13 00-0700 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	619.81	88.81
26 56 13 00-0701 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0702 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	1,831.63	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0703	High Mast Lighting	(26 56 13 00-0001)		
26 56 13 00-0704	High Mast Lighting Assemblies	(26 56 13 00-0703)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 19 00-0021 for high mast fixtures.				
26 56 13 00-0705	EA	60'-100' High Mast Lighting Assembly	24,015.17	2,912.68
26 56 13 00-0706	EA	110' High Mast Lighting Assembly	25,833.65	3,198.51
26 56 13 00-0707	EA	120' High Mast Lighting Assembly	27,210.88	3,497.95
26 56 13 00-0708	EA	130' High Mast Lighting Assembly	28,486.36	3,783.77
26 56 13 00-0709	EA	140' High Mast Lighting Assembly	29,863.60	4,083.21
26 56 13 00-0710	EA	150' High Mast Lighting Assembly	31,464.26	4,375.89
26 56 13 00-0711	High Mast Light Poles	(26 56 13 00-0703)		
26 56 13 00-0712	EA	60'-100' High Mast Light Poles.....	14,622.79	2,330.15
26 56 13 00-0713	EA	110' High Mast Light Poles	16,013.87	2,558.81
26 56 13 00-0714	EA	120' High Mast Light Poles	17,099.79	2,798.36
26 56 13 00-0715	EA	130' High Mast Light Poles	18,084.01	3,027.02
26 56 13 00-0716	EA	140' High Mast Light Poles	19,169.97	3,266.56
26 56 13 00-0717	EA	150' High Mast Light Poles	20,357.62	3,500.67
26 56 13 00-0718	High Mast Lighting Accessories	(26 56 13 00-0703)		
See CSI section 26 56 19 00-0021 for light fixtures, 26 56 26 00-0119 for lighting fixtures.				
26 56 13 00-0719	EA	Bottom Latching System For High Mast Lighting	353.32	
26 56 13 00-0720	EA	Top Latching System For High Mast Lighting	919.90	
26 56 13 00-0721	EA	Centering Springs For High Mast Lighting	695.57	
26 56 13 00-0722	EA	Electric Power Cord For High Mast Lighting	313.23	
26 56 13 00-0723	EA	Aircraft Warning Lights For High Mast Lighting.....	738.77	
26 56 13 00-0724	EA	Internal Motorized Hoist For High Mast Lighting	5,213.79	
26 56 13 00-0725	EA	Portable Hoist Motor With Step Down Transformer For High Mast Lighting.....	5,301.32	
26 56 13 00-0726	Concrete Bases	(26 56 13 00-0001)		
26 56 13 00-0727	Concrete Bases, Cast In Place	(26 56 13 00-0726)		
Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.				
26 56 13 00-0728	VLF	2' Diameter Concrete Base For Poles.....	79.88	
26 56 13 00-0729	VLF	2-1/2' Diameter Concrete Base For Poles.....	101.07	
26 56 13 00-0730	VLF	3' Diameter Concrete Base For Poles.....	122.74	
26 56 13 00-0731	VLF	3-1/2' Diameter Concrete Base For Poles.....	151.70	
26 56 13 00-0732	VLF	4' Diameter Concrete Base For Poles.....	181.40	
26 56 13 00-0733	VLF	5' Diameter Concrete Base For Poles.....	250.10	
26 56 13 00-0734	VLF	6' Diameter Concrete Base For Poles.....	332.26	
26 56 19	Roadway Lighting	(26 56)		
26 56 19 00-0001	Metal Halide, Pole Mounted	(26 56 19)		
26 56 19 00-0002	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	638.37	226.85
26 56 19 00-0003	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	724.06	246.24
26 56 19 00-0004	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	849.45	264.88
26 56 19 00-0005	EA	1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,064.98	310.44
26 56 19 00-0006	High Pressure Sodium, Pole Mounted	(26 56 19)		
26 56 19 00-0007	EA	100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	530.50	264.88
26 56 19 00-0008	EA	150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	543.15	264.88
26 56 19 00-0009	EA	175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	567.20	264.88
26 56 19 00-0010	EA	250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	623.91	264.88
26 56 19 00-0011	EA	400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	721.83	264.88
26 56 19 00-0012	EA	1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,001.50	264.88
26 56 19 00-0013	Low Pressure Sodium, Pole Mounted	(26 56 19)		
26 56 19 00-0014	EA	135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	617.34	144.10
26 56 19 00-0015	EA	135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	642.43	211.90
26 56 19 00-0016	EA	180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	754.19	211.90
26 56 19 00-0017	Street Light Accessories	(26 56 19)		
26 56 19 00-0018	Photo Controls	(26 56 19 00-0017)		
26 56 19 00-0019	EA	Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	74.71	
26 56 19 00-0020	EA	Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	83.02	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0021 High Mast Fixtures (26 56 19)		
26 56 19 00-0022 Metal Halide (26 56 19 00-0021)		
26 56 19 00-0023 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,054.79	139.12
26 56 19 00-0024 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,122.43	139.12
26 56 19 00-0025 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,123.57	158.93
26 56 19 00-0026 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,164.15	158.93
26 56 19 00-0027 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,196.84	198.67
26 56 19 00-0028 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,237.43	198.67
26 56 19 00-0029 High Pressure Sodium (26 56 19 00-0021)		
26 56 19 00-0030 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	1,087.50	139.12
26 56 19 00-0031 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,128.09	139.12
26 56 19 00-0032 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	1,304.96	147.06
26 56 19 00-0033 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	1,341.14	158.93
26 56 19 00-0034 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	1,434.71	198.67
26 56 19 00-0035 LED Roadway Lighting (26 56 19)		
26 56 19 00-0036 LED Roadway Lighting (Philips Lumec) (26 56 19 00-0035)		
26 56 19 00-0037 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0036)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0038 EA 49 LEDs, 102 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series)	911.74	135.06
26 56 19 00-0039 EA 98 LEDs, 204 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	1,372.15	138.72
26 56 19 00-0040 LED Roadway Lighting (Lithonia) (26 56 19 00-0035)		
26 56 19 00-0041 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0040)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0042 EA 30 LEDs, 74 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series)	1,276.09	127.76
26 56 19 00-0043 EA 60 LEDs, 146 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series)	2,053.29	131.41
26 56 19 00-0044 LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0035)		
26 56 19 00-0045 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0044)		
Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0046 EA UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.	607.32	124.11
26 56 19 00-0047 EA 30 LEDs, 35 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	675.52	127.76
26 56 19 00-0048 EA 40 LEDs, 45 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	757.37	131.41
26 56 19 00-0049 EA 50 LEDs, 55 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	826.63	135.06
26 56 19 00-0050 EA 60 LEDs, 65 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	895.87	138.72
26 56 19 00-0051 EA 70 LEDs, 75 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,057.52	142.37
26 56 19 00-0052 EA 80 LEDs, 86 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,126.78	146.02
26 56 19 00-0053 EA 90 LEDs, 96 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,194.98	149.66
26 56 19 00-0054 EA 100 LEDs, 111 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,326.18	153.31
26 56 19 00-0055 EA 110 LEDs, 122 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,395.42	156.96
26 56 19 00-0056 EA 120 LEDs, 133 System Watts, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,464.68	160.61
26 56 19 00-0057 Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0044)		
Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0058 EA 40 LEDs, 47 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG)	1,140.62	131.41
For Multi-Level Drive Currents, Add		147.00

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0059	EA	60 LEDs, 68 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG) <i>For Multi-Level Drive Currents, Add</i>	1,309.57 147.00	138.72
26 56 19 00-0060	EA	80 LEDs, 90 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG) <i>For Multi-Level Drive Currents, Add</i>	1,478.53 147.00	146.02
26 56 19 00-0061	EA	100 LEDs, 111 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG) <i>For Multi-Level Drive Currents, Add</i>	1,647.48 147.00	153.31
26 56 19 00-0062	EA	120 LEDs, 132 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG) <i>For Multi-Level Drive Currents, Add</i>	2,144.03 147.00	160.61
26 56 19 00-0063	EA	140 LEDs, 157 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG) <i>For Multi-Level Drive Currents, Add</i>	2,312.98 147.00	167.92
26 56 19 00-0064	EA	160 LEDs, 179 System Watts, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG) <i>For Multi-Level Drive Currents, Add</i>	2,481.93 147.00	175.22
26 56 19 00-0065 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0044)				
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 56 19 00-0066	EA	4,806 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Backlight Control Shield, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Bird Spikes, Add</i> <i>For Field Adjustable Output And Utility Label, Add</i> <i>For Fuse, Add</i> <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i>	521.58 12.38 24.85 18.58 36.54 24.77 37.15 37.15 55.73 80.49	131.41
26 56 19 00-0067	EA	5,340 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Backlight Control Shield, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Bird Spikes, Add</i> <i>For Field Adjustable Output And Utility Label, Add</i> <i>For Fuse, Add</i> <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i>	521.58 12.38 24.85 18.58 36.54 24.77 37.15 37.15 55.73 80.49	131.41
26 56 19 00-0068	EA	8,407 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Backlight Control Shield, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Bird Spikes, Add</i> <i>For Field Adjustable Output And Utility Label, Add</i> <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 480 Volt, Add</i>	568.39 12.38 24.85 18.58 36.54 24.77 37.15 55.73	131.41
26 56 19 00-0069	EA	8,820 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Backlight Control Shield, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Bird Spikes, Add</i> <i>For Field Adjustable Output And Utility Label, Add</i> <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 480 Volt, Add</i>	568.39 12.38 24.85 18.58 36.54 24.77 37.15 55.73	131.41
26 56 19 00-0070	EA	9,612 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Backlight Control Shield, Add</i> <i>For Field Adjustable Output And Utility Label, Add</i> <i>For Fuse, Add</i> <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Bird Spikes, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i>	651.60 12.38 18.58 33.94 24.77 37.15 37.15 57.36 55.73 80.49	131.41
26 56 19 00-0071	EA	10,680 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B) <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Field Adjustable Output, Add</i> <i>For Backlight Control Shield, Add</i> <i>For Field Adjustable Output And Utility Label, Add</i> <i>For Fuse, Add</i> <i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Bird Spikes, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i>	651.60 12.38 18.58 33.94 24.77 37.15 37.15 57.36 55.73 80.49	131.41



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0072	EA		13,732 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	729.63	131.41
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Field Adjustable Output, Add	18.58	
			For Backlight Control Shield, Add	33.94	
			For Field Adjustable Output And Utility Label, Add	24.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	37.15	
			For Bird Spikes, Add	57.36	
			For 480 Volt, Add	55.73	
26 56 19 00-0073	EA		14,408 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	729.63	131.41
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Field Adjustable Output, Add	18.58	
			For Backlight Control Shield, Add	33.94	
			For Field Adjustable Output And Utility Label, Add	24.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	37.15	
			For Bird Spikes, Add	57.36	
			For 480 Volt, Add	55.73	
26 56 19 00-0074	EA		2,529 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	438.36	131.41
			For Utility Label, Add	6.19	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.58	
			For 0 To 10 Volt Dimming, Add	37.15	
26 56 19 00-0075	EA		2,722 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	438.36	131.41
			For Utility Label, Add	6.19	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.58	
			For 0 To 10 Volt Dimming, Add	37.15	
26 56 19 00-0076	EA		3,819 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C).....	457.87	131.41
			For Utility Label, Add	6.19	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.58	
			For 0 To 10 Volt Dimming, Add	37.15	
26 56 19 00-0077	EA		4,109 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C).....	457.87	131.41
			For Utility Label, Add	6.19	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	18.58	
			For 0 To 10 Volt Dimming, Add	37.15	
26 56 19 00-0078	EA		4,548 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	464.37	131.41
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Field Adjustable Output, Add	18.58	
			For Field Adjustable Output And Utility Label, Add	24.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
26 56 19 00-0079	EA		4,627 Lumens, 5,700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	464.37	131.41
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Field Adjustable Output, Add	18.58	
			For Field Adjustable Output And Utility Label, Add	24.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
26 56 19 00-0080			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™) (26 56 19 00-0044) Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0081	EA		3,300 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N) (DLC Certified).....	451.37	131.41
			For Field Adjustable Output, Add	18.58	
			For Backlight Control Shield, Add	44.10	
			For Bird Spikes, Add	57.72	
26 56 19 00-0082	EA		3,300 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N) (DLC Certified).....	451.37	131.41
			For Field Adjustable Output, Add	18.58	
			For Backlight Control Shield, Add	44.10	
			For Bird Spikes, Add	57.72	
26 56 19 00-0083	EA		5,000 Lumens, 3,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N) (DLC Certified).....	464.37	131.41
			For Field Adjustable Output, Add	18.58	
			For Backlight Control Shield, Add	44.10	
			For Bird Spikes, Add	57.72	
26 56 19 00-0084	EA		5,000 Lumens, 4,000K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N) (DLC Certified).....	464.37	131.41
			For Field Adjustable Output, Add	18.58	
			For Backlight Control Shield, Add	44.10	
			For Bird Spikes, Add	57.72	
26 56 19 00-0085			LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0035)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0086		Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) (26 56 19 00-0085) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0087	EA	1 LED Light Square, 51 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	613.77	131.41
26 56 19 00-0088	EA	2 LED Light Squares, 103 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	809.15	146.02
26 56 19 00-0089	EA	3 LED Light Squares, 154 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	875.94	167.92
26 56 19 00-0090	EA	4 LED Light Squares, 206 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,255.57	182.51
26 56 19 00-0091	EA	6 LED Light Squares, 309 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,624.32	207.79
26 56 19 00-0092		LED Roadway Lighting (PlanLED) (26 56 19 00-0035)		
26 56 19 00-0093		Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0092) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0094	EA	8,500 Lumens, 85 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	711.22	127.76
26 56 19 00-0095	EA	11,000 Lumens, 110 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	766.53	129.17
26 56 19 00-0096	EA	15,000 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	810.92	131.41
26 56 19 00-0097		Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0092) Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0098	EA	7,200 Lumens, 60 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060).....	498.20	124.67
26 56 19 00-0099	EA	10,000 Lumens, 80 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080).....	528.94	126.92
26 56 19 00-0100	EA	12,500 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100).....	576.48	129.17
26 56 19 00-0101		Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0092) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0102	EA	13,000 Lumens, 100 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100).....	606.93	129.17
		For 0 To 10 Volt Dimming, Add	49.73	
		For 347-480 Volt, Add	49.73	
26 56 19 00-0103	EA	16,900 Lumens, 130 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130).....	663.78	130.29
		For 0 To 10 Volt Dimming, Add	49.73	
		For 347-480 Volt, Add	18.31	
26 56 19 00-0104	EA	19,500 Lumens, 150 System Watts, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150).....	708.02	131.41
		For 0 To 10 Volt Dimming, Add	49.73	
		For 347-480 Volt, Add	0.55	
26 56 19 00-0105		LED Roadway Lighting (General Electric) (26 56 19 00-0035)		
26 56 19 00-0106		Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0105) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0107	EA	2,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERX1 0 23).....	464.87	124.11
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0108	EA	4,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERX1 0 B1).....	494.97	127.76
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0109	EA	5,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERX1 0 C1).....	513.33	129.17
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0110	EA	9,600 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERX1 0 G1).....	565.56	135.06
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0111	EA	2,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 23).....	485.60	124.11
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0112	EA	4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 B2).....	534.37	127.76
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0113	EA	5,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 C2).....	545.47	129.17
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
26 56 19 00-0114	EA	10,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS1 0 G2).....	588.37	135.06
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0115	EA	11,600 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS2 0 E3)..... <i>For LightGrid™ Wireless Outdoor Controller, Add</i>	678.58 20.00	138.72
26 56 19 00-0116	EA	19,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERS2 0 G3)..... <i>For LightGrid™ Wireless Outdoor Controller, Add</i>	758.50 20.00	146.02
26 56 19 00-0117 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0035)				
26 56 19 00-0118 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0117)				
Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.				
26 56 19 00-0119	EA	4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	697.17	127.76
26 56 19 00-0120	EA	6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	846.09	131.41
26 56 19 00-0121	EA	9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	1,145.11	135.06
26 56 19 00-0122	EA	13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	1,447.40	140.40
26 56 19 00-0123	EA	17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	1,741.93	144.33
26 56 19 00-0124 LED Roadway Lighting (Leotek) (26 56 19 00-0035)				
26 56 19 00-0125 Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0124)				
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.				
26 56 19 00-0126	EA	2,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC1-4M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	369.04 1.24 12.44 13.68 29.02	124.11
26 56 19 00-0127	EA	4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC1-6M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	414.43 1.24 12.44 13.68 29.02	127.76
26 56 19 00-0128	EA	6,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC3-10M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	468.53 1.24 12.44 13.68 31.10	131.41
26 56 19 00-0129	EA	9,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC4-14M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	521.56 1.24 12.44 13.68 34.21	135.06
26 56 19 00-0130	EA	11,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC7-18M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	620.28 1.24 12.44 13.68 37.32	138.72
26 56 19 00-0131	EA	15,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC7-24M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	704.85 1.24 12.44 13.68 37.32	142.37
26 56 19 00-0132	EA	19,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek EC9-30M-MV-NW-X-GY-WL-XXX)..... <i>For Utility Wattage Label, Add</i> <i>For ANSI 5-wire Photocontrol Receptacle, Add</i> <i>For ANSI 7-wire Photocontrol Receptacle, Add</i> <i>For House Or Cul-De-Sac Side Shield, Add</i>	776.38 1.24 12.44 13.68 37.32	146.02
26 56 19 00-0133 Induction Roadway Lighting (26 56 19)				
26 56 19 00-0134 Induction Roadway Lighting (US Lighting Tech) (26 56 19 00-0133)				
Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.				
26 56 19 00-0135	EA	40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	619.56	168.48
26 56 19 00-0136	EA	70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	686.21	174.09
26 56 19 00-0137	EA	100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	708.67	185.33
26 56 19 00-0138	EA	150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	731.13	196.56
26 56 19 00-0139	EA	200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	869.83	202.17
26 56 19 00-0140	EA	250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	885.48	207.79
26 56 19 00-0141	EA	40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	573.01	168.48
26 56 19 00-0142	EA	70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	646.32	174.09
26 56 19 00-0143	EA	100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	668.78	185.33
26 56 19 00-0144	EA	150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	691.24	196.56

26 56 23 Area Lighting (26 56)

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0001 Exterior Globe (26 56 23)		
26 56 23 00-0002 Incandescent (26 56 23 00-0001)		
26 56 23 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	55.35	18.97
26 56 23 00-0004 EA 150-200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	88.85	18.97
26 56 23 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	66.68	18.97
26 56 23 00-0006 EA 150-200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	93.21	18.97
26 56 23 00-0007 Surface Mounted, Rectangular Exterior Area Fixture (26 56 23)		
26 56 23 00-0008 Metal Halide (26 56 23 00-0007)		
26 56 23 00-0009 EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	594.59	211.90
26 56 23 00-0010 EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	684.15	238.39
26 56 23 00-0011 EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	827.07	264.88
26 56 23 00-0012 EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,044.18	310.44
26 56 23 00-0013 High Pressure Sodium (26 56 23 00-0007)		
26 56 23 00-0014 EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	581.30	181.18
26 56 23 00-0015 EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	633.61	192.83
26 56 23 00-0016 EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	685.94	203.43
26 56 23 00-0017 EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	708.62	211.90
26 56 23 00-0018 EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	790.24	238.39
26 56 23 00-0019 EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	854.56	264.88
26 56 23 00-0020 EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,149.87	310.44
26 56 23 00-0021 Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23)		
26 56 23 00-0022 High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23 00-0021)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0023 EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	554.46	143.03
26 56 23 00-0024 EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	578.32	158.93
26 56 23 00-0025 EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	531.36	181.18
26 56 23 00-0026 EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	640.29	192.83
26 56 23 00-0027 EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	660.26	203.43
26 56 23 00-0028 EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	691.56	211.90
26 56 23 00-0029 EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	757.20	238.39
26 56 23 00-0030 EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	911.24	264.88
26 56 23 00-0031 Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23 00-0021)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0032 EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	513.44	158.93
26 56 23 00-0033 EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	551.55	181.18
26 56 23 00-0034 EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	573.32	192.83
26 56 23 00-0035 EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	603.35	203.43
26 56 23 00-0036 EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	615.17	211.90
26 56 23 00-0037 EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	671.25	238.39
26 56 23 00-0038 EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	827.95	264.88
26 56 23 00-0039 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 23 00-0021)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 23 00-0040 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	191.27	75.89
26 56 23 00-0041 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	200.80	80.63
26 56 23 00-0042 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	217.97	85.38
26 56 23 00-0043 EA 35 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	227.39	94.85
26 56 23 00-0044 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	256.78	109.08
26 56 23 00-0045 Wall Packs (26 56 23)		
26 56 23 00-0046 Non Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 23 00-0045)		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 23 00-0047 EA 13 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	247.43	51.88
26 56 23 00-0048 EA 50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	260.92	51.88
26 56 23 00-0049 EA 35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	260.92	51.88
26 56 23 00-0050 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack.....	326.31	51.88
26 56 23 00-0051 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 23 00-0045)		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0052 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	431.84	51.88
26 56 23 00-0053 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	436.70	51.88
26 56 23 00-0054 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	440.89	51.88
26 56 23 00-0055 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	433.24	51.88
26 56 23 00-0056 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	401.77	51.88
26 56 23 00-0057 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack.....	384.49	51.88
26 56 23 00-0058 Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.		
26 56 23 00-0059 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	451.75	51.88
26 56 23 00-0060 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	456.17	51.88
26 56 23 00-0061 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	448.53	51.88
26 56 23 00-0062 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	454.69	51.88
26 56 23 00-0063 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack.....	454.69	51.88
26 56 23 00-0064 Non Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.		
26 56 23 00-0065 EA 70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	452.79	69.10
26 56 23 00-0066 EA 100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	452.79	69.10
26 56 23 00-0067 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	429.11	69.10
26 56 23 00-0068 EA 70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	438.19	69.10
26 56 23 00-0069 EA 100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	438.19	69.10
26 56 23 00-0070 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	411.93	69.10
26 56 23 00-0071 Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.		
26 56 23 00-0072 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	466.82	69.10
26 56 23 00-0073 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	466.82	69.10
26 56 23 00-0074 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	466.82	69.10
26 56 23 00-0075 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	452.89	69.10
26 56 23 00-0076 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	452.89	69.10
26 56 23 00-0077 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack.....	452.89	69.10
26 56 23 00-0078 Full Cutoff, Tempered Glass Lens, Small Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.		
26 56 23 00-0079 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	580.17	69.10
26 56 23 00-0080 Cutoff, Borosilicate Glass Lens, Medium Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. Lithonia TWR2. Note: 9-1/4" x 17-7/8" x 9-3/8".		
26 56 23 00-0081 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	569.82	85.60
26 56 23 00-0082 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	601.92	85.60
26 56 23 00-0083 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	640.20	85.60
26 56 23 00-0084 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	650.73	85.60
26 56 23 00-0085 Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.		
26 56 23 00-0086 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	611.11	85.60
26 56 23 00-0087 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	647.18	85.60
26 56 23 00-0088 Non Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 23 00-0045) Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.		
26 56 23 00-0089 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	591.43	103.76
26 56 23 00-0090 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	553.23	103.76
26 56 23 00-0091 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	582.59	103.76
26 56 23 00-0092 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	585.52	103.76
26 56 23 00-0093 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	588.58	103.76
26 56 23 00-0094 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 23 00-0045) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.		
26 56 23 00-0095 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	591.44	103.76
26 56 23 00-0096 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	604.19	103.76
26 56 23 00-0097 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	642.40	103.76
26 56 23 00-0098 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	616.93	103.76
26 56 23 00-0099 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	629.68	103.76
26 56 23 00-0100 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	655.13	103.76
26 56 23 00-0101 Full Cutoff, LED Wall Packs (26 56 23 00-0045)		
26 56 23 00-0102 Full Cutoff, LED Wall Packs (Lithonia) (26 56 23 00-0101)		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0103	EA		30 LEDs, 57 System Watts, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,013.36	98.28
26 56 23 00-0104	EA		30 LEDs, 35 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,102.02	98.28
26 56 23 00-0105			Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 23 00-0101)		
26 56 23 00-0106			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 23 00-0105)		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0107	EA		20 LEDs, 26 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	639.54	95.47
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Bird Spikes, Add	32.95	
			For Fuse, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
			For 480 Volt, Add	55.73	
			For Multi-Level, Add	80.49	
26 56 23 00-0108	EA		40 LEDs, 47 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	813.31	101.08
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Bird Spikes, Add	33.51	
			For Fuse, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
			For 480 Volt, Add	55.73	
			For Multi-Level, Add	80.49	
26 56 23 00-0109	EA		60 LEDs, 68 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	987.08	106.70
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Bird Spikes, Add	34.07	
			For Fuse, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
			For 480 Volt, Add	55.73	
			For Multi-Level, Add	80.49	
26 56 23 00-0110	EA		80 LEDs, 90 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,160.86	112.32
			Note: Includes 350mA or 525mA driver.		
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Bird Spikes, Add	34.63	
			For Fuse, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
			For 480 Volt, Add	55.73	
			For Multi-Level, Add	80.49	
26 56 23 00-0111	EA		100 LEDs, 111 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,334.63	117.93
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Bird Spikes, Add	35.19	
			For Fuse, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
			For 480 Volt, Add	55.73	
			For Multi-Level, Add	80.49	
26 56 23 00-0112	EA		120 LEDs, 132 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,508.40	123.55
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For Bird Spikes, Add	35.76	
			For Fuse, Add	37.15	
			For 0 To 10 Volt Dimming, Add	37.15	
			For 480 Volt, Add	55.73	
			For Multi-Level, Add	80.49	
26 56 23 00-0113			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56 23 00-0105)		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0114	EA		25 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	398.18	95.47
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For 0 To 10 Volt Dimming, Add	37.15	
			For Multi-Level, Add	37.15	
26 56 23 00-0115	EA		42 System Watts, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™).....	457.76	101.08
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
			For 0 To 10 Volt Dimming, Add	37.15	
			For Multi-Level, Add	37.15	
26 56 23 00-0116			Semi Cutoff, Induction Wall Packs (26 56 23 00-0045)		
26 56 23 00-0117			Semi Cutoff, Induction Wall Packs (Everlast®) (26 56 23 00-0116)		
			Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 23 00-0118	EA		70 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70).....	679.37	95.47
26 56 23 00-0119	EA		80 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80).....	696.05	101.08
26 56 23 00-0120	EA		100 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100).....	712.72	106.70
26 56 23 00-0121	EA		120 Watts, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120).....	789.26	112.32
26 56 23 00-0122			Wall Pack Accessories (26 56 23 00-0045)		
26 56 23 00-0123	EA		Photocell For Wall Pack.....	90.94	25.94



		Electrical	26
		Lighting	26 50
		Exterior Lighting	26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0124 EA Wire Guard For Mini And Small Wall Pack	99.10	25.94
26 56 23 00-0125 EA Wire Guard For Medium And Large Wall Pack	133.24	25.94
26 56 23 00-0126 EA Clear Polycarbonate Vandal Guard For Wall Packs	182.52	25.94
26 56 23 00-0127 EA Full Cutoff Visor For Wall Pack	96.87	25.94
26 56 23 00-0128 LED Area Fixtures (26 56 23)		
26 56 23 00-0129 Pole Mount, LED Area Fixtures (26 56 23 00-0128)		
26 56 23 00-0130 Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) (26 56 23 00-0129)		
Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0131 EA 20 LEDs, 45 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	1,922.62	95.47
26 56 23 00-0132 EA 40 LEDs, 91 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,072.38	101.08
26 56 23 00-0133 EA 80 LEDs, 188 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,233.39	112.32
26 56 23 00-0134 EA 100 LEDs, 218 System Watts, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,244.62	117.93
26 56 23 00-0135 Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) (26 56 23 00-0129)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 23 00-0136 EA 40 LEDs, 47 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	844.77	101.08
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	27.76	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	628.03	
26 56 23 00-0137 EA 60 LEDs, 68 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,010.35	106.70
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	28.32	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	631.40	
26 56 23 00-0138 EA 80 LEDs, 90 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,237.89	112.32
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	28.88	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	634.77	
26 56 23 00-0139 EA 100 LEDs, 111 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,403.47	117.93
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	29.44	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	638.14	
26 56 23 00-0140 EA 120 LEDs, 132 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,569.05	123.55
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	30.01	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	641.51	
26 56 23 00-0141 EA 140 LEDs, 157 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,783.98	129.17
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	30.57	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	644.88	
26 56 23 00-0142 EA 160 LEDs, 179 System Watts, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,949.56	134.78
For Backlight Shielding, Add	14.70	
For Type II Medium Optic, Add	31.13	
For 347-480 Volt, Add	53.89	
For Multi-Level Drive Currents, Add	147.00	
For Post Top Mount, Add	648.25	
26 56 23 00-0143 Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) (26 56 23 00-0129)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0144	EA	120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	1,455.08	123.55
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For Bird Spikes, Add	31.87	
		For 5,000K Color Temperature, Add	30.96	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For 480 Volt, Add	55.73	
		For Multi-Level, Add	80.49	
		For 1,000mA Driver, Add	104.03	
26 56 23 00-0145	EA	240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	2,421.47	151.63
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For 5,000K Color Temperature, Add	30.96	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For Bird Spikes, Add	46.38	
		For Multi-Level, Add	80.49	
		For 1,000mA Driver, Add	104.02	
		For 480 Volt, Add	111.45	
26 56 23 00-0146		Wall Mount, LED Area Fixtures (26 56 23 00-0128)		
26 56 23 00-0147		Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 23 00-0146)		
		Note: UL wet listed. Includes 4,000K color temperature, 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0148	EA	20 LEDs, 47 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	857.29	95.47
26 56 23 00-0149	EA	30 LEDs, 71 System Watts, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	879.75	106.70
26 56 23 00-0150		Surface Mount, LED Parking Structure Fixtures (26 56 23 00-0128)		
26 56 23 00-0151		Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 23 00-0150)		
		Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0152	EA	40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	752.37	101.08
		For Multi-Level Drive Currents, Add	147.00	
26 56 23 00-0153	EA	60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	917.95	106.70
		For Multi-Level Drive Currents, Add	147.00	
26 56 23 00-0154	EA	80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,083.54	112.32
		For Multi-Level Drive Currents, Add	147.00	
26 56 23 00-0155	EA	100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,249.12	117.93
		For Multi-Level Drive Currents, Add	147.00	
26 56 23 00-0156		Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 23 00-0150)		
		Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0157	EA	40 LEDs, 47 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	727.17	101.08
		For Multi-Level Drive Currents, Add	147.00	
26 56 23 00-0158	EA	60 LEDs, 68 System Watts, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	800.35	106.70
		For Multi-Level Drive Currents, Add	147.00	
26 56 23 00-0159		Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) (26 56 23 00-0150)		
		Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0160	EA	3,700 Lumens, 50 System Watts, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	597.82	101.08
26 56 23 00-0161		Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) (26 56 23 00-0150)		
		Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 23 00-0162	EA	70 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,082.60	106.70
26 56 23 00-0163	EA	110 System Watts, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,105.07	117.93
26 56 23 00-0164		Surface Mount, LED Canopy Fixtures (26 56 23 00-0128)		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0165	Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) (26 56 23 00-0164) Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0166	EA 40 LEDs, 47 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	863.67 147.00	101.08
26 56 23 00-0167	EA 60 LEDs, 68 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	1,029.25 147.00	106.70
26 56 23 00-0168	EA 80 LEDs, 90 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	1,194.84 147.00	112.32
26 56 23 00-0169	EA 100 LEDs, 111 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	1,360.42 147.00	117.93
26 56 23 00-0170	EA 120 LEDs, 132 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	1,526.00 147.00	123.55
26 56 23 00-0171	EA 140 LEDs, 157 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	1,753.53 147.00	129.17
26 56 23 00-0172	EA 160 LEDs, 179 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	1,919.11 147.00	134.78
26 56 23 00-0173	EA 200 LEDs, 221 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	2,250.28 147.00	146.02
26 56 23 00-0174	EA 240 LEDs, 264 System Watts, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG) For Multi-Level Drive Currents, Add	2,570.21 147.00	151.63
26 56 23 00-0175	Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) (26 56 23 00-0164) Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0176	EA 8,000 Lumens, 82 System Watts, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250)	620.49	112.32
26 56 23 00-0177	Recessed Mount, LED Soffit Fixtures (26 56 23 00-0128)		
26 56 23 00-0178	Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) (26 56 23 00-0177) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0179	EA 40 LEDs, 47 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304)	739.77	101.08
26 56 23 00-0180	EA 60 LEDs, 68 System Watts, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304)	812.95	106.70
26 56 23 00-0181	Surface Mount, LED Area Fixtures (26 56 23 00-0128)		
26 56 23 00-0182	Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) (26 56 23 00-0181) Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 23 00-0183	EA 50 LEDs, 59 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	656.25	101.08
26 56 23 00-0184	EA 50 LEDs, 59 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	806.88	101.08
26 56 23 00-0185	EA 68 LEDs, 79 System Watts, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	692.56	112.32
26 56 23 00-0186	EA 68 LEDs, 79 System Watts, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	836.95	112.32
26 56 23 00-0187	Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) (26 56 23 00-0181) Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 23 00-0188	EA 13 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A) For Knuckle Mount Or Trunnion Mount Base, Add	215.41 45.00	37.36
26 56 23 00-0189	EA 20 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A) For Knuckle Mount Or Trunnion Mount Base, Add	247.90 45.00	37.36
26 56 23 00-0190	EA 30 System Watts, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A) For Knuckle Mount Or Trunnion Mount Base, Add	309.78 45.00	37.36
26 56 23 00-0191	Surface Mount, LED Facade Fixtures (26 56 23 00-0128)		



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 56 23 00-0192	Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) (26 56 23 00-0191)				
26 56 23 00-0193	EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	407.18		43.63	
26 56 23 00-0194	EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	643.47		39.84	
26 56 23 00-0195	EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	811.92		33.20	
26 56 23 00-0196	EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™)	980.35		26.56	
26 56 23 00-0197	Post Top, LED Area Fixtures (26 56 23 00-0128)				
26 56 23 00-0198	Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) (26 56 23 00-0197)				
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.					
26 56 23 00-0199	EA 1,800 Lumens, 27 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1)	1,183.44		154.44	
26 56 23 00-0200	EA 3,400 Lumens, 54 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2)	1,295.02		154.44	
26 56 23 00-0201	EA 77 System Watts, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3)	1,383.23		154.44	
26 56 23 00-0202	Post Top, LED Area Fixtures (General Electric EPAS) (26 56 23 00-0197)				
Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.					
26 56 23 00-0203	EA 2,380 Lumens, 49 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 D5/D3)	1,401.93		154.44	
For >25 To 500, Deduct		-76.51			
For >500, Deduct		-142.10			
26 56 23 00-0204	EA 3,200 Lumens, 45 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3)	1,441.94		154.44	
For >25 To 500, Deduct		-79.31			
For >500, Deduct		-260.60			
26 56 23 00-0205	EA 4,630 Lumens, 86 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 B5/B3)	1,442.02		154.44	
For >25 To 500, Deduct		-79.32			
For >500, Deduct		-147.31			
26 56 23 00-0206	EA 6,515 Lumens, 80 System Watts, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3)	1,472.41		154.44	
For >25 To 500, Deduct		-81.45			
For >500, Deduct		-267.61			
26 56 23 00-0207	Post Top, LED Area Fixtures (General Electric EPTC) (26 56 23 00-0197)				
Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.					
26 56 23 00-0208	EA 2,380 Lumens, 49 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC D5/D3)	1,003.88		154.44	
For >25 To 500, Deduct		-48.65			
For >500, Deduct		-118.15			
26 56 23 00-0209	EA 3,200 Lumens, 45 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3)	1,029.32		154.44	
For >25 To 500, Deduct		-50.43			
For >500, Deduct		-208.93			
26 56 23 00-0210	EA 4,630 Lumens, 86 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC B5/B3)	1,047.88		154.44	
For >25 To 500, Deduct		-36.95			
For >500, Deduct		-133.02			
26 56 23 00-0211	EA 6,150 Lumens, 80 System Watts, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3)	1,074.93		154.44	
For >25 To 500, Deduct		-53.62			
For >500, Deduct		-199.17			
26 56 23 00-0212	Post Top, LED Area Fixtures (General Electric EPST) (26 56 23 00-0197)				
Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.					
26 56 23 00-0213	EA 2,250 Lumens, 49 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST D5/D3)	803.88		154.44	
For >25 To 500, Deduct		-34.65			
For >500, Deduct		-54.45			
26 56 23 00-0214	EA 3,135 Lumens, 45 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3)	822.00		154.44	
For >25 To 500, Deduct		-35.92			
For >500, Deduct		-107.76			
26 56 23 00-0215	EA 4,350 Lumens, 86 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST B5/B3)	847.88		154.44	
For >500, Deduct		-70.07			
For >25 To 500, Deduct		-32.34			
26 56 23 00-0216	EA 6,115 Lumens, 80 System Watts, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3)	867.61		154.44	
For >25 To 500, Deduct		-39.11			
For >500, Deduct		-117.33			



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0217 Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) ^(26 56 23 00-0197) Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 23 00-0218 EA 13,800 Lumens, 130 System Watts, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR)	1,909.08	154.44
26 56 23 00-0219 LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53) ^(26 56 23 00-0197) Note: Includes 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.		
26 56 23 00-0220 EA LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53)..... For 0 To 10 Volt Dimming, Add	552.08 37.15	84.24
26 56 23 00-0221 LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) ^(26 56 23 00-0197) Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0142 for disposal of hazardous lamps.		
26 56 23 00-0222 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT)	337.14 25.69	17.98
26 56 23 00-0223 Induction Area Fixtures ^(26 56 23)		
26 56 23 00-0224 Post Top, Induction Area Fixtures ^(26 56 23 00-0223)		
26 56 23 00-0225 Post Top, Induction Area Fixtures (US Lighting Tech) ^(26 56 23 00-0224) Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 23 00-0226 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	708.97	154.44
26 56 23 00-0227 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	773.25	154.44
26 56 23 00-0228 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	773.25	154.44
26 56 23 00-0229 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	773.25	154.44
26 56 23 00-0230 Surface Mount, Induction Parking Structure Fixtures ^(26 56 23 00-0223)		
26 56 23 00-0231 Surface Mount, Induction Parking Structure Fixtures (Everlast®) ^(26 56 23 00-0230)		
26 56 23 00-0232 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	626.84	140.40
26 56 23 00-0233 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	670.14	143.20
26 56 23 00-0234 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	680.20	146.02
26 56 23 00-0235 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	690.24	148.82
26 56 23 00-0236 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	700.29	151.63
26 56 23 00-0237 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	714.78	154.44
26 56 23 00-0238 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	744.48	146.02
26 56 23 00-0239 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	754.52	148.82
26 56 23 00-0240 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	764.57	151.63
26 56 23 00-0241 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	797.90	154.44
26 56 23 00-0242 Pole Mount, Induction Area Fixtures ^(26 56 23 00-0223)		
26 56 23 00-0243 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) ^(26 56 23 00-0242) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 23 00-0244 EA 70 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	706.58	95.47
26 56 23 00-0245 EA 80 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	728.70	101.08
26 56 23 00-0246 EA 100 Watts, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	750.81	106.70
26 56 23 00-0247 Metal Halide Area Fixtures ^(26 56 23)		
26 56 23 00-0248 Pole Mount, Metal Halide Area Fixtures ^(26 56 23 00-0247) Note: Includes pulse start ballast.		
26 56 23 00-0249 EA 150 Watt, Metal Halide Area Fixture, Pole Mount	682.04	138.76
26 56 23 00-0250 EA 175 Watt, Metal Halide Area Fixture, Pole Mount	748.58	152.63
26 56 23 00-0251 EA 250 Watt, Metal Halide Area Fixture, Pole Mount	826.28	166.51
26 56 23 00-0252 EA 400 Watt, Metal Halide Area Fixture, Pole Mount	886.66	194.27
26 56 23 00-0253 High Pressure Sodium Area Fixtures ^(26 56 23)		
26 56 23 00-0254 Pole Mount, High Pressure Sodium Area Fixtures ^(26 56 23 00-0253)		
26 56 23 00-0255 EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount	563.47	111.01
26 56 23 00-0256 EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount	625.96	138.76
26 56 23 00-0257 EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount	690.29	166.51
26 56 23 00-0258 EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount	741.01	194.27

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 23 00-0259	Area Lighting Accessories	(26 56 23)		
26 56 23 00-0260	Outdoor Motion Sensors	(26 56 23 00-0259)		
26 56 23 00-0261	EA 70" Range, 180 Degree Detection Zone, 8 Amp Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)		85.58	25.97
26 56 23 00-0262	EA 70" Range, 200 Degree Detection Zone, 10 Amp Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000)		91.68	25.97
26 56 23 00-0263	EA 30" Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR)		318.07	25.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add			15.59	
26 56 26	Landscape Lighting	(26 56)		
26 56 26 00-0001	Bollards	(26 56 26)		
Note: Excludes concrete base.				
26 56 26 00-0002	Aluminum Architectural Bollards	(26 56 26 00-0001)		
26 56 26 00-0003	High Pressure Sodium, Aluminum Architectural Bollards	(26 56 26 00-0002)		
26 56 26 00-0004	Square, High Pressure Sodium, Aluminum Architectural Bollards	(26 56 26 00-0003)		
26 56 26 00-0005	EA 24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		866.06	88.20
26 56 26 00-0006	EA 30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		876.42	93.39
26 56 26 00-0007	EA 36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		886.80	98.57
26 56 26 00-0008	EA 42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		830.59	103.76
26 56 26 00-0009	EA 24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		866.06	88.20
26 56 26 00-0010	EA 30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		876.42	93.39
26 56 26 00-0011	EA 36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		886.80	98.57
26 56 26 00-0012	EA 42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		830.59	103.76
26 56 26 00-0013	EA 24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		866.06	88.20
26 56 26 00-0014	EA 30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		876.42	93.39
26 56 26 00-0015	EA 36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		886.80	98.57
26 56 26 00-0016	EA 42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		830.59	103.76
26 56 26 00-0017	EA 24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		866.06	88.20
26 56 26 00-0018	EA 30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		876.42	93.39
26 56 26 00-0019	EA 36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		886.80	98.57
26 56 26 00-0020	EA 42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		830.59	103.76
26 56 26 00-0021	Round, High Pressure Sodium, Aluminum Architectural Bollards	(26 56 26 00-0003)		
26 56 26 00-0022	EA 24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		835.48	88.20
26 56 26 00-0023	EA 30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		845.84	93.39
26 56 26 00-0024	EA 36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		856.22	98.57
26 56 26 00-0025	EA 42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard		799.73	103.76
26 56 26 00-0026	EA 24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		835.48	88.20
26 56 26 00-0027	EA 30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		845.84	93.39
26 56 26 00-0028	EA 36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		856.22	98.57
26 56 26 00-0029	EA 42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard		799.73	103.76
26 56 26 00-0030	EA 24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		835.48	88.20
26 56 26 00-0031	EA 30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		845.84	93.39
26 56 26 00-0032	EA 36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		856.22	98.57
26 56 26 00-0033	EA 42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard		799.73	103.76
26 56 26 00-0034	EA 24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		835.48	88.20
26 56 26 00-0035	EA 30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		845.84	93.39
26 56 26 00-0036	EA 36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		856.22	98.57
26 56 26 00-0037	EA 42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard		799.73	103.76
26 56 26 00-0038	Metal Halide, Aluminum Architectural Bollards	(26 56 26 00-0002)		
26 56 26 00-0039	Square, Metal Halide, Aluminum Architectural Bollards	(26 56 26 00-0038)		
26 56 26 00-0040	EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard		905.77	88.20
26 56 26 00-0041	EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard		916.13	93.39
26 56 26 00-0042	EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard		926.51	98.57
26 56 26 00-0043	EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard		870.02	103.76
26 56 26 00-0044	EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard		905.77	88.20
26 56 26 00-0045	EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard		916.13	93.39
26 56 26 00-0046	EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard		926.51	98.57
26 56 26 00-0047	EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard		870.02	103.76
26 56 26 00-0048	EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard		905.77	88.20
26 56 26 00-0049	EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard		916.13	93.39
26 56 26 00-0050	EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard		926.51	98.57
26 56 26 00-0051	EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard		903.24	103.76
26 56 26 00-0052	Round, Metal Halide, Aluminum Architectural Bollards	(26 56 26 00-0038)		
26 56 26 00-0053	EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard		874.91	88.20
26 56 26 00-0054	EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard		885.27	93.39
26 56 26 00-0055	EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard		895.65	98.57



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 26 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	839.15	103.76
26 56 26 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	874.91	88.20
26 56 26 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	885.27	93.39
26 56 26 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	895.65	98.57
26 56 26 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	839.15	103.76
26 56 26 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	874.91	88.20
26 56 26 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	885.27	93.39
26 56 26 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	895.65	98.57
26 56 26 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	839.15	103.76
26 56 26 00-0065 Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0002)		
26 56 26 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0065)		
26 56 26 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	862.58	88.20
26 56 26 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	872.94	93.39
26 56 26 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	883.32	98.57
26 56 26 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	827.73	103.76
26 56 26 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	862.58	88.20
26 56 26 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	872.94	93.39
26 56 26 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	883.32	98.57
26 56 26 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	827.73	103.76
26 56 26 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	862.58	88.20
26 56 26 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	872.94	93.39
26 56 26 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	883.32	98.57
26 56 26 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	827.73	103.76
26 56 26 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 56 26 00-0065)		
26 56 26 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	832.39	88.20
26 56 26 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	842.75	93.39
26 56 26 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	853.13	98.57
26 56 26 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	798.12	103.76
26 56 26 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	832.39	88.20
26 56 26 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	842.75	93.39
26 56 26 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	853.13	98.57
26 56 26 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	798.12	103.76
26 56 26 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	832.39	88.20
26 56 26 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	842.75	93.39
26 56 26 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	853.13	98.57
26 56 26 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	798.12	103.76
26 56 26 00-0092 LED, Aluminum Architectural Bollards (26 56 26 00-0002)		
26 56 26 00-0093 Square, LED, Aluminum Architectural Bollards (26 56 26 00-0092)		
26 56 26 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,019.32	88.20
26 56 26 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,029.68	93.39
26 56 26 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	1,040.06	98.57
26 56 26 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, LED, Aluminum Architectural Bollard	985.31	103.76
26 56 26 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,229.47	88.20
26 56 26 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,239.83	93.39
26 56 26 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,250.21	98.57
26 56 26 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, LED, Aluminum Architectural Bollard	1,194.41	103.76
26 56 26 00-0102 Round, LED, Aluminum Architectural Bollards (26 56 26 00-0092)		
26 56 26 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	987.97	88.20
26 56 26 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	998.33	93.39
26 56 26 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	1,008.71	98.57
26 56 26 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, LED, Aluminum Architectural Bollard	952.91	103.76
26 56 26 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,198.12	88.20
26 56 26 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,208.48	93.39
26 56 26 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,218.86	98.57
26 56 26 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, LED, Aluminum Architectural Bollard	1,163.44	103.76
26 56 26 00-0111 Reinforced Concrete Bollards (26 56 26 00-0001)		
26 56 26 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard	991.95	259.39
26 56 26 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard	1,646.47	345.83
26 56 26 00-0114 Low Voltage (26 56 26)		
26 56 26 00-0115 EA Low Voltage Recessed Uplight	724.39	188.84
26 56 26 00-0116 EA Low Voltage Walkway	520.11	103.76
26 56 26 00-0117 EA Low Voltage Malibu - 5 Light Set	504.39	138.52
26 56 26 00-0118 EA Low Voltage Mushroom 24" Pier	440.54	103.76
26 56 26 00-0119 Recessed, Adjustable (26 56 26)		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 26 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	860.57	166.02
26 56 26 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	945.82	166.02
26 56 26 00-0122 Recessed, Uplight (26 56 26)		
26 56 26 00-0123 EA 50 Watt Incandescent Recessed Uplight.....	763.95	166.02
26 56 26 00-0124 EA 150 Watt Incandescent Recessed Uplight.....	781.00	166.02
26 56 26 00-0125 EA 300 Watt Incandescent Recessed Uplight.....	832.15	166.02
26 56 26 00-0126 EA 500 Watt Quartz Recessed Uplight.....	826.46	166.02
26 56 26 00-0127 EA 5 Watt LED Recessed Uplight.....	715.53	166.02
26 56 26 00-0128 EA 15 Watt LED Recessed Uplight.....	774.07	166.02
26 56 26 00-0129 Recessed Wall Light (26 56 26)		
26 56 26 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	389.39	103.76
26 56 26 00-0131 EA 100 Watt Fluorescent Recessed Wall Light.....	372.34	103.76
26 56 26 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	612.38	138.52
26 56 26 00-0133 Step Lights (26 56 26)		
26 56 26 00-0134 EA Incandescent Step Light.....	319.41	83.01
26 56 26 00-0135 EA Fluorescent Step Light.....	376.31	83.01
26 56 26 00-0136 EA 5 Watt LED Step Light.....	386.50	83.01
26 56 26 00-0137 EA 15 Watt LED Step Light.....	448.93	83.01
26 56 26 00-0138 Tree Lights, Surface Adjustable (26 56 26)		
26 56 26 00-0139 EA 50 Watt Incandescent Tree Lights.....	686.26	138.52
26 56 26 00-0140 EA 100 Watt Incandescent Tree Lights.....	703.31	138.52
26 56 26 00-0141 EA 150 Watt Incandescent Tree Lights.....	869.71	207.52
26 56 26 00-0142 Underwater Lights (26 56 26)		
26 56 26 00-0143 EA 150 Watt, 120 Volt Underwater Lights.....	575.64	69.00
26 56 26 00-0144 EA 300 Watt, 120 Volt Underwater Lights.....	643.84	69.00
26 56 26 00-0145 EA 1,000 Watt, 120 Volt Underwater Lights.....	1,599.98	103.76
26 56 26 00-0146 EA 50 Watt, 12 Volt Underwater Lights.....	604.06	69.00
26 56 26 00-0147 EA 300 Watt, 12 Volt Underwater Lights.....	683.63	69.00
26 56 26 00-0148 EA Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	1,760.21	155.64
26 56 33 Walkway Lighting (26 56)		
26 56 33 00-0001 Incandescent Walkway (26 56 33)		
26 56 33 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	398.13	96.49
26 56 33 00-0003 Metal Halide Walkway (26 56 33)		
26 56 33 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture.....	611.18	151.69
26 56 33 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture.....	648.99	157.19
26 56 33 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture.....	703.11	163.21
26 56 33 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture.....	752.06	176.40
26 56 33 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture.....	667.22	163.21
26 56 33 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....	680.22	151.69
26 56 33 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture.....	692.07	157.19
26 56 33 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture.....	557.11	108.11
26 56 33 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture.....	593.00	108.11
26 56 33 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	628.89	108.11
26 56 33 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	710.13	121.71
26 56 33 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	535.25	97.11
26 56 33 00-0016 High Pressure Sodium Walkway (26 56 33)		
26 56 33 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....	543.85	151.69
26 56 33 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture.....	575.80	157.19
26 56 33 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture.....	620.68	163.21
26 56 33 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture.....	664.75	176.40
26 56 33 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture.....	592.64	163.21
26 56 33 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture.....	597.79	151.69
26 56 33 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture.....	609.46	157.19
26 56 33 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture.....	482.53	108.11
26 56 33 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture.....	510.57	108.11
26 56 33 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture.....	538.61	108.11
26 56 33 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture.....	608.07	121.71
26 56 33 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	460.67	97.11
26 56 33 00-0029 Walkway, Adjustable (26 56 33)		
26 56 33 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture.....	578.07	138.52



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 33 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture	595.77	138.52
26 56 33 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture	1,040.67	207.52
26 56 33 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	490.83	103.76
26 56 33 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	514.44	103.76
26 56 33 00-0035 LED Walkway (26 56 33)		
26 56 33 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 56 33 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 33 00-0037 EA 13" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	596.90	79.68
For Multi-Level Drive Currents, Add	147.00	
26 56 33 00-0038 EA 18" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	614.75	79.68
For Multi-Level Drive Currents, Add	147.00	
26 56 33 00-0039 EA 36" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	646.25	79.68
For Multi-Level Drive Currents, Add	147.00	
26 56 33 00-0040 EA 42" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	670.40	79.68
For Multi-Level Drive Currents, Add	147.00	
26 56 33 00-0041 EA 96" Height, 1,248 Lumens, 22 System Watts, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG).....	776.59	102.45
For Multi-Level Drive Currents, Add	147.00	
26 56 36 Flood Lighting (26 56)		
26 56 36 00-0001 General Electric Powerflood® Flood Lights (26 56 36)		
26 56 36 00-0002 MPF (Small Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 56 36 00-0003 High Pressure Sodium MPF Series GE Flood Lights (26 56 36 00-0002)		
26 56 36 00-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light	253.17	83.25
26 56 36 00-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light	254.90	83.25
26 56 36 00-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light	257.79	83.25
26 56 36 00-0007 Metal Halide MPF Series GE Flood Lights (26 56 36 00-0002)		
26 56 36 00-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light	321.91	83.25
26 56 36 00-0009 P-154 (Small Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0010 High Pressure Sodium P-154 Series GE Flood Lights (26 56 36 00-0009)		
26 56 36 00-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light	471.00	111.01
26 56 36 00-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light	473.31	111.01
26 56 36 00-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light	477.35	111.01
26 56 36 00-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light	522.99	111.01
26 56 36 00-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light	536.28	111.01
26 56 36 00-0016 Metal Halide P-154 Series GE Flood Lights (26 56 36 00-0009)		
26 56 36 00-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light	466.95	111.01
26 56 36 00-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light	487.17	111.01
26 56 36 00-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light	497.57	111.01
26 56 36 00-0020 PF-154 (Medium Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0021 High Pressure Sodium PF-154 Series GE Flood Lights (26 56 36 00-0020)		
26 56 36 00-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light	488.94	124.89
26 56 36 00-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light	491.83	124.89
26 56 36 00-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light	496.45	124.89
26 56 36 00-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light	541.51	124.89
26 56 36 00-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light	554.22	124.89
26 56 36 00-0027 Metal Halide PF-154 GE Flood Lights (26 56 36 00-0020)		
26 56 36 00-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light	485.47	124.89
26 56 36 00-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light	505.11	124.89
26 56 36 00-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light	515.51	124.89
26 56 36 00-0031 PF-400 (Medium Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0032 High Pressure Sodium PF-400 Series GE Flood Lights (26 56 36 00-0031)		
26 56 36 00-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	625.27	124.89
26 56 36 00-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	665.71	124.89
26 56 36 00-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	662.83	124.89
26 56 36 00-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light.....	677.27	124.89
26 56 36 00-0037 Metal Halide PF-400 GE Flood Lights (26 56 36 00-0031)		
26 56 36 00-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light.....	640.30	124.89
26 56 36 00-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light.....	652.43	124.89
26 56 36 00-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light.....	665.14	124.89
26 56 36 00-0041 PF-1000 (Large Size) Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0042 High Pressure Sodium PF-1000 Series GE Flood Lights (26 56 36 00-0041)		
26 56 36 00-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	825.76	138.76
26 56 36 00-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light.....	825.76	138.76
26 56 36 00-0045 Metal Halide PF-1000 Series GE Flood Lights (26 56 36 00-0041)		
26 56 36 00-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light.....	792.25	138.76
26 56 36 00-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 56 36 00-0001)		
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 56 36 00-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights (26 56 36 00-0047)		
26 56 36 00-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	680.73	124.89
26 56 36 00-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light.....	691.71	124.89
26 56 36 00-0051 Metal Halide HLU/VLU Series GE Flood Lights (26 56 36 00-0047)		
26 56 36 00-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light.....	687.09	124.89
26 56 36 00-0053 Accessories For Powerflood GE Flood Lights (26 56 36 00-0001)		
26 56 36 00-0054 EA Wireguard For Powerflood GE Flood Light.....	121.95	27.75
26 56 36 00-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	79.20	27.75
26 56 36 00-0056 EA Top Visor For Powerflood Flood Light.....	105.77	27.75
26 56 36 00-0057 EA Top And Two Side Visors For Powerflood GE Flood Light.....	85.55	27.75
26 56 36 00-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	225.44	83.25
26 56 36 00-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light.....	91.91	27.75
26 56 36 00-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light.....	182.11	83.25
26 56 36 00-0061 EA Steel Angle Bracket For Powerflood GE Flood Light.....	187.31	83.25
26 56 36 00-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light.....	74.00	27.75
26 56 36 00-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light.....	72.26	27.75
26 56 36 00-0064 Lithonia Contour Series Flood Lights (26 56 36)		
26 56 36 00-0065 TFM (Small Size) Series Lithonia Flood Lights (26 56 36 00-0064)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 56 36 00-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 56 36 00-0065)		
26 56 36 00-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	440.24	111.01
26 56 36 00-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	473.60	111.01
26 56 36 00-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	506.26	111.01
26 56 36 00-0070 Metal Halide TFM Series Lithonia Flood Lights (26 56 36 00-0065)		
26 56 36 00-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	547.02	111.01
26 56 36 00-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	538.99	111.01
26 56 36 00-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	526.05	111.01
26 56 36 00-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	525.09	111.01
26 56 36 00-0075 Compact Fluorescent TFM Series Lithonia Flood Lights (26 56 36 00-0065)		
26 56 36 00-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	543.70	111.01



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 56 36 00-0077	TFL (Medium Size) Series Lithonia Flood Lights (26 56 36 00-0064) Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.				
26 56 36 00-0078	High Pressure Sodium TFL Series Lithonia Flood Lights (26 56 36 00-0077)				
26 56 36 00-0079	EA	250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	641.82		124.89
26 56 36 00-0080	EA	400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	652.95		124.89
26 56 36 00-0081	Metal Halide TFL Series Lithonia Flood Lights (26 56 36 00-0077)				
26 56 36 00-0082	EA	175 Watt Metal Halide TFL Series Lithonia Flood Light.....	616.82		124.89
26 56 36 00-0083	EA	250 Watt Metal Halide TFL Series Lithonia Flood Light.....	616.82		124.89
26 56 36 00-0084	EA	400 Watt Metal Halide TFL Series Lithonia Flood Light.....	634.26		124.89
26 56 36 00-0085	TFR (Low Profile) Series Lithonia Flood Lights (26 56 36 00-0064) Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.				
26 56 36 00-0086	High Pressure Sodium TFR Lithonia Flood Lights (26 56 36 00-0085)				
26 56 36 00-0087	EA	150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	608.51		111.01
26 56 36 00-0088	EA	250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	625.16		111.01
26 56 36 00-0089	EA	400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	639.07		111.01
26 56 36 00-0090	Metal Halide TFR Lithonia Flood Lights (26 56 36 00-0085)				
26 56 36 00-0091	EA	250 Watt Metal Halide TFR Series Lithonia Flood Light	602.95		111.01
26 56 36 00-0092	EA	400 Watt Metal Halide TFR Series Lithonia Flood Light	619.62		111.01
26 56 36 00-0093	TFA (Large Size) Series Lithonia Flood Lights (26 56 36 00-0064) Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.				
26 56 36 00-0094	High Pressure Sodium TFA Series Lithonia Flood Lights (26 56 36 00-0093)				
26 56 36 00-0095	EA	1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,125.44		138.76
26 56 36 00-0096	Metal Halide TFA Series Lithonia Flood Lights (26 56 36 00-0093)				
26 56 36 00-0097	EA	400 Watt Metal Halide TFA Series Lithonia Flood Light	889.13		138.76
26 56 36 00-0098	EA	1,000 Watt Metal Halide TFA Series Lithonia Flood Light	972.53		138.76
26 56 36 00-0099	Accessories For Contour Series Lithonia Flood Lights (26 56 36 00-0064)				
26 56 36 00-0100	EA	Wireguard For Contour Series Lithonia Flood Light.....	107.93		27.75
26 56 36 00-0101	EA	Vandal Guard For Contour Series Lithonia Flood Light	189.79		27.75
26 56 36 00-0102	EA	Upper Visor For Contour Series Lithonia Flood Light	92.48		27.75
26 56 36 00-0103	EA	Full Visor For Contour Series Lithonia Flood Light	117.50		27.75
26 56 36 00-0104	EA	Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light	277.69		83.25
26 56 36 00-0105	EA	Radius Wall Bracket For Contour Series Lithonia Flood Light	233.43		83.25
26 56 36 00-0106	EA	Steel Angle Bracket For Contour Series Lithonia Flood Light	233.43		83.25
26 56 36 00-0107	EA	U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe	251.09		83.25
26 56 36 00-0108	EA	Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light	104.13		27.75
26 56 36 00-0109	EA	120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light	87.17		27.75
26 56 36 00-0110	Ruud Flood Lights (26 56 36)				
26 56 36 00-0111	NS (Micro) Series Ruud Flood Lights (26 56 36 00-0110) Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.				
26 56 36 00-0112	High Pressure Sodium NS Series Ruud Flood Lights (26 56 36 00-0111)				
26 56 36 00-0113	EA	35 Watt High Pressure Sodium NS Series Ruud Flood Light	297.07		83.25
26 56 36 00-0114	EA	50 Watt High Pressure Sodium NS Series Ruud Flood Light	297.07		83.25
26 56 36 00-0115	EA	70 Watt High Pressure Sodium NS Series Ruud Flood Light	297.07		83.25
26 56 36 00-0116	EA	100 Watt High Pressure Sodium NS Series Ruud Flood Light	297.07		83.25
26 56 36 00-0117	EA	150 Watt High Pressure Sodium NS Series Ruud Flood Light	297.07		83.25
26 56 36 00-0118	Metal Halide NS Series Ruud Flood Lights (26 56 36 00-0111)				
26 56 36 00-0119	EA	50 Watt Metal Halide NS Series Ruud Flood Light	329.42		83.25
26 56 36 00-0120	EA	70 Watt Metal Halide NS Series Ruud Flood Light	329.42		83.25
26 56 36 00-0121	EA	100 Watt Metal Halide NS Series Ruud Flood Light	329.42		83.25
26 56 36 00-0122	Compact Fluorescent NS Series Ruud Flood Lights (26 56 36 00-0111)				
26 56 36 00-0123	EA	13 Watt Compact Fluorescent NS Series Ruud Flood Light	263.56		83.25
26 56 36 00-0124	EA	26 Watt Compact Fluorescent NS Series Ruud Flood Light	271.65		83.25

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0125	EA	32 Watt Compact Fluorescent NS Series Ruud Flood Light	273.96	83.25	
26 56 36 00-0126	EA	42 Watt Compact Fluorescent NS Series Ruud Flood Light	276.27	83.25	
26 56 36 00-0127		NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 56 36 00-0110)			
		Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.			
26 56 36 00-0128		High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 56 36 00-0127)			
26 56 36 00-0129	EA	150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	455.43	124.89	
26 56 36 00-0130	EA	250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	476.23	124.89	
26 56 36 00-0131	EA	400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	487.78	124.89	
26 56 36 00-0132		Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 56 36 00-0127)			
26 56 36 00-0133	EA	175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	450.81	124.89	
26 56 36 00-0134	EA	250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	453.12	124.89	
26 56 36 00-0135	EA	400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	460.05	124.89	
26 56 36 00-0136		Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 56 36 00-0127)			
26 56 36 00-0137	EA	70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light	442.72	124.89	
26 56 36 00-0138		FS (Square) Series Ruud Flood Lights (26 56 36 00-0110)			
		Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.			
26 56 36 00-0139		High Pressure Sodium FS Series Ruud Flood Lights (26 56 36 00-0138)			
26 56 36 00-0140	EA	250 Watt High Pressure Sodium FS Series Ruud Flood Light	516.67	124.89	
26 56 36 00-0141	EA	400 Watt High Pressure Sodium FS Series Ruud Flood Light	518.98	124.89	
26 56 36 00-0142	EA	1,000 Watt High Pressure Sodium FS Series Ruud Flood Light	826.34	138.76	
26 56 36 00-0143		Metal Halide FS Series Ruud Flood Lights (26 56 36 00-0138)			
26 56 36 00-0144	EA	175 Watt Metal Halide FS Series Ruud Flood Light	516.67	124.89	
26 56 36 00-0145	EA	250 Watt Metal Halide FS Series Ruud Flood Light	518.98	124.89	
26 56 36 00-0146	EA	400 Watt Metal Halide FS Series Ruud Flood Light	525.91	124.89	
26 56 36 00-0147	EA	1,000 Watt Metal Halide FS Series Ruud Flood Light	750.08	138.76	
26 56 36 00-0148		MFS (Mini Square) Series Ruud Flood Lights (26 56 36 00-0110)			
		Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.			
26 56 36 00-0149		High Pressure Sodium MFS Series Ruud Flood Lights (26 56 36 00-0148)			
26 56 36 00-0150	EA	35 Watt High Pressure Sodium MFS Series Ruud Flood Light	414.96	111.01	
26 56 36 00-0151	EA	50 Watt High Pressure Sodium MFS Series Ruud Flood Light	439.23	111.01	
26 56 36 00-0152	EA	70 Watt High Pressure Sodium MFS Series Ruud Flood Light	439.23	111.01	
26 56 36 00-0153	EA	100 Watt High Pressure Sodium MFS Series Ruud Flood Light	439.23	111.01	
26 56 36 00-0154	EA	150 Watt High Pressure Sodium MFS Series Ruud Flood Light	439.23	111.01	
26 56 36 00-0155		Metal Halide MFS Series Ruud Flood Lights (26 56 36 00-0148)			
26 56 36 00-0156	EA	50 Watt Metal Halide MFS Series Ruud Flood Light	447.31	111.01	
26 56 36 00-0157	EA	70 Watt Metal Halide MFS Series Ruud Flood Light	447.31	111.01	
26 56 36 00-0158	EA	100 Watt Metal Halide MFS Series Ruud Flood Light	447.31	111.01	
26 56 36 00-0159	EA	175 Watt Metal Halide MFS Series Ruud Flood Light	434.60	111.01	
26 56 36 00-0160		MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 56 36 00-0110)			
		Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.			
26 56 36 00-0161		High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 56 36 00-0160)			
26 56 36 00-0162	EA	35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	443.85	111.01	
26 56 36 00-0163	EA	50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	468.11	111.01	
26 56 36 00-0164	EA	70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	468.11	111.01	
26 56 36 00-0165	EA	100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	468.11	111.01	
26 56 36 00-0166	EA	150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	468.11	111.01	
26 56 36 00-0167		Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 56 36 00-0160)			
26 56 36 00-0168	EA	50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	476.20	111.01	
26 56 36 00-0169	EA	70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	476.20	111.01	
26 56 36 00-0170	EA	100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	476.20	111.01	
26 56 36 00-0171	EA	175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	463.49	111.01	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0172 CF (Cutoff Square) Series Ruud Flood Lights (26 56 36 00-0110) Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 56 36 00-0173 High Pressure Sodium CF Series Ruud Flood Lights (26 56 36 00-0172)		
26 56 36 00-0174 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	570.97	124.89
26 56 36 00-0175 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	582.53	124.89
26 56 36 00-0176 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	855.22	138.76
26 56 36 00-0177 Metal Halide CF Series Ruud Flood Lights (26 56 36 00-0172)		
26 56 36 00-0178 EA 175 Watt Metal Halide CF Series Ruud Flood Light	545.55	124.89
26 56 36 00-0179 EA 250 Watt Metal Halide CF Series Ruud Flood Light	547.86	124.89
26 56 36 00-0180 EA 400 Watt Metal Halide CF Series Ruud Flood Light	554.80	124.89
26 56 36 00-0181 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light	778.96	138.76
26 56 36 00-0182 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 56 36 00-0110) Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 56 36 00-0183 High Pressure Sodium CN Series Ruud Flood Lights (26 56 36 00-0182)		
26 56 36 00-0184 EA 400 High Pressure Sodium CN Series Ruud Flood Light	721.19	138.76
26 56 36 00-0185 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	841.36	138.76
26 56 36 00-0186 Metal Halide CN Series Ruud Flood Lights (26 56 36 00-0182)		
26 56 36 00-0187 EA 400 Watt Metal Halide CN Series Ruud Flood Light	693.46	138.76
26 56 36 00-0188 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....	765.10	138.76
26 56 36 00-0189 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 56 36 00-0110) Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 56 36 00-0190 High Pressure Sodium PM/PN Series Ruud Flood Lights (26 56 36 00-0189)		
26 56 36 00-0191 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	587.15	124.89
26 56 36 00-0192 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	598.70	124.89
26 56 36 00-0193 Metal Halide PM/PN Series Ruud Flood Lights (26 56 36 00-0189)		
26 56 36 00-0194 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	561.73	124.89
26 56 36 00-0195 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	564.04	124.89
26 56 36 00-0196 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	570.97	124.89
26 56 36 00-0197 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	795.14	138.76
26 56 36 00-0198 Accessories For Ruud Flood Lighting (26 56 36 00-0110)		
26 56 36 00-0199 EA Wireguard For Ruud Flood Light.....	72.84	27.75
26 56 36 00-0200 EA Deep Baffle (Full Visor) For Ruud Flood Light	104.04	27.75
26 56 36 00-0201 EA Glare Guard (Upper Visor) For Ruud Flood Light	80.93	27.75
26 56 36 00-0202 EA Vandal Shield For Ruud Flood Light	92.48	27.75
26 56 36 00-0203 EA Pipe Mounting Bracket For Ruud Flood Light	205.79	83.25
26 56 36 00-0204 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	65.91	27.75
26 56 36 00-0205 Lumark Flood Lights (26 56 36)		
26 56 36 00-0206 QZ Wedge Series Quartz Lumark Flood Lights (26 56 36 00-0205) Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 56 36 00-0207 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	190.14	83.25
26 56 36 00-0208 LQL Series Quartz Lumark Flood Lights (26 56 36 00-0205) Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 56 36 00-0209 EA 1,500 Watt LQL Series Quartz Lumark Flood Light	224.22	83.25
26 56 36 00-0210 Kim Lighting (26 56 36)		
26 56 36 00-0211 MicroFlood® Series Kim Lighting Flood Lights (26 56 36 00-0210) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 56 36 00-0212 LED MicroFlood® Series Kim Lighting Flood Lights (26 56 36 00-0211)		
26 56 36 00-0213 EA 5 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	300.17	36.36
26 56 36 00-0214 EA 15 Watt LED MicroFlood® Series Kim Lighting Flood Light.....	364.28	36.36
26 56 36 00-0215 Scarab® Series Kim Lighting Flood Lights (26 56 36 00-0210) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 56 36 00-0216 LED Scarab® Series Kim Lighting Accent Flood Lights (26 56 36 00-0215) Note: Spot or narrow style accent flood lights.		

26	Electrical
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0217	EA	6 Watt LED Scarab® Series Kim Lighting Accent Flood Light.....	443.13	36.36
26 56 36 00-0218		CREE® BetaLED® Flood Lights (26 56 36)		
26 56 36 00-0219		Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 56 36 00-0218)		
		Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0220	EA	40 LEDs, 47 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	777.57	101.08
26 56 36 00-0221	EA	60 LEDs, 68 System Watts, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	849.70	106.70
26 56 36 00-0222		Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) (26 56 36 00-0218)		
		Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0223	EA	20 LEDs, 26 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	679.19	95.47
		For 347-480 Volt, Add	53.89	
26 56 36 00-0224	EA	40 LEDs, 47 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	844.77	101.08
		For 347-480 Volt, Add	53.89	
26 56 36 00-0225	EA	60 LEDs, 68 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,010.35	106.70
		For 347-480 Volt, Add	53.89	
26 56 36 00-0226	EA	80 LEDs, 90 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,237.89	112.32
		For 347-480 Volt, Add	53.89	
26 56 36 00-0227	EA	100 LEDs, 111 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,403.47	117.93
		For 347-480 Volt, Add	53.89	
26 56 36 00-0228	EA	120 LEDs, 132 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,569.05	123.55
		For 347-480 Volt, Add	53.89	
26 56 36 00-0229	EA	140 LEDs, 157 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,783.98	129.17
		For 347-480 Volt, Add	53.89	
26 56 36 00-0230	EA	160 LEDs, 179 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,949.56	134.78
		For 347-480 Volt, Add	53.89	
26 56 36 00-0231		Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) (26 56 36 00-0218)		
		Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0232	EA	120 LEDs, 267 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	1,507.10	123.55
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For Bird Spikes, Add	31.87	
		For 5,000K Color Temperature, Add	30.96	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For 480 Volt, Add	55.73	
		For Multi-Level, Add	80.49	
		For 1,000mA Driver, Add	104.02	
26 56 36 00-0233	EA	240 LEDs, 533 System Watts, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,525.49	151.63
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For 5,000K Color Temperature, Add	30.96	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For Bird Spikes, Add	46.38	
		For Multi-Level, Add	80.49	
		For 1,000mA Driver, Add	104.02	
		For 480 Volt, Add	111.45	
26 56 36 00-0234		Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) (26 56 36 00-0218)		
		Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 36 00-0235	EA	112 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL) (DLC Certified).....	910.26	123.55
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For Front Facing Optics, Back Light Shield, Add	25.36	
		For Rotated Optics, Back Light Shield, Add	25.36	
		For Field Adjustable Output, Add	18.58	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For Multi-Level, Add	80.49	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 36 00-0236	EA	168 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL) (DLC Certified).....	968.78	123.55
		Note: Type III, IV or V medium optics only.		
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For Front Facing Optics, Back Light Shield, Add	25.36	
		For Rotated Optics, Back Light Shield, Add	25.36	
		For Field Adjustable Output, Add	18.58	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For Type II Medium Or Type V Short Optics, Add	74.37	
		For Multi-Level, Add	80.49	
26 56 36 00-0237	EA	223 System Watts, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL) (DLC Certified).....	1,239.48	151.63
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	12.38	
		For Field Adjustable Output, Add	18.58	
		For Front Facing Optics, Back Light Shield, Add	30.76	
		For Rotated Optics, Back Light Shield, Add	30.76	
		For Fuse, Add	37.15	
		For 0 To 10 Volt Dimming, Add	37.15	
		For Multi-Level, Add	80.49	
26 56 36 00-0238		PlanLED Flood Lights (26 56 36)		
26 56 36 00-0239		Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) (26 56 36 00-0238)		
26 56 36 00-0240	EA	6,250 Lumens, 50 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	406.92	101.08
26 56 36 00-0241	EA	9,375 Lumens, 75 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	475.90	106.70
26 56 36 00-0242	EA	12,500 Lumens, 100 System Watts, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100)	543.15	115.13
26 56 36 00-0243		Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 56 36 00-0238)		
26 56 36 00-0244	EA	21,000 Lumens, 200 System Watts, LED Sports Flood Light (PlanLED SUFA SF200).....	1,095.02	224.64
		For 0 To 10 Volt Dimming, Add	49.73	
26 56 36 00-0245	EA	42,000 Lumens, 400 System Watts, LED Sports Flood Light (PlanLED SUFA SF400).....	1,604.27	224.64
		For 0 To 10 Volt Dimming, Add	49.73	
26 56 36 00-0246	EA	84,000 Lumens, 800 System Watts, LED Sports Flood Light (PlanLED SUFA SF800).....	2,700.47	224.64
		For 0 To 10 Volt Dimming, Add	49.73	
26 56 36 00-0247		Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 56 36 00-0238)		
26 56 36 00-0248	EA	26,000 Lumens, 200 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200).....	929.38	146.02
		For 0 To 10 Volt Dimming, Add	49.73	
		For 347-480 Volt, Add	-10.35	
26 56 36 00-0249	EA	39,000 Lumens, 300 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300).....	1,163.21	151.63
		For 0 To 10 Volt Dimming, Add	49.73	
		For 347-480 Volt, Add	65.27	
26 56 36 00-0250	EA	52,000 Lumens, 400 System Watts, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400).....	1,456.89	157.24
		For 0 To 10 Volt Dimming, Add	49.73	
		For 347-480 Volt, Add	57.86	
26 56 39		Hazardous Location Flood Lights (26 56)		
		Note: For general to heavy industrial applications in marine and corrosive environments. Class 1 Division 2.		
26 56 39 00-0001		Lithonia Hazardous Location Flood Lights (26 56 39)		
26 56 39 00-0002		HFR (Horizontally Oriented Mogul Base) Series Hazardous Location Flood Lights (26 56 39 00-0001)		
		Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 56 39 00-0003		High Pressure Sodium HFR Series Hazardous Location Flood Lights (26 56 39 00-0002)		
26 56 39 00-0004	EA	150 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	603.65	111.01
26 56 39 00-0005	EA	250 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	639.47	111.01
26 56 39 00-0006	EA	400 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	604.81	111.01
26 56 39 00-0007		Metal Halide HFR Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0002)		
26 56 39 00-0008	EA	250 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	635.64	111.01
26 56 39 00-0009	EA	400 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	618.67	111.01
26 56 39 00-0010		HFM (Medium Base) Series Hazardous Location Flood Lights (26 56 39 00-0001)		
		Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 56 39 00-0011		High Pressure Sodium HFM Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0010)		
26 56 39 00-0012	EA	100 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	579.03	111.01

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 39 00-0013	EA	150 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	600.40	111.01
26 56 39 00-0014		Metal Halide HFM Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0010)		
26 56 39 00-0015	EA	175 Watt Metal Halide HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	521.26	111.01
26 56 39 00-0016		HFA (Large) Series Hazardous Location Flood Lights (26 56 39 00-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 56 39 00-0017		High Pressure Sodium HFA Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0016)		
26 56 39 00-0018	EA	250 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	805.54	138.76
26 56 39 00-0019	EA	400 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	815.94	138.76
26 56 39 00-0020		Metal Halide HFA Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0016)		
26 56 39 00-0021	EA	250 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	802.07	138.76
26 56 39 00-0022	EA	400 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	815.94	138.76
26 56 39 00-0023		HFL (Medium) Series Hazardous Location Flood Lights (26 56 39 00-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 56 39 00-0024		High Pressure Sodium HFL Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0023)		
26 56 39 00-0025	EA	400 Watt High Pressure Sodium HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	613.72	124.89
26 56 39 00-0026		Metal Halide HFL Series Lithonia Hazardous Location Flood Lights (26 56 39 00-0023)		
26 56 39 00-0027	EA	400 Watt Metal Halide HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	654.16	124.89
26 56 39 00-0028		Accessories For Lithonia Hazardous Location Flood Lights (26 56 39 00-0001) See CSI section 26 56 36 00-0099 for accessories.		
26 56 43		High Performance Flood Lights (26 56)		
		Note: For airport aprons and parking areas.		
26 56 43 00-0001		Lithonia High Performance Flood Lights (26 56 43)		
26 56 43 00-0002		170S Series Lithonia High Performance Flood Lights (26 56 43 00-0001) Note: Die-cast aluminum housing welded seams, stainless steel hardware, corrosion resistant polyester powder finish, and thermal and shock resistant flat lens.		
26 56 43 00-0003		High Pressure Sodium 170S Series Lithonia High Performance Flood Lights (26 56 43 00-0002)		
26 56 43 00-0004	EA	250 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	1,337.07	166.51
26 56 43 00-0005	EA	400 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	1,431.82	166.51
26 56 43 00-0006	EA	750 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	1,436.44	166.51
26 56 43 00-0007	EA	1,000 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	1,580.86	166.51
26 56 43 00-0008		Metal Halide 170S Series Lithonia High Performance Flood Lights (26 56 43 00-0002)		
26 56 43 00-0009	EA	320 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	1,520.78	166.51
26 56 43 00-0010	EA	350 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	1,456.71	166.51
26 56 43 00-0011	EA	400 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	1,396.00	166.51
26 56 43 00-0012	EA	1,000 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	1,456.08	166.51
26 56 43 00-0013		Accessories For Lithonia High Performance Flood Lights (26 56 43 00-0002) See CSI section 26 56 36 00-0099 for accessories.		
26 56 68		Athletic Field Lighting (26 56)		
26 56 68 00-0001		Sports Lighting System (26 56 68) Note: Musco.		
26 56 68 00-0002		Round Steel Tapered Poles (26 56 68 00-0001) Note: With Internal wiring harness.		
26 56 68 00-0003	EA	20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	2,452.31	532.84
26 56 68 00-0004	EA	25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	2,952.73	643.85
26 56 68 00-0005	EA	30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,309.81	699.34
26 56 68 00-0006	EA	35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	3,593.44	727.10
26 56 68 00-0007	EA	40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,399.72	754.85
26 56 68 00-0008	EA	45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,087.24	921.36
26 56 68 00-0009	EA	50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,457.80	976.86
26 56 68 00-0010	EA	55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,200.08	1,110.08
26 56 68 00-0011	EA	60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,031.34	1,248.84
26 56 68 00-0012	EA	65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,794.75	1,388.29



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	8,528.05	1,551.62
26 56 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	9,333.10	1,742.17
26 56 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	10,568.62	2,096.05
26 56 68 00-0016 Steel Pole Brackets (26 56 68 00-0001)		
26 56 68 00-0017 EA Two Light Bracket.....	357.29	55.51
26 56 68 00-0018 EA Three Light Bracket.....	451.57	77.71
26 56 68 00-0019 EA Four Light Bracket.....	644.28	94.36
26 56 68 00-0020 EA Five Light Bracket.....	736.64	111.01
26 56 68 00-0021 EA Six Light Bracket.....	891.10	127.66
26 56 68 00-0022 EA Seven Light Bracket.....	1,020.20	144.31
26 56 68 00-0023 EA Eight Light Bracket.....	1,165.21	166.51
26 56 68 00-0024 EA Nine Light Bracket.....	1,315.01	183.16
26 56 68 00-0025 Light Fixtures (26 56 68 00-0001)		
26 56 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug	1,396.60	
For 1,500 Watt Metal Halide Lamp, Add	8.59	
26 56 68 00-0027 Electrical Component Enclosure (26 56 68 00-0001)		
Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 56 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted.....	563.38	67.44
26 56 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted.....	847.40	103.76
26 56 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted.....	970.46	129.70
26 56 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted.....	1,250.35	145.26
26 56 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted.....	1,401.98	155.64
26 56 68 00-0033 Accessories (26 56 68 00-0001)		
26 56 68 00-0034 EA Time Delay Kit (Musco®).....	683.00	207.80
26 56 68 00-0035 EA Remote Switch Box Push Button (Musco®)	1,217.86	207.80
26 56 68 00-0036 EA Push Button Strobe Kit (Musco®).....	1,431.80	207.80
26 56 68 00-0037 EA Additional Control-Link Unit (Musco®).....	6,595.25	623.38
26 56 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	742.37	103.76
26 56 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	949.88	207.52

END OF SECTION 26

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Water Utilities	33 01 10	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

33 01 Operation And Maintenance Of Utilities⁽³³⁾

33 01 10 Operation And Maintenance Of Water Utilities^(33 01)

33 01 10 58 Disinfection of Water Utility Piping Systems^(33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	791.07	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	395.53	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization.....	0.29	
		For >250 To 500, Deduct	-0.01	
		For >500 To 1,000, Deduct	-0.03	
		For >1,000 To 2,000, Deduct	-0.04	
		For >2,000 To 5,000, Deduct	-0.06	
		For >5,000, Deduct	-0.07	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization.....	0.45	
		For >250 To 500, Deduct	-0.02	
		For >500 To 1,000, Deduct	-0.05	
		For >1,000 To 2,000, Deduct	-0.07	
		For >2,000 To 5,000, Deduct	-0.09	
		For >5,000, Deduct	-0.11	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization.....	0.59	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.06	
		For >1,000 To 2,000, Deduct	-0.09	
		For >2,000 To 5,000, Deduct	-0.12	
		For >5,000, Deduct	-0.15	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization.....	0.70	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.07	
		For >1,000 To 2,000, Deduct	-0.11	
		For >2,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.18	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization.....	0.92	
		For >250 To 500, Deduct	-0.05	
		For >500 To 1,000, Deduct	-0.09	
		For >1,000 To 2,000, Deduct	-0.14	
		For >2,000 To 5,000, Deduct	-0.18	
		For >5,000, Deduct	-0.23	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization.....	1.04	
		For >250 To 500, Deduct	-0.05	
		For >500 To 1,000, Deduct	-0.10	
		For >1,000 To 2,000, Deduct	-0.16	
		For >2,000 To 5,000, Deduct	-0.21	
		For >5,000, Deduct	-0.26	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization.....	1.19	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.12	
		For >1,000 To 2,000, Deduct	-0.18	
		For >2,000 To 5,000, Deduct	-0.24	
		For >5,000, Deduct	-0.30	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization.....	1.39	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.14	
		For >1,000 To 2,000, Deduct	-0.21	
		For >2,000 To 5,000, Deduct	-0.28	
		For >5,000, Deduct	-0.35	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization.....	1.80	
		For >250 To 500, Deduct	-0.09	
		For >500 To 1,000, Deduct	-0.18	
		For >1,000 To 2,000, Deduct	-0.27	
		For >2,000 To 5,000, Deduct	-0.36	
		For >5,000, Deduct	-0.45	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization.....	2.63	
		For >250 To 500, Deduct	-0.13	
		For >500 To 1,000, Deduct	-0.26	
		For >1,000 To 2,000, Deduct	-0.39	
		For >2,000 To 5,000, Deduct	-0.53	
		For >5,000, Deduct	-0.66	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization.....	3.65	
		For >250 To 500, Deduct	-0.18	
		For >500 To 1,000, Deduct	-0.37	
		For >1,000 To 2,000, Deduct	-0.55	
		For >2,000 To 5,000, Deduct	-0.73	
		For >5,000, Deduct	-0.91	

33 01 30 Operation And Maintenance Of Sewer Utilities^(33 01)

33 01 30 11 Television Inspection Of Pipelines^(33 01 30)

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001	Remote Visual inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)		
33 01 30 11-0002	Video Camera Set-up (33 01 30 11-0001)		
33 01 30 11-0003	EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	681.55	
	Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004	EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,363.11	
	Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005	EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,044.66	
33 01 30 11-0006	EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	340.78	
33 01 30 11-0007	EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	681.55	
33 01 30 11-0008	Video Camera Planning And Analysis Inspection (33 01 30 11-0001)		
	Note: For pipe interior and culverts.		
33 01 30 11-0009	LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase.....	1.73	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.17	
	For >1,000 To 5,000, Deduct	-0.43	
	For >5,000, Deduct	-0.61	
33 01 30 11-0010	LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.31	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.23	
	For >1,000 To 5,000, Deduct	-0.58	
	For >5,000, Deduct	-0.81	
33 01 30 11-0011	LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.88	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.29	
	For >1,000 To 5,000, Deduct	-0.72	
	For >5,000, Deduct	-1.01	
33 01 30 11-0012	LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.84	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.38	
	For >1,000 To 5,000, Deduct	-0.96	
	For >5,000, Deduct	-1.34	
33 01 30 11-0013	LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.40	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.54	
	For >1,000 To 5,000, Deduct	-1.35	
	For >5,000, Deduct	-1.89	
33 01 30 11-0014	LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.20	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.72	
	For >1,000 To 5,000, Deduct	-1.80	
	For >5,000, Deduct	-2.52	
33 01 30 11-0015	LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	10.17	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-1.02	
	For >1,000 To 5,000, Deduct	-2.54	
	For >5,000, Deduct	-3.56	
33 01 30 11-0016	LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	14.39	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-1.44	
	For >1,000 To 5,000, Deduct	-3.60	
	For >5,000, Deduct	-5.04	
33 01 30 11-0017	Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018	LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	2.56	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.26	
	For >1,000 To 5,000, Deduct	-0.64	
	For >5,000, Deduct	-0.90	
33 01 30 11-0019	LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	3.41	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.34	
	For >1,000 To 5,000, Deduct	-0.85	
	For >5,000, Deduct	-1.19	
33 01 30 11-0020	LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	4.26	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.43	
	For >1,000 To 5,000, Deduct	-1.07	
	For >5,000, Deduct	-1.49	
33 01 30 11-0021	LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	5.68	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.57	
	For >1,000 To 5,000, Deduct	-1.42	
	For >5,000, Deduct	-1.99	
33 01 30 11-0022	LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	7.99	
	Note: CCTV inspection of pipe interior.		
	For >500 To 1,000, Deduct	-0.80	
	For >1,000 To 5,000, Deduct	-2.00	
	For >5,000, Deduct	-2.80	



		Utilities	33	
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	10.65 -1.07 -2.66 -3.73	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	15.04 -1.50 -3.76 -5.26	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	21.29 -2.13 -5.32 -7.45	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)				
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	1.83 -0.18 -0.46 -0.64	
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	2.43 -0.24 -0.61 -0.85	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	3.04 -0.30 -0.76 -1.06	
33 01 30 11-0030	LF	>21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	4.06 -0.41 -1.02 -1.42	
33 01 30 11-0031	LF	>30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	5.70 -0.57 -1.43 -2.00	
33 01 30 11-0032	LF	>42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	7.61 -0.76 -1.90 -2.66	
33 01 30 11-0033	LF	>60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	10.74 -1.07 -2.69 -3.76	
33 01 30 11-0034	LF	>72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	15.21 -1.52 -3.80 -5.32	
33 01 30 23 Pipe Bursting (33 01 30)				
33 01 30 23-0001		Pipe Bursting (33 01 30 23) Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control.		
33 01 30 23-0002		Manhole Chipping (33 01 30 23-0001) Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003	EA	6" To 15" Diameter, Manhole Chipping.....	310.14	
33 01 30 23-0004	EA	>15" To 24" Diameter, Manhole Chipping.....	364.12	
33 01 30 23-0005	EA	>24" To 36" Diameter, Manhole Chipping.....	455.11	
33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001) Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0047 for PE piping.				
33 01 30 23-0007		Pipe Bursting Equipment Set-up (33 01 30 23-0006)		
33 01 30 23-0008	EA	Initial Set-up Pipe Bursting Equipment (33 01 30 23-0006)	5,666.54	
33 01 30 23-0009	EA	Re-Set Up/Move Pipe Bursting Equipment.....	2,833.27	
33 01 30 23-0010	EA	Set Up/Move Pipe Bursting Equipment For Laterals.....	1,416.64	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 23-0011	Pneumatic Head Pipe Bursting (33 01 30 23-0006)			
33 01 30 23-0012	LF 4" Diameter, Pneumatic Head Pipe Bursting	17.73		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	0.99		
	For >150 To 200, Add	0.64		
	For >100 To 150, Add	1.29		
	For >75 To 100, Add	1.93		
	For >50 To 75, Add	2.58		
	For >25 To 50, Add	3.86		
	For Up To 25, Add	5.80		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.29		
	For Bursting Ductile Iron Pipe, Add	3.22		
33 01 30 23-0013	LF 6" Diameter, Pneumatic Head Pipe Bursting	20.82		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.23		
	For >150 To 200, Add	0.80		
	For >100 To 150, Add	1.60		
	For >75 To 100, Add	2.40		
	For >50 To 75, Add	3.19		
	For >25 To 50, Add	4.79		
	For Up To 25, Add	7.19		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.60		
	For Bursting Ductile Iron Pipe, Add	3.99		
33 01 30 23-0014	LF 8" Diameter, Pneumatic Head Pipe Bursting	23.73		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.45		
	For >150 To 200, Add	0.94		
	For >100 To 150, Add	1.89		
	For >75 To 100, Add	2.83		
	For >50 To 75, Add	3.78		
	For >25 To 50, Add	5.66		
	For Up To 25, Add	8.50		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.89		
	For Bursting Ductile Iron Pipe, Add	4.72		
33 01 30 23-0015	LF 10" Diameter, Pneumatic Head Pipe Bursting	27.47		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.74		
	For >150 To 200, Add	1.13		
	For >100 To 150, Add	2.26		
	For >75 To 100, Add	3.39		
	For >50 To 75, Add	4.52		
	For >25 To 50, Add	6.79		
	For Up To 25, Add	10.18		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.26		
	For Bursting Ductile Iron Pipe, Add	5.66		
33 01 30 23-0016	LF 12" Diameter, Pneumatic Head Pipe Bursting	31.79		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.07		
	For >150 To 200, Add	1.35		
	For >100 To 150, Add	2.69		
	For >75 To 100, Add	4.04		
	For >50 To 75, Add	5.39		
	For >25 To 50, Add	8.08		
	For Up To 25, Add	12.12		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.69		
	For Bursting Ductile Iron Pipe, Add	6.74		
33 01 30 23-0017	LF 15" Diameter, Pneumatic Head Pipe Bursting	34.50		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.14		
	For >150 To 200, Add	1.39		
	For >100 To 150, Add	2.78		
	For >75 To 100, Add	4.17		
	For >50 To 75, Add	5.56		
	For >25 To 50, Add	8.34		
	For Up To 25, Add	12.51		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.78		
	For Bursting Ductile Iron Pipe, Add	6.95		
33 01 30 23-0018	LF 18" Diameter, Pneumatic Head Pipe Bursting	38.84		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.47		
	For >150 To 200, Add	1.61		
	For >100 To 150, Add	3.21		
	For >75 To 100, Add	4.82		
	For >50 To 75, Add	6.43		
	For >25 To 50, Add	9.64		
	For Up To 25, Add	14.46		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.21		
	For Bursting Ductile Iron Pipe, Add	8.04		
33 01 30 23-0019	LF 21"/22" Diameter, Pneumatic Head Pipe Bursting	48.27		
	For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.94		
	For >150 To 200, Add	1.91		
	For >100 To 150, Add	3.82		
	For >75 To 100, Add	5.73		
	For >50 To 75, Add	7.64		
	For >25 To 50, Add	11.47		
	For Up To 25, Add	17.20		
	For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.82		
	For Bursting Ductile Iron Pipe, Add	9.56		



Utilities		33	CS
Operation And Maintenance Of Utilities		33 01	
Operation And Maintenance Of Sewer Utilities		33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0020	LF		24" Diameter, Pneumatic Head Pipe Bursting	60.57	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.89	
			For >150 To 200, Add	2.53	
			For >100 To 150, Add	5.05	
			For >75 To 100, Add	7.58	
			For >50 To 75, Add	10.10	
			For >25 To 50, Add	15.16	
			For Up To 25, Add	22.73	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.05	
			For Bursting Ductile Iron Pipe, Add	12.63	
33 01 30 23-0021	LF		30" Diameter, Pneumatic Head Pipe Bursting	65.80	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.04	
			For >150 To 200, Add	2.62	
			For >100 To 150, Add	5.24	
			For >75 To 100, Add	7.86	
			For >50 To 75, Add	10.48	
			For >25 To 50, Add	15.72	
			For Up To 25, Add	23.58	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.24	
			For Bursting Ductile Iron Pipe, Add	13.10	
33 01 30 23-0022	LF		36" Diameter, Pneumatic Head Pipe Bursting	85.86	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.58	
			For >150 To 200, Add	3.62	
			For >100 To 150, Add	7.25	
			For >75 To 100, Add	10.87	
			For >50 To 75, Add	14.49	
			For >25 To 50, Add	21.74	
			For Up To 25, Add	32.61	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.25	
			For Bursting Ductile Iron Pipe, Add	18.12	
33 01 30 23-0023 Static Head Pipe Bursting (33 01 30 23-0006)					
33 01 30 23-0024	LF		4" Diameter, Static Head Pipe Bursting	24.00	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.47	
			For >150 To 200, Add	0.96	
			For >100 To 150, Add	1.92	
			For >75 To 100, Add	2.87	
			For >50 To 75, Add	3.83	
			For >25 To 50, Add	5.75	
			For Up To 25, Add	8.62	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.92	
			For Bursting Ductile Iron Pipe, Add	4.79	
33 01 30 23-0025	LF		6" Diameter, Static Head Pipe Bursting	27.10	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.71	
			For >150 To 200, Add	1.11	
			For >100 To 150, Add	2.23	
			For >75 To 100, Add	3.34	
			For >50 To 75, Add	4.45	
			For >25 To 50, Add	6.68	
			For Up To 25, Add	10.01	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.23	
			For Bursting Ductile Iron Pipe, Add	5.56	
33 01 30 23-0026	LF		8" Diameter, Static Head Pipe Bursting	30.70	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.99	
			For >150 To 200, Add	1.29	
			For >100 To 150, Add	2.59	
			For >75 To 100, Add	3.88	
			For >50 To 75, Add	5.17	
			For >25 To 50, Add	7.76	
			For Up To 25, Add	11.63	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.59	
			For Bursting Ductile Iron Pipe, Add	6.46	
33 01 30 23-0027	LF		10" Diameter, Static Head Pipe Bursting	35.38	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.35	
			For >150 To 200, Add	1.53	
			For >100 To 150, Add	3.05	
			For >75 To 100, Add	4.58	
			For >50 To 75, Add	6.11	
			For >25 To 50, Add	9.16	
			For Up To 25, Add	13.74	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.05	
			For Bursting Ductile Iron Pipe, Add	7.63	
33 01 30 23-0028	LF		12" Diameter, Static Head Pipe Bursting	40.78	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.77	
			For >150 To 200, Add	1.80	
			For >100 To 150, Add	3.59	
			For >75 To 100, Add	5.39	
			For >50 To 75, Add	7.19	
			For >25 To 50, Add	10.78	
			For Up To 25, Add	16.17	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.59	
			For Bursting Ductile Iron Pipe, Add	8.98	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0029	LF		15" Diameter, Static Head Pipe Bursting	46.07	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.03	
			For >150 To 200, Add	1.97	
			For >100 To 150, Add	3.94	
			For >75 To 100, Add	5.91	
			For >50 To 75, Add	7.87	
			For >25 To 50, Add	11.81	
			For Up To 25, Add	17.72	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.94	
			For Bursting Ductile Iron Pipe, Add	9.84	
33 01 30 23-0030	LF		18" Diameter, Static Head Pipe Bursting	51.25	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.43	
			For >150 To 200, Add	2.23	
			For >100 To 150, Add	4.46	
			For >75 To 100, Add	6.68	
			For >50 To 75, Add	8.91	
			For >25 To 50, Add	13.37	
			For Up To 25, Add	20.05	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.46	
			For Bursting Ductile Iron Pipe, Add	11.14	
33 01 30 23-0031	LF		21"/22" Diameter, Static Head Pipe Bursting	63.40	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.11	
			For >150 To 200, Add	2.67	
			For >100 To 150, Add	5.34	
			For >75 To 100, Add	8.00	
			For >50 To 75, Add	10.67	
			For >25 To 50, Add	16.01	
			For Up To 25, Add	24.01	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.34	
			For Bursting Ductile Iron Pipe, Add	13.34	
33 01 30 23-0032	LF		24" Diameter, Static Head Pipe Bursting	82.60	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.59	
			For >150 To 200, Add	3.63	
			For >100 To 150, Add	7.26	
			For >75 To 100, Add	10.88	
			For >50 To 75, Add	14.51	
			For >25 To 50, Add	21.77	
			For Up To 25, Add	32.65	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.26	
			For Bursting Ductile Iron Pipe, Add	18.14	
33 01 30 23-0033	LF		30" Diameter, Static Head Pipe Bursting	100.08	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.68	
			For >150 To 200, Add	4.33	
			For >100 To 150, Add	8.67	
			For >75 To 100, Add	13.00	
			For >50 To 75, Add	17.34	
			For >25 To 50, Add	26.01	
			For Up To 25, Add	39.01	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.67	
			For Bursting Ductile Iron Pipe, Add	21.67	
33 01 30 23-0034	LF		36" Diameter, Static Head Pipe Bursting	122.07	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.37	
			For >150 To 200, Add	5.43	
			For >100 To 150, Add	10.87	
			For >75 To 100, Add	16.30	
			For >50 To 75, Add	21.74	
			For >25 To 50, Add	32.60	
			For Up To 25, Add	48.91	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	10.87	
			For Bursting Ductile Iron Pipe, Add	27.17	
33 01 30 23-0035			Hydraulic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0036	LF		4" Diameter, Hydraulic Head Pipe Bursting	20.59	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.21	
			For >150 To 200, Add	0.79	
			For >100 To 150, Add	1.57	
			For >75 To 100, Add	2.36	
			For >50 To 75, Add	3.15	
			For >25 To 50, Add	4.72	
			For Up To 25, Add	7.08	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.57	
			For Bursting Ductile Iron Pipe, Add	3.94	
33 01 30 23-0037	LF		6" Diameter, Hydraulic Head Pipe Bursting	23.35	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.42	
			For >150 To 200, Add	0.93	
			For >100 To 150, Add	1.85	
			For >75 To 100, Add	2.78	
			For >50 To 75, Add	3.70	
			For >25 To 50, Add	5.55	
			For Up To 25, Add	8.33	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.85	
			For Bursting Ductile Iron Pipe, Add	4.63	



	Utilities	33	
	Operation And Maintenance Of Utilities	33 01	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0038 LF 8" Diameter, Hydraulic Head Pipe Bursting	26.51	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.67	
For >150 To 200, Add	1.08	
For >100 To 150, Add	2.17	
For >75 To 100, Add	3.25	
For >50 To 75, Add	4.33	
For >25 To 50, Add	6.50	
For Up To 25, Add	9.75	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.17	
For Bursting Ductile Iron Pipe, Add	5.42	
33 01 30 23-0039 LF 10" Diameter, Hydraulic Head Pipe Bursting	30.64	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.99	
For >150 To 200, Add	1.29	
For >100 To 150, Add	2.58	
For >75 To 100, Add	3.87	
For >50 To 75, Add	5.16	
For >25 To 50, Add	7.74	
For Up To 25, Add	11.61	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.58	
For Bursting Ductile Iron Pipe, Add	6.45	
33 01 30 23-0040 LF 12" Diameter, Hydraulic Head Pipe Bursting	35.38	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.35	
For >150 To 200, Add	1.53	
For >100 To 150, Add	3.05	
For >75 To 100, Add	4.58	
For >50 To 75, Add	6.11	
For >25 To 50, Add	9.16	
For Up To 25, Add	13.74	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.05	
For Bursting Ductile Iron Pipe, Add	7.63	
33 01 30 23-0041 LF 15" Diameter, Hydraulic Head Pipe Bursting	39.78	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.55	
For >150 To 200, Add	1.65	
For >100 To 150, Add	3.31	
For >75 To 100, Add	4.96	
For >50 To 75, Add	6.62	
For >25 To 50, Add	9.92	
For Up To 25, Add	14.89	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.31	
For Bursting Ductile Iron Pipe, Add	8.27	
33 01 30 23-0042 LF 18" Diameter, Hydraulic Head Pipe Bursting	44.87	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.94	
For >150 To 200, Add	1.91	
For >100 To 150, Add	3.82	
For >75 To 100, Add	5.73	
For >50 To 75, Add	7.63	
For >25 To 50, Add	11.45	
For Up To 25, Add	17.18	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.82	
For Bursting Ductile Iron Pipe, Add	9.54	
33 01 30 23-0043 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting	55.76	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.52	
For >150 To 200, Add	2.29	
For >100 To 150, Add	4.57	
For >75 To 100, Add	6.86	
For >50 To 75, Add	9.14	
For >25 To 50, Add	13.71	
For Up To 25, Add	20.57	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.57	
For Bursting Ductile Iron Pipe, Add	11.43	
33 01 30 23-0044 LF 24" Diameter, Hydraulic Head Pipe Bursting	73.44	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.88	
For >150 To 200, Add	3.17	
For >100 To 150, Add	6.34	
For >75 To 100, Add	9.51	
For >50 To 75, Add	12.68	
For >25 To 50, Add	19.02	
For Up To 25, Add	28.53	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.34	
For Bursting Ductile Iron Pipe, Add	15.85	
33 01 30 23-0045 LF 30" Diameter, Hydraulic Head Pipe Bursting	89.80	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.88	
For >150 To 200, Add	3.82	
For >100 To 150, Add	7.64	
For >75 To 100, Add	11.46	
For >50 To 75, Add	15.28	
For >25 To 50, Add	22.92	
For Up To 25, Add	34.38	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.64	
For Bursting Ductile Iron Pipe, Add	19.10	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0046 LF 36" Diameter, Hydraulic Head Pipe Bursting	110.71	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.49	
For >150 To 200, Add	4.87	
For >100 To 150, Add	9.73	
For >75 To 100, Add	14.60	
For >50 To 75, Add	19.46	
For >25 To 50, Add	29.20	
For Up To 25, Add	43.79	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.73	
For Bursting Ductile Iron Pipe, Add	24.33	
33 01 30 23-0047 Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0048 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0047)		
Note: Per each joint.		
33 01 30 23-0049 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	94.00	
33 01 30 23-0050 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	107.85	
33 01 30 23-0051 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	128.63	
33 01 30 23-0052 High Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0047)		
Note: Material only, to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0048 for pipe joint fusion.		
33 01 30 23-0053 LF 4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	2.73	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.28	
For DR 11 Polyethylene Pipe, 160 PSI, Add	0.76	
For White Interior Pipe, Add	0.51	
For Gray Interior Pipe, Add	0.39	
33 01 30 23-0054 LF 5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	3.56	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.42	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.15	
For White Interior Pipe, Add	0.78	
For Gray Interior Pipe, Add	0.59	
33 01 30 23-0055 LF 6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	5.02	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.68	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.85	
For White Interior Pipe, Add	1.25	
For Gray Interior Pipe, Add	0.95	
33 01 30 23-0056 LF 7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	5.63	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.78	
For DR 11 Polyethylene Pipe, 160 PSI, Add	2.13	
For White Interior Pipe, Add	1.44	
For Gray Interior Pipe, Add	1.09	
33 01 30 23-0057 LF 8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	7.68	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.15	
For DR 11 Polyethylene Pipe, 160 PSI, Add	3.12	
For White Interior Pipe, Add	2.11	
For Gray Interior Pipe, Add	1.60	
33 01 30 23-0058 LF 10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	11.26	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.79	
For DR 11 Polyethylene Pipe, 160 PSI, Add	4.85	
For White Interior Pipe, Add	3.27	
For Gray Interior Pipe, Add	2.48	
33 01 30 23-0059 LF 12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	15.33	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-2.51	
For DR 11 Polyethylene Pipe, 160 PSI, Add	6.82	
For White Interior Pipe, Add	4.60	
For Gray Interior Pipe, Add	3.49	
33 01 30 23-0060 LF 13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	16.76	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-2.76	
For DR 11 Polyethylene Pipe, 160 PSI, Add	7.51	
For White Interior Pipe, Add	5.07	
For Gray Interior Pipe, Add	3.84	
33 01 30 23-0061 LF 14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	18.27	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-3.03	
For DR 11 Polyethylene Pipe, 160 PSI, Add	8.22	
For White Interior Pipe, Add	5.55	
For Gray Interior Pipe, Add	4.21	
33 01 30 23-0062 LF 16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	23.52	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-3.95	
For DR 11 Polyethylene Pipe, 160 PSI, Add	10.74	
For White Interior Pipe, Add	7.25	
For Gray Interior Pipe, Add	5.49	
33 01 30 23-0063 LF 18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	29.47	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-5.01	
For DR 11 Polyethylene Pipe, 160 PSI, Add	13.60	
For White Interior Pipe, Add	9.18	
For Gray Interior Pipe, Add	6.96	
33 01 30 23-0064 LF 20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	36.10	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-6.18	
For DR 11 Polyethylene Pipe, 160 PSI, Add	16.79	
For White Interior Pipe, Add	11.33	
For Gray Interior Pipe, Add	8.59	



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0065	LF	22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	43.44	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-7.48	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	20.31	
		For White Interior Pipe, Add	13.71	
		For Gray Interior Pipe, Add	10.39	
33 01 30 23-0066	LF	24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	51.52	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-8.90	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	24.19	
		For White Interior Pipe, Add	16.32	
		For Gray Interior Pipe, Add	12.37	
33 01 30 23-0067	LF	26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	60.26	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-10.44	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	28.37	
		For White Interior Pipe, Add	19.14	
		For Gray Interior Pipe, Add	14.50	
33 01 30 23-0068	LF	28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	69.77	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-12.11	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	32.90	
		For White Interior Pipe, Add	22.21	
		For Gray Interior Pipe, Add	16.82	
33 01 30 23-0069	LF	30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	80.00	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-13.91	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	37.78	
		For White Interior Pipe, Add	25.49	
		For Gray Interior Pipe, Add	19.31	
33 01 30 23-0070	LF	32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	90.96	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-15.82	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	42.97	
		For White Interior Pipe, Add	29.00	
		For Gray Interior Pipe, Add	21.97	
33 01 30 23-0071	LF	34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	111.96	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-19.52	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	53.02	
		For White Interior Pipe, Add	35.78	
		For Gray Interior Pipe, Add	27.11	
33 01 30 23-0072	LF	36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	115.35	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-20.02	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	54.39	
		For White Interior Pipe, Add	36.71	
		For Gray Interior Pipe, Add	27.81	
33 01 30 23-0073		Re-Connection Of Non-Renewed Laterals (33 01 30 23-0004)		
33 01 30 23-0074		Re-Connection Of Non-Renewed Laterals; Insert-A-Tee (33 01 30 23-0073)		
		Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0038 for hauling.		
33 01 30 23-0075	EA	Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....	918.72	
		For No Excavation, Deduct	-608.34	
33 01 30 23-0076	EA	Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,031.86	
		For No Excavation, Deduct	-684.38	
33 01 30 23-0077	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee	1,089.19	
		For No Excavation, Deduct	-722.41	
33 01 30 23-0078	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee	1,146.52	
		For No Excavation, Deduct	-760.43	
33 01 30 23-0079	EA	Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee	1,232.44	
		For No Excavation, Deduct	-798.46	
33 01 30 23-0080	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee	1,157.05	
		For No Excavation, Deduct	-760.43	
33 01 30 23-0081	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee	1,215.89	
		For No Excavation, Deduct	-798.46	
33 01 30 23-0082	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee	1,295.77	
		For No Excavation, Deduct	-836.47	
33 01 30 23-0083	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee	1,477.99	
		For No Excavation, Deduct	-874.50	
33 01 30 23-0084	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee	1,553.37	
		For No Excavation, Deduct	-912.51	
33 01 30 23-0085	EA	Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee	1,827.38	
		For No Excavation, Deduct	-950.54	
33 01 30 23-0086		Re-Connection Of Non-Renewed Laterals; Saddle Style (33 01 30 23-0073)		
		Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0038 for hauling.		
33 01 30 23-0087	EA	Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,197.44	
		For No Excavation, Deduct	-678.96	
		For Strap-On Saddle Type Instead Of Fusion Weld	-145.65	
33 01 30 23-0088	EA	Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,443.38	
		For No Excavation, Deduct	-706.12	
		For Strap-On Saddle Type Instead Of Fusion Weld	-127.77	
33 01 30 23-0089	EA	Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	3,505.97	
		For No Excavation, Deduct	-733.27	
		For Strap-On Saddle Type Instead Of Fusion Weld	12.61	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0090 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	3,668.92	
For No Excavation, Deduct	-814.75	
For Strap-On Saddle Type Instead Of Fusion Weld	-19.98	
33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	6,721.40	
For No Excavation, Deduct	-869.06	
For Strap-On Saddle Type Instead Of Fusion Weld	399.87	
33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,274.70	
For No Excavation, Deduct	-964.12	
For Strap-On Saddle Type Instead Of Fusion Weld	416.32	
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	9,882.31	
For No Excavation, Deduct	-1,059.17	
For Strap-On Saddle Type Instead Of Fusion Weld	740.93	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	9,335.71	
For No Excavation, Deduct	-1,194.97	
For Strap-On Saddle Type Instead Of Fusion Weld	563.88	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	11,356.70	
For No Excavation, Deduct	-1,412.23	
For Strap-On Saddle Type Instead Of Fusion Weld	714.95	

33 01 30 41 Cleaning of Sewers (33 01 30)**33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)**

Note: Includes flushing. Owner provided water.

33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)

Note: Includes removal of all debris/waste. Excludes disposal.

33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)

33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning	2,004.05
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning	501.02

33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)

33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	2.69
For >250 To 500, Deduct	-0.13
For >500 To 1,000, Deduct	-0.27
For >1,000 To 2,000, Deduct	-0.40
For >2,000 To 5,000, Deduct	-0.54
For >5,000, Deduct	-0.67
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.02
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.09
For >250 To 500, Deduct	-0.15
For >500 To 1,000, Deduct	-0.31
For >1,000 To 2,000, Deduct	-0.46
For >2,000 To 5,000, Deduct	-0.62
For >5,000, Deduct	-0.77
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.32
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.63
For >250 To 500, Deduct	-0.18
For >500 To 1,000, Deduct	-0.36
For >1,000 To 2,000, Deduct	-0.54
For >2,000 To 5,000, Deduct	-0.73
For >5,000, Deduct	-0.91
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.72
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.49
For >250 To 500, Deduct	-0.22
For >500 To 1,000, Deduct	-0.45
For >1,000 To 2,000, Deduct	-0.67
For >2,000 To 5,000, Deduct	-0.90
For >5,000, Deduct	-1.12
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.37
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.09
For >250 To 500, Deduct	-0.25
For >500 To 1,000, Deduct	-0.51
For >1,000 To 2,000, Deduct	-0.76
For >2,000 To 5,000, Deduct	-1.02
For >5,000, Deduct	-1.27
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.82
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	5.89
For >250 To 500, Deduct	-0.29
For >500 To 1,000, Deduct	-0.59
For >1,000 To 2,000, Deduct	-0.88
For >2,000 To 5,000, Deduct	-1.18
For >5,000, Deduct	-1.47
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.42
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.07
For >250 To 500, Deduct	-0.35
For >500 To 1,000, Deduct	-0.71
For >1,000 To 2,000, Deduct	-1.06
For >2,000 To 5,000, Deduct	-1.41
For >5,000, Deduct	-1.77
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.30



		Utilities	33	
		Operation And Maintenance Of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0014	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	8.03	
		For >250 To 500, Deduct	-0.40	
		For >500 To 1,000, Deduct	-0.80	
		For >1,000 To 2,000, Deduct	-1.20	
		For >2,000 To 5,000, Deduct	-1.61	
		For >5,000, Deduct	-2.01	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.02	
33 01 30 41-0015		Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
		Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0016	LF	12" To 16" Diameter Pipe Line Flushing.....	1.16	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.12	
		For >1,000 To 2,000, Deduct	-0.17	
		For >2,000 To 5,000, Deduct	-0.23	
		For >5,000, Deduct	-0.29	
33 01 30 41-0017	LF	>16" To 24" Diameter Pipe Line Flushing.....	1.33	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.13	
		For >1,000 To 2,000, Deduct	-0.20	
		For >2,000 To 5,000, Deduct	-0.27	
		For >5,000, Deduct	-0.33	
33 01 30 41-0018	LF	>24" To 30" Diameter Pipe Line Flushing.....	1.56	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.16	
		For >1,000 To 2,000, Deduct	-0.23	
		For >2,000 To 5,000, Deduct	-0.31	
		For >5,000, Deduct	-0.39	
33 01 30 41-0019	LF	>30" To 42" Diameter Pipe Line Flushing.....	1.81	
		For >250 To 500, Deduct	-0.09	
		For >500 To 1,000, Deduct	-0.18	
		For >1,000 To 2,000, Deduct	-0.27	
		For >2,000 To 5,000, Deduct	-0.36	
		For >5,000, Deduct	-0.45	
33 01 30 41-0020	LF	>42" To 60" Diameter Pipe Line Flushing.....	2.41	
		For >250 To 500, Deduct	-0.12	
		For >500 To 1,000, Deduct	-0.24	
		For >1,000 To 2,000, Deduct	-0.36	
		For >2,000 To 5,000, Deduct	-0.48	
		For >5,000, Deduct	-0.60	
33 01 30 41-0021		Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0022	LF	Jet Cleaning Of Culvert, 0-250 LF.....	12.46	
		For >250 To 500, Deduct	-0.62	
		For >500 To 1,000, Deduct	-1.25	
		For >1,000 To 2,000, Deduct	-1.87	
		For >2,000 To 5,000, Deduct	-2.49	
		For >5,000, Deduct	-3.12	
33 01 30 41-0023		Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
		Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0024	EA	Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	949.27	
33 01 30 41-0025	EA	Move And Reset Up At Different Access/Location.....	316.42	
33 01 30 41-0026	LF	Up To 4" Diameter Pipe Line Cleaning, Mechanical Method.....	5.43	
		For >250 To 500, Deduct	-0.26	
		For >500 To 1,000, Deduct	-0.53	
		For >1,000 To 2,000, Deduct	-0.79	
		For >2,000 To 5,000, Deduct	-1.06	
		For >5,000, Deduct	-1.32	
33 01 30 41-0027	LF	6" Diameter Pipe Line Cleaning, Mechanical Method.....	7.08	
		For >250 To 500, Deduct	-0.34	
		For >500 To 1,000, Deduct	-0.68	
		For >1,000 To 2,000, Deduct	-1.02	
		For >2,000 To 5,000, Deduct	-1.36	
		For >5,000, Deduct	-1.70	
33 01 30 41-0028	LF	8" Diameter Pipe Line Cleaning, Mechanical Method.....	8.29	
		For >250 To 500, Deduct	-0.40	
		For >500 To 1,000, Deduct	-0.79	
		For >1,000 To 2,000, Deduct	-1.19	
		For >2,000 To 5,000, Deduct	-1.58	
		For >5,000, Deduct	-1.98	
33 01 30 41-0029	LF	10" Diameter Pipe Line Cleaning, Mechanical Method.....	9.58	
		For >250 To 500, Deduct	-0.46	
		For >500 To 1,000, Deduct	-0.91	
		For >1,000 To 2,000, Deduct	-1.37	
		For >2,000 To 5,000, Deduct	-1.83	
		For >5,000, Deduct	-2.28	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0030 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	10.42	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.99	
For >1,000 To 2,000, Deduct	-1.48	
For >2,000 To 5,000, Deduct	-1.98	
For >5,000, Deduct	-2.47	
33 01 30 41-0031 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	11.98	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 2,000, Deduct	-1.70	
For >2,000 To 5,000, Deduct	-2.26	
For >5,000, Deduct	-2.83	
33 01 30 41-0032 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	15.01	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.40	
For >1,000 To 2,000, Deduct	-2.09	
For >2,000 To 5,000, Deduct	-2.79	
For >5,000, Deduct	-3.49	
33 01 30 41-0033 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method.....	17.06	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.56	
For >1,000 To 2,000, Deduct	-2.33	
For >2,000 To 5,000, Deduct	-3.11	
For >5,000, Deduct	-3.89	
33 01 30 41-0034 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method.....	19.79	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.79	
For >1,000 To 2,000, Deduct	-2.69	
For >2,000 To 5,000, Deduct	-3.58	
For >5,000, Deduct	-4.48	
33 01 30 41-0035 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	25.99	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-2.37	
For >1,000 To 2,000, Deduct	-3.56	
For >2,000 To 5,000, Deduct	-4.75	
For >5,000, Deduct	-5.93	
33 01 30 41-0036 LF >60" Diameter Pipe Line Cleaning, Mechanical Method	29.38	
For >250 To 500, Deduct	-1.32	
For >500 To 1,000, Deduct	-2.64	
For >1,000 To 2,000, Deduct	-3.96	
For >2,000 To 5,000, Deduct	-5.27	
For >5,000, Deduct	-6.59	
33 01 30 41-0037 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0038 EA Initial Set Up And Final Equipment Removal For Auguring.....	949.27	
33 01 30 41-0039 EA Move And Reset Up At Different Location	316.42	
33 01 30 41-0040 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.16	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.32	
For >1,000 To 2,000, Deduct	-0.47	
For >2,000 To 5,000, Deduct	-0.63	
For >5,000, Deduct	-0.79	
33 01 30 41-0041 LF 6" Diameter Pipe Line Auguring/Rod Out.....	4.09	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.41	
For >1,000 To 2,000, Deduct	-0.61	
For >2,000 To 5,000, Deduct	-0.82	
For >5,000, Deduct	-1.02	
33 01 30 41-0042 LF 8" Diameter Pipe Line Auguring/Rod Out.....	4.75	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.48	
For >1,000 To 2,000, Deduct	-0.71	
For >2,000 To 5,000, Deduct	-0.95	
For >5,000, Deduct	-1.19	
33 01 30 41-0043 LF 10" Diameter Pipe Line Auguring/Rod Out.....	5.52	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 2,000, Deduct	-0.83	
For >2,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.38	
33 01 30 41-0044 LF 12" Diameter Pipe Line Auguring/Rod Out.....	5.94	
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 2,000, Deduct	-0.89	
For >2,000 To 5,000, Deduct	-1.19	
For >5,000, Deduct	-1.49	
33 01 30 41-0045 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....	6.78	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.68	
For >1,000 To 2,000, Deduct	-1.02	
For >2,000 To 5,000, Deduct	-1.36	
For >5,000, Deduct	-1.70	



		Utilities	33	
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0046 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	8.33	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.83	
For >1,000 To 2,000, Deduct	-1.25	
For >2,000 To 5,000, Deduct	-1.67	
For >5,000, Deduct	-2.08	
33 01 30 41-0047 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	9.30	
For >250 To 500, Deduct	-0.47	
For >500 To 1,000, Deduct	-0.93	
For >1,000 To 2,000, Deduct	-1.40	
For >2,000 To 5,000, Deduct	-1.86	
For >5,000, Deduct	-2.33	
33 01 30 41-0048 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	10.78	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-1.08	
For >1,000 To 2,000, Deduct	-1.62	
For >2,000 To 5,000, Deduct	-2.16	
For >5,000, Deduct	-2.70	
33 01 30 41-0049 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....	14.83	
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.48	
For >1,000 To 2,000, Deduct	-2.22	
For >2,000 To 5,000, Deduct	-2.97	
For >5,000, Deduct	-3.71	
33 01 30 41-0050 LF >60" Diameter Pipe Line Auguring/Rod Out.....	15.82	
For >250 To 500, Deduct	-0.79	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-2.37	
For >2,000 To 5,000, Deduct	-3.16	
For >5,000, Deduct	-3.96	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003 EA Rod Out Sewer Catch Basin.....	94.79	
33 01 30 42-0004 EA Clean Out Debris From Entrance To Inlet Structure	236.98	
33 01 30 42-0005 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand.....	721.62	
For >10 To 100, Deduct	-108.24	
For >100 To 250, Deduct	-162.36	
For >250, Deduct	-216.49	
33 01 30 42-0006 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand.....	865.94	
For >10 To 100, Deduct	-129.89	
For >100 To 250, Deduct	-194.84	
For >250, Deduct	-259.78	
33 01 30 42-0007 EA Clean Out Blocked Catch Basin By Hand.....	432.97	
For >10 To 100, Deduct	-64.95	
For >100 To 250, Deduct	-97.42	
For >250, Deduct	-129.89	

33 01 30 42-0008 Cleaning Manholes And Drainage Structures (33 01 30 42-0001)

Note: Includes removal of debris. Excludes disposal.

33 01 30 42-0009 VLF Waterblast Cleaning For 3' To 4' Diameter Manhole	83.50	
33 01 30 42-0010 VLF Waterblast Cleaning For 5' To 6' Diameter Manhole	104.37	
33 01 30 42-0011 EA Vacuum Out 1 To 2 Catch Basins Or Manholes	1,070.48	
Note: Includes vacuum pump equipment.		
33 01 30 42-0012 EA Vacuum Out 3 To 10 Catch Basins Or Manholes	802.86	
Note: Includes vacuum pump equipment.		
33 01 30 42-0013 EA Vacuum Out 11 To 25 Catch Basins Or Manholes	535.24	
Note: Includes vacuum pump equipment.		
33 01 30 42-0014 EA Vacuum Out 26 To 100 Catch Basins Or Manholes	468.34	
Note: Includes vacuum pump equipment.		
33 01 30 42-0015 EA Vacuum Out 101 To 250 Catch Basins Or Manholes	434.88	
Note: Includes vacuum pump equipment.		
33 01 30 42-0016 EA Vacuum Out >250 Catch Basins Or Manholes	401.43	
Note: Includes vacuum pump equipment.		

33 01 30 43 Removal of Protruding Service Connection (33 01 30)

33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)

33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic.....	541.14	
33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic.....	595.25	
33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic.....	649.37	

33 01 30 51 Maintenance Of Utilities (33 01 30)

33 01 30 51-0001 Pipe Repair (33 01 30 51)

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 51-0002	Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)			
	Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.			
33 01 30 51-0003	EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	118.34		
	For Stainless Steel Nuts And Bolts, Add	18.76		
33 01 30 51-0004	EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	167.50		
	For Stainless Steel Nuts And Bolts, Add	28.27		
33 01 30 51-0005	EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	193.26		
	For Stainless Steel Nuts And Bolts, Add	33.30		
33 01 30 51-0006	EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	220.03		
	For Stainless Steel Nuts And Bolts, Add	38.31		
33 01 30 51-0007	EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	127.59		
	For Stainless Steel Nuts And Bolts, Add	20.38		
33 01 30 51-0008	EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	177.99		
	For Stainless Steel Nuts And Bolts, Add	30.17		
33 01 30 51-0009	EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	203.79		
	For Stainless Steel Nuts And Bolts, Add	35.08		
33 01 30 51-0010	EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	235.29		
	For Stainless Steel Nuts And Bolts, Add	41.05		
33 01 30 51-0011	EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	137.04		
	For Stainless Steel Nuts And Bolts, Add	22.29		
33 01 30 51-0012	EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	185.08		
	For Stainless Steel Nuts And Bolts, Add	31.55		
33 01 30 51-0013	EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	213.74		
	For Stainless Steel Nuts And Bolts, Add	36.99		
33 01 30 51-0014	EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	248.86		
	For Stainless Steel Nuts And Bolts, Add	43.91		
33 01 30 51-0015	EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	154.29		
	For Stainless Steel Nuts And Bolts, Add	25.34		
33 01 30 51-0016	EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	203.51		
	For Stainless Steel Nuts And Bolts, Add	34.12		
33 01 30 51-0017	EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	246.73		
	For Stainless Steel Nuts And Bolts, Add	41.53		
33 01 30 51-0018	EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	297.21		
	For Stainless Steel Nuts And Bolts, Add	50.10		
33 01 30 51-0019	EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	387.83		
	For Stainless Steel Nuts And Bolts, Add	67.29		
33 01 30 51-0020	EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	482.19		
	For Stainless Steel Nuts And Bolts, Add	84.48		
33 01 30 51-0021	EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	588.01		
	For Stainless Steel Nuts And Bolts, Add	103.63		
33 01 30 51-0022	EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	181.32		
	For Stainless Steel Nuts And Bolts, Add	29.91		
33 01 30 51-0023	EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	240.49		
	For Stainless Steel Nuts And Bolts, Add	40.57		
33 01 30 51-0024	EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	284.93		
	For Stainless Steel Nuts And Bolts, Add	47.84		
33 01 30 51-0025	EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	334.02		
	For Stainless Steel Nuts And Bolts, Add	55.59		
33 01 30 51-0026	EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	461.00		
	For Stainless Steel Nuts And Bolts, Add	80.56		
33 01 30 51-0027	EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	560.43		
	For Stainless Steel Nuts And Bolts, Add	98.23		
33 01 30 51-0028	EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	669.34		
	For Stainless Steel Nuts And Bolts, Add	117.39		
33 01 30 51-0029	EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	237.62		
	For Stainless Steel Nuts And Bolts, Add	35.78		
33 01 30 51-0030	EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	308.41		
	For Stainless Steel Nuts And Bolts, Add	47.35		
33 01 30 51-0031	EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	372.19		
	For Stainless Steel Nuts And Bolts, Add	57.30		
33 01 30 51-0032	EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	444.54		
	For Stainless Steel Nuts And Bolts, Add	68.28		
33 01 30 51-0033	EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	588.67		
	For Stainless Steel Nuts And Bolts, Add	94.59		
33 01 30 51-0034	EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	704.07		
	For Stainless Steel Nuts And Bolts, Add	113.10		
33 01 30 51-0035	EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	834.18		
	For Stainless Steel Nuts And Bolts, Add	133.12		
33 01 30 51-0036	EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	277.55		
	For Stainless Steel Nuts And Bolts, Add	43.55		
33 01 30 51-0037	EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	372.15		
	For Stainless Steel Nuts And Bolts, Add	60.24		
33 01 30 51-0038	EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	438.53		
	For Stainless Steel Nuts And Bolts, Add	70.43		
33 01 30 51-0039	EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	537.72		
	For Stainless Steel Nuts And Bolts, Add	87.11		
33 01 30 51-0040	EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	704.50		
	For Stainless Steel Nuts And Bolts, Add	118.16		
33 01 30 51-0041	EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	802.89		
	For Stainless Steel Nuts And Bolts, Add	132.06		
33 01 30 51-0042	EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	1,031.37		
	For Stainless Steel Nuts And Bolts, Add	174.23		



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33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	316.13 49.12	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	412.25 65.33	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	497.55 79.05	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	611.71 98.23	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	785.66 129.75	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	924.41 151.52	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,173.15 196.47	
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001)				
Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.				
33 01 30 51-0051	EA	14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	695.34 188.99	
33 01 30 51-0052	EA	14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	984.30 272.83	
33 01 30 51-0053	EA	14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,324.64 370.00	
33 01 30 51-0054	EA	14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,947.36 557.66	
33 01 30 51-0055	EA	15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	729.88 198.29	
33 01 30 51-0056	EA	15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,030.42 285.48	
33 01 30 51-0057	EA	15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,383.39 385.97	
33 01 30 51-0058	EA	15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,041.50 584.27	
33 01 30 51-0059	EA	15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	748.83 202.30	
33 01 30 51-0060	EA	15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,055.33 290.82	
33 01 30 51-0061	EA	15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,420.14 394.62	
33 01 30 51-0062	EA	15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,094.05 596.91	
33 01 30 51-0063	EA	16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	768.78 206.29	
33 01 30 51-0064	EA	16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,083.72 296.80	
33 01 30 51-0065	EA	16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,456.02 401.94	
33 01 30 51-0066	EA	16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,146.74 608.90	
33 01 30 51-0067	EA	17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	786.80 209.62	
33 01 30 51-0068	EA	17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,108.16 301.45	
33 01 30 51-0069	EA	17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,491.89 409.25	
33 01 30 51-0070	EA	17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,194.59 618.87	
33 01 30 51-0071	EA	17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	803.77 212.96	
33 01 30 51-0072	EA	17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,133.05 306.78	

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33 01 30 51-0073	EA	17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,523.78	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	415.91	
33 01 30 51-0074	EA	17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,225.63	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	623.86	
33 01 30 51-0075	EA	18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	823.13	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	217.10	
33 01 30 51-0076	EA	18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,162.36	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	313.43	
33 01 30 51-0077	EA	18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,557.60	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	423.23	
33 01 30 51-0078	EA	18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,292.93	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	641.50	
33 01 30 51-0079		Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080		Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081		Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling	44.96	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling	52.88	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling	62.00	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling	70.15	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling	100.79	
33 01 30 51-0087		Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow	50.78	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow	62.83	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow	114.02	
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow	55.04	
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow	48.52	
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow	56.72	
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow	68.04	
33 01 30 51-0095		Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee	87.76	
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee	78.28	
33 01 30 51-0098	EA	1" Copper Compression Repair Tee	92.38	
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee	82.06	
33 01 30 51-0100		Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter	42.88	
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter	37.62	
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter	44.86	
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter	57.26	
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter	63.80	
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter	71.32	
33 01 30 51-0107		Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter	48.67	
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter	54.67	
33 01 30 51-0110		Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111		Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) Note: Includes gaskets.		
33 01 30 51-0112	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring	49.15	
33 01 30 51-0113	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring	51.41	
33 01 30 51-0114	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring	58.32	
33 01 30 51-0115	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring	65.28	
33 01 30 51-0116	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring	80.87	
33 01 30 51-0117	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring	98.09	
33 01 30 51-0118	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	50.28	
33 01 30 51-0119	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	52.65	
33 01 30 51-0120	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	58.50	
33 01 30 51-0121	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	65.85	
33 01 30 51-0122	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	82.75	
33 01 30 51-0123	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	98.92	
33 01 30 51-0124	EA	3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	90.02	



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33 01 30 51-0125	EA	1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	105.28	
33 01 30 51-0126	EA	1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	110.78	
33 01 30 51-0127	EA	1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	126.27	
33 01 30 51-0128	EA	2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	153.36	
33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110)				
Note: Includes armored gaskets.				
33 01 30 51-0130	EA	3/4" x 1/2" Reducing Coupling (Compression).....	55.16	
33 01 30 51-0131	EA	1" x 3/4" Reducing Coupling (Compression).....	59.54	
33 01 30 51-0132	EA	1-1/4" x 3/4" Reducing Coupling (Compression).....	67.33	
33 01 30 51-0133	EA	1-1/4" x 1" Reducing Coupling (Compression).....	69.40	
33 01 30 51-0134	EA	1-1/2" x 3/4" Reducing Coupling (Compression).....	124.19	
33 01 30 51-0135	EA	1-1/2" x 1" Reducing Coupling (Compression).....	84.08	
33 01 30 51-0136	EA	1-1/2" x 1-1/4" Reducing Coupling (Compression)	84.38	
33 01 30 51-0137	EA	2" x 3/4" Reducing Coupling (Compression).....	148.42	
33 01 30 51-0138	EA	2" x 1" Reducing Coupling (Compression).....	136.90	
33 01 30 51-0139	EA	2" x 1-1/4" Reducing Coupling (Compression).....	109.48	
33 01 30 51-0140	EA	2" x 1-1/2" Reducing Coupling (Compression).....	109.18	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)				
Note: Includes armored gaskets.				
33 01 30 51-0142	EA	1" 45 Degree Elbow (Compression).....	85.99	
33 01 30 51-0143	EA	1-1/4" 45 Degree Elbow (Compression)	90.83	
33 01 30 51-0144	EA	1-1/2" 45 Degree Elbow (Compression)	116.74	
33 01 30 51-0145	EA	2" 45 Degree Elbow (Compression).....	146.27	
33 01 30 51-0146	EA	3/4" 90 Degree Elbow (Compression).....	59.95	
33 01 30 51-0147	EA	1" 90 Degree Elbow (Compression).....	63.54	
33 01 30 51-0148	EA	1-1/4" 90 Degree Elbow (Compression)	74.07	
33 01 30 51-0149	EA	1-1/2" 90 Degree Elbow (Compression)	103.15	
33 01 30 51-0150	EA	2" 90 Degree Elbow (Compression).....	114.83	
33 01 30 51-0151	EA	3/4" Plain End 90 Degree Street Elbow (Compression).....	60.10	
33 01 30 51-0152	EA	1" Plain End 90 Degree Street Elbow (Compression).....	56.07	
33 01 30 51-0153	EA	1-1/4" Plain End 90 Degree Street Elbow (Compression).....	63.50	
33 01 30 51-0154	EA	1-1/2" Plain End 90 Degree Street Elbow (Compression).....	80.09	
33 01 30 51-0155	EA	2" Plain End 90 Degree Street Elbow (Compression).....	101.80	
33 01 30 51-0156	EA	3/4" Threaded End 90 Degree Street Elbow (Compression)	61.73	
33 01 30 51-0157	EA	1" Threaded End 90 Degree Street Elbow (Compression)	59.11	
33 01 30 51-0158	EA	1-1/4" Threaded End 90 Degree Street Elbow (Compression)	74.79	
33 01 30 51-0159	EA	1-1/2" Threaded End 90 Degree Street Elbow (Compression)	90.87	
33 01 30 51-0160	EA	2" Threaded End 90 Degree Street Elbow (Compression)	124.85	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)				
Note: Includes armored gaskets.				
33 01 30 51-0162	EA	3/4" Street Tee (Compression)	70.31	
33 01 30 51-0163	EA	1" Street Tee (Compression)	82.58	
33 01 30 51-0164	EA	1-1/4" Street Tee (Compression)	85.99	
33 01 30 51-0165	EA	1-1/2" Street Tee (Compression)	101.39	
33 01 30 51-0166	EA	2" Street Tee (Compression)	144.83	
33 01 30 51-0167	EA	1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....	85.40	
33 01 30 51-0168	EA	1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....	88.35	
33 01 30 51-0169	EA	1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....	110.61	
33 01 30 51-0170	EA	1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....	123.92	
33 01 30 51-0171	EA	1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....	124.50	
33 01 30 51-0172	EA	1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....	109.36	
33 01 30 51-0173	EA	2" x 1-1/4" x 2" Reducing Street Tee (Compression).....	141.96	
33 01 30 51-0174	EA	2" x 1-1/2" x 2" Reducing Street Tee (Compression).....	156.73	
33 01 30 51-0175	EA	3/4" Welding Street Tee (Compression)	114.64	
33 01 30 51-0176	EA	1" Welding Street Tee (Compression)	117.68	
33 01 30 51-0177	EA	1-1/4" Welding Street Tee (Compression)	127.58	
33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression)	154.59	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression)	204.17	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression)	88.85	
33 01 30 51-0181	EA	1" Regular Tee (Compression)	145.82	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression)	155.66	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression)	171.06	
33 01 30 51-0184	EA	2" Regular Tee (Compression)	192.20	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	189.83	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)				
Note: Includes armored gaskets.				
33 01 30 51-0187	EA	3/4" Male Adapter (Compression).....	59.81	
33 01 30 51-0188	EA	1" Male Adapter (Compression).....	67.23	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression).....	85.59	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression).....	98.42	
33 01 30 51-0191	EA	2" Male Adapter (Compression).....	112.36	
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression).....	85.21	

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33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0194 EA 3/4" Line Caps (Compression)	31.71	
33 01 30 51-0195 EA 1" Line Caps (Compression)	36.93	
33 01 30 51-0196 EA 1-1/4" Line Caps (Compression)	42.23	
33 01 30 51-0197 EA 1-1/2" Line Caps (Compression)	50.25	
33 01 30 51-0198 EA 2" Line Caps (Compression)	61.73	
33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket, Dresser style 38		
33 01 30 51-0200 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	43.80	
33 01 30 51-0201 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket	55.94	
33 01 30 51-0202 EA 1" Coupling, 5" Middle Ring With Buna S Gasket	66.72	
33 01 30 51-0203 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket	82.83	
33 01 30 51-0204 EA 2" Coupling, 4" Middle Ring With Buna S Gasket	102.20	
33 01 30 51-0205 EA 2" Coupling, 5" Middle Ring With Buna S Gasket	119.46	
33 01 30 51-0206 EA 2" Coupling, 7" Middle Ring With Buna S Gasket	115.17	
33 01 30 51-0207 EA 3" Coupling, 4" Middle Ring With Buna S Gasket	156.95	
33 01 30 51-0208 EA 3" Coupling, 5" Middle Ring With Buna S Gasket	159.55	
33 01 30 51-0209 EA 3" Coupling, 7" Middle Ring With Buna S Gasket	162.15	
33 01 30 51-0210 EA 4" Coupling, 4" Middle Ring With Buna S Gasket	189.01	
33 01 30 51-0211 EA 4" Coupling, 5" Middle Ring With Buna S Gasket	193.42	
33 01 30 51-0212 EA 4" Coupling, 7" Middle Ring With Buna S Gasket	198.95	
33 01 30 51-0213 EA 5" Coupling, 4" Middle Ring With Buna S Gasket	236.92	
33 01 30 51-0214 EA 5" Coupling, 5" Middle Ring With Buna S Gasket	238.66	
33 01 30 51-0215 EA 5" Coupling, 7" Middle Ring With Buna S Gasket	245.00	
33 01 30 51-0216 EA 6" Coupling, 4" Middle Ring With Buna S Gasket	260.87	
33 01 30 51-0217 EA 6" Coupling, 5" Middle Ring With Buna S Gasket	265.58	
33 01 30 51-0218 EA 6" Coupling, 7" Middle Ring With Buna S Gasket	271.60	
33 01 30 51-0219 EA 8" Coupling, 4" Middle Ring With Buna S Gasket	305.34	
33 01 30 51-0220 EA 8" Coupling, 5" Middle Ring With Buna S Gasket	312.31	
33 01 30 51-0221 EA 8" Coupling, 7" Middle Ring With Buna S Gasket	318.03	
33 01 30 51-0222 EA 10" Coupling, 5" Middle Ring With Buna S Gasket	361.10	
33 01 30 51-0223 EA 10" Coupling, 7" Middle Ring With Buna S Gasket	393.99	
33 01 30 51-0224 EA 12" Coupling, 5" Middle Ring With Buna S Gasket	409.71	
33 01 30 51-0225 EA 12" Coupling, 7" Middle Ring With Buna S Gasket	479.43	
33 01 30 51-0226 EA 14" Coupling, 7" Middle Ring With Buna S Gasket	544.03	
33 01 30 51-0227 EA 16" Coupling, 7" Middle Ring With Buna S Gasket	629.23	
33 01 30 51-0228 EA 18" Coupling, 7" Middle Ring With Buna S Gasket	688.60	
33 01 30 51-0229 EA 20" Coupling, 7" Middle Ring With Buna S Gasket	742.76	
33 01 30 51-0230 EA 22" Coupling, 7" Middle Ring With Buna S Gasket	884.03	
33 01 30 51-0231 EA 24" Coupling, 7" Middle Ring With Buna S Gasket	934.30	
33 01 30 51-0232 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket, protected. Dresser style 38.		
33 01 30 51-0233 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected	44.55	
33 01 30 51-0234 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected	55.84	
33 01 30 51-0235 EA 1" Coupling, 5" Middle Ring With Buna S Gasket, Protected	66.67	
33 01 30 51-0236 EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected	82.49	
33 01 30 51-0237 EA 2" Coupling, 4" Middle Ring With Buna S Gasket, Protected	112.12	
33 01 30 51-0238 EA 2" Coupling, 5" Middle Ring With Buna S Gasket, Protected	110.75	
33 01 30 51-0239 EA 2" Coupling, 7" Middle Ring With Buna S Gasket, Protected	111.44	
33 01 30 51-0240 EA 3" Coupling, 4" Middle Ring With Buna S Gasket, Protected	162.15	
33 01 30 51-0241 EA 3" Coupling, 5" Middle Ring With Buna S Gasket, Protected	164.75	
33 01 30 51-0242 EA 3" Coupling, 7" Middle Ring With Buna S Gasket, Protected	167.35	
33 01 30 51-0243 EA 4" Coupling, 4" Middle Ring With Buna S Gasket, Protected	196.09	
33 01 30 51-0244 EA 4" Coupling, 5" Middle Ring With Buna S Gasket, Protected	191.51	
33 01 30 51-0245 EA 4" Coupling, 7" Middle Ring With Buna S Gasket, Protected	193.92	
33 01 30 51-0246 EA 5" Coupling, 4" Middle Ring With Buna S Gasket, Protected	246.04	
33 01 30 51-0247 EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected	247.32	
33 01 30 51-0248 EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected	306.29	
33 01 30 51-0249 EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected	263.66	
33 01 30 51-0250 EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected	270.43	
33 01 30 51-0251 EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected	273.04	
33 01 30 51-0252 EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected	320.47	
33 01 30 51-0253 EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected	323.04	
33 01 30 51-0254 EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected	327.18	
33 01 30 51-0255 EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected	367.34	
33 01 30 51-0256 EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected	400.49	
33 01 30 51-0257 EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected	416.21	
33 01 30 51-0258 EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected	485.79	
33 01 30 51-0259 EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected	550.53	
33 01 30 51-0260 EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected	638.98	
33 01 30 51-0261 EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected	701.60	
33 01 30 51-0262 EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected	755.76	
33 01 30 51-0263 EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected	897.03	
33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected	947.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0265 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna N gasket, protected. Dresser style 38.		
33 01 30 51-0266 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	49.17	
33 01 30 51-0267 EA 3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	60.54	
33 01 30 51-0268 EA 1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	72.19	
33 01 30 51-0269 EA 1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	89.66	
33 01 30 51-0270 EA 2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	112.12	
33 01 30 51-0271 EA 2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	123.73	
33 01 30 51-0272 EA 2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	127.59	
33 01 30 51-0273 EA 3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	162.15	
33 01 30 51-0274 EA 3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	164.75	
33 01 30 51-0275 EA 3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	167.35	
33 01 30 51-0276 EA 4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	196.09	
33 01 30 51-0277 EA 4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	205.36	
33 01 30 51-0278 EA 4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	208.89	
33 01 30 51-0279 EA 5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	246.04	
33 01 30 51-0280 EA 5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	247.32	
33 01 30 51-0281 EA 5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	262.20	
33 01 30 51-0282 EA 6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	263.66	
33 01 30 51-0283 EA 6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	270.43	
33 01 30 51-0284 EA 6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	273.04	
33 01 30 51-0285 EA 8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	320.47	
33 01 30 51-0286 EA 8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	323.04	
33 01 30 51-0287 EA 8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	327.18	
33 01 30 51-0288 EA 10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	367.34	
33 01 30 51-0289 EA 10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	400.49	
33 01 30 51-0290 EA 12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	416.21	
33 01 30 51-0291 EA 12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	485.79	
33 01 30 51-0292 EA 14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	550.53	
33 01 30 51-0293 EA 16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	629.23	
33 01 30 51-0294 EA 18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	701.60	
33 01 30 51-0295 EA 20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	755.76	
33 01 30 51-0296 EA 22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	897.03	
33 01 30 51-0297 EA 24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	947.30	
33 01 30 51-0298 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes high temperature carded glass gasket, protected. Dresser style 38.		
33 01 30 51-0299 EA 3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	76.85	
33 01 30 51-0300 EA 1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	87.10	
33 01 30 51-0301 EA 1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	98.75	
33 01 30 51-0302 EA 2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	139.61	
33 01 30 51-0303 EA 2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	146.73	
33 01 30 51-0304 EA 2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	150.35	
33 01 30 51-0305 EA 3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	187.21	
33 01 30 51-0306 EA 3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	186.39	
33 01 30 51-0307 EA 4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	218.36	
33 01 30 51-0308 EA 4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	221.89	
33 01 30 51-0309 EA 5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	287.68	
33 01 30 51-0310 EA 5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	292.36	
33 01 30 51-0311 EA 6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	314.53	
33 01 30 51-0312 EA 6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	317.64	
33 01 30 51-0313 EA 8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	342.77	
33 01 30 51-0314 EA 8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	389.29	
33 01 30 51-0315 EA 8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	408.26	
33 01 30 51-0316 EA 10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	432.07	
33 01 30 51-0317 EA 10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	432.01	
33 01 30 51-0318 EA 12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	526.93	
33 01 30 51-0319 EA 12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	541.22	
33 01 30 51-0320 EA 14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	615.82	
33 01 30 51-0321 EA 16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	739.61	
33 01 30 51-0322 EA 18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	745.80	
33 01 30 51-0323 EA 20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	822.71	
33 01 30 51-0324 EA 22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	888.58	
33 01 30 51-0325 EA 24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	960.30	
33 01 30 51-0326 Temporary Bypass And Service Lines (33 01 30 51-0001)		
Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 51-0327 Temporary Water Service Lines (33 01 30 51-0326)		
Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 51-0328 LF 1/2" Temporary Service Hose With Fittings	2.73	
Note: Includes removal after use.		
33 01 30 51-0329 LF 3/4" Temporary Service Hose With Fittings	3.47	
Note: Includes removal after use.		
33 01 30 51-0330 LF 1" Temporary Service Hose With Fittings	4.02	
Note: Includes removal after use.		
33 01 30 51-0331 LF 1-1/2" Temporary Service Hose With Fittings	4.78	
Note: Includes removal after use.		
33 01 30 51-0332 LF 2" Temporary Service Hose With Fittings	5.86	
Note: Includes removal after use.		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0333 EA Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	307.69	
33 01 30 51-0334 Temporary Bypass Water Main Lines (33 01 30 51-0326) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 51-0335 LF 2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	6.08	
For >500 To 1,000, Deduct	-0.43	
For >1,000 To 5,000, Deduct	-0.86	
For >5,000, Deduct	-1.43	
33 01 30 51-0336 LF 4" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	7.87	
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 5,000, Deduct	-1.10	
For >5,000, Deduct	-1.83	
33 01 30 51-0337 LF 6" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	9.66	
For >500 To 1,000, Deduct	-0.64	
For >1,000 To 5,000, Deduct	-1.28	
For >5,000, Deduct	-2.14	
33 01 30 51-0338 LF 8" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	12.16	
For >500 To 1,000, Deduct	-0.77	
For >1,000 To 5,000, Deduct	-1.54	
For >5,000, Deduct	-2.56	
33 01 30 51-0339 Piping Protection For Temporary Water Line (33 01 30 51-0326)		
33 01 30 51-0340 LF Cold Mix For Temporary Pipe..... Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	2.36	
33 01 30 51-0341 Drill Meter Cover For Temporary Water Line (33 01 30 51-0326)		
33 01 30 51-0342 EA Drill Meter Cover For Temporary Bypass Pipe.....	13.19	
33 01 30 51-0343 Grind Offset Joint (33 01 30 51-0001)		
33 01 30 51-0344 EA 6" To 10", Grind Drop Offset Joint.....	324.68	
33 01 30 51-0345 EA >10" To 15", Grind Drop Offset Joint.....	432.91	
33 01 30 51-0346 EA >15" To 24", Grind Drop Offset Joint.....	541.14	
33 01 30 51-0347 EA >24" To 30", Grind Drop Offset Joint.....	649.37	
33 01 30 51-0348 Temporary Pipe Plugging (33 01 30 51-0001)		
33 01 30 51-0349 Gravity Bladder Pipe Plugging (33 01 30 51-0348) Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.		
33 01 30 51-0350 EA 3/4" Bladder Type Pipe Plug.....	62.29	
33 01 30 51-0351 EA 1" Bladder Type Pipe Plug.....	66.71	
33 01 30 51-0352 EA 1-1/4" Bladder Type Pipe Plug.....	72.33	
33 01 30 51-0353 EA 1-1/2" Bladder Type Pipe Plug.....	77.47	
33 01 30 51-0354 EA 2" Bladder Type Pipe Plug.....	82.36	
33 01 30 51-0355 EA 2-1/2" Bladder Type Pipe Plug.....	87.96	
33 01 30 51-0356 EA 3" Bladder Type Pipe Plug.....	95.37	
33 01 30 51-0357 EA 4" Bladder Type Pipe Plug.....	105.04	
33 01 30 51-0358 EA 5" Bladder Type Pipe Plug.....	113.75	
33 01 30 51-0359 EA 6" Bladder Type Pipe Plug.....	126.76	
33 01 30 51-0360 EA 8" Bladder Type Pipe Plug.....	140.83	
33 01 30 51-0361 EA 10" Bladder Type Pipe Plug.....	163.13	
33 01 30 51-0362 EA 12" Bladder Type Pipe Plug.....	193.33	
33 01 30 51-0363 EA 14" Bladder Type Pipe Plug.....	229.62	
33 01 30 51-0364 EA 16" Bladder Type Pipe Plug.....	276.43	
33 01 30 51-0365 EA 18" Bladder Type Pipe Plug.....	332.68	
33 01 30 51-0366 EA 20" Bladder Type Pipe Plug.....	397.98	
33 01 30 51-0367 EA 24" Bladder Type Pipe Plug.....	460.27	
33 01 30 51-0368 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0348) Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.		
33 01 30 51-0369 EA 2" Hydra Stop, Line Stopper.....	1,628.51	
33 01 30 51-0370 EA 2-1/2" Hydra Stop, Line Stopper.....	2,042.32	
33 01 30 51-0371 EA 3" Hydra Stop, Line Stopper.....	2,496.34	
33 01 30 51-0372 EA 4" Hydra Stop, Line Stopper.....	3,056.10	
33 01 30 51-0373 EA 5" Hydra Stop, Line Stopper.....	3,502.02	
33 01 30 51-0374 EA 6" Hydra Stop, Line Stopper.....	4,259.93	
33 01 30 51-0375 EA 8" Hydra Stop, Line Stopper.....	4,705.84	
33 01 30 51-0376 EA 10" Hydra Stop, Line Stopper.....	5,463.72	
33 01 30 51-0377 EA 12" Hydra Stop, Line Stopper.....	6,221.62	
33 01 30 51-0378 EA 14" Hydra Stop, Line Stopper.....	7,012.98	



		Utilities	33	
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0379	EA	16" Hydra Stop, Line Stopper	8,005.31	
33 01 30 51-0380	EA	18" Hydra Stop, Line Stopper	9,098.07	
33 01 30 51-0381	EA	20" Hydra Stop, Line Stopper	10,659.55	
33 01 30 51-0382 Aluminum Expansion Plugs (33 01 30 51-0348)				
Note: For use with PVC, clay Or cast iron drainage pipe.				
33 01 30 51-0383	EA	3" Pipe Plug	46.98	
33 01 30 51-0384	EA	4" Pipe Plug	64.77	
33 01 30 51-0385	EA	5" Pipe Plug	72.69	
33 01 30 51-0386	EA	6" Pipe Plug	106.60	
33 01 30 51-0387	EA	8" Pipe Plug	109.94	
33 01 30 51-0388	EA	10" Pipe Plug	135.70	
33 01 30 51-0389	EA	12" Pipe Plug	180.23	
33 01 30 51-0390	EA	14" Pipe Plug	284.59	
33 01 30 51-0391	EA	15" Pipe Plug	307.61	
33 01 30 51-0392 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)				
33 01 30 51-0393	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	145.08	
33 01 30 51-0394	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	145.26	
33 01 30 51-0395	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long	145.70	
33 01 30 51-0396	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	146.14	
33 01 30 51-0397	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	146.36	
33 01 30 51-0398	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long	147.02	
33 01 30 51-0399	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	147.68	
33 01 30 51-0400	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long	148.56	
33 01 30 51-0401	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long	266.78	
33 01 30 51-0402	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long	269.64	
33 01 30 51-0403	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long	271.63	
33 01 30 51-0404	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long	292.58	
33 01 30 51-0405	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long	295.23	
33 01 30 51-0406	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long	297.00	
33 01 30 51-0407	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long	299.64	
33 01 30 51-0408	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long	302.29	
33 01 30 51-0409	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long	305.82	
33 01 30 51-0410	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long	311.99	
33 01 30 61 Sewer and Pipe Joint Sealing (33 01 30)				
33 01 30 61-0001 Joint Air Test (33 01 30 61)				
33 01 30 61-0002	EA	4" To 8", Joint Air Test	81.31	
33 01 30 61-0003	EA	10" To 15", Joint Air Test	94.86	
33 01 30 61-0004	EA	>15" To 21", Joint Air Test	108.41	
33 01 30 61-0005	EA	>21" To 24", Joint Air Test	135.51	
33 01 30 61-0006	EA	>24" To 27", Joint Air Test	162.61	
33 01 30 61-0007	EA	>27" To 36", Joint Air Test	189.71	
33 01 30 61-0008 Joint Seal And Joint Air Retest (33 01 30 61)				
Note: Includes grout.				
33 01 30 61-0009	EA	4" Joint Seal And Joint Air Retest	234.88	
Note: Includes up to 1 gallon of grout.				
33 01 30 61-0010	EA	6" Joint Seal And Joint Air Retest	261.98	
Note: Includes 1 gallon of grout.				
33 01 30 61-0011	EA	8" Joint Seal And Joint Air Retest	307.13	
Note: Includes 2 gallons of grout.				
33 01 30 61-0012	EA	10" Joint Seal And Joint Air Retest	343.27	
Note: Includes 2.5 gallons of grout.				
33 01 30 61-0013	EA	12" Joint Seal And Joint Air Retest	379.40	
Note: Includes 3 gallons of grout.				
33 01 30 61-0014	EA	15" Joint Seal And Joint Air Retest	447.14	
Note: Includes 3.75 gallons of grout.				
33 01 30 61-0015	EA	18" Joint Seal And Joint Air Retest	514.88	
Note: Includes 4.5 gallons of grout.				
33 01 30 61-0016	EA	21" Joint Seal And Joint Air Retest	582.64	
Note: Includes 5.25 gallons of grout.				
33 01 30 61-0017	EA	24" Joint Seal And Joint Air Retest	677.49	
Note: Includes 6 gallons of grout.				
33 01 30 61-0018	EA	27" Joint Seal And Joint Air Retest	772.33	
Note: Includes 6.75 gallons of grout.				
33 01 30 61-0019	EA	30" Joint Seal And Joint Air Retest	894.28	
Note: Includes 7.5 gallons of grout.				
33 01 30 61-0020	EA	36" Joint Seal And Joint Air Retest	1,029.77	
Note: Includes 9 gallons of grout.				
33 01 30 61-0021	GAL	Extra Grout Per Joint	126.47	
Note: For extra grout per joint required over listed amount.				
33 01 30 79 Relining Pipelines (33 01 30)				

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0001 Relining Underground Pipelines (33 01 30 79) Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines.....	4,052.68	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines	1,621.07	
33 01 30 79-0005 EA Mixing Truck And Refrigeration For 54" To 72" Cured In-Place Pipe.....	26,375.53	
Note: Need to mix wet material in bag prior to installation. Not needed for small sizes.		
33 01 30 79-0006 Lining Pipe With Cured In-Place Pipe (33 01 30 79-0001) Note: Cured in-place thermosetting resin pipe and resin impregnated tube.		
33 01 30 79-0007 LF 6mm Lining 6" Pipe With Cured In-Place Pipe (CIPP)	25.38	
For Up To 75, Add	17.23	
For >75 To 150, Add	8.62	
For >500 To 1,000, Deduct	-0.69	
For >1,000 To 2,000, Deduct	-1.34	
For >2,000 To 5,000, Deduct	-2.08	
For >5,000, Deduct	-3.01	
For 7.5mm Liner Thickness, Add	4.01	
For 9mm Liner Thickness, Add	8.10	
33 01 30 79-0008 LF 6mm Lining 8" Pipe With Cured In-Place Pipe (CIPP)	28.05	
For Up To 75, Add	18.78	
For >75 To 150, Add	9.39	
For >500 To 1,000, Deduct	-0.76	
For >1,000 To 2,000, Deduct	-1.48	
For >2,000 To 5,000, Deduct	-2.29	
For >5,000, Deduct	-3.31	
For 7.5mm Liner Thickness, Add	4.48	
For 9mm Liner Thickness, Add	9.06	
33 01 30 79-0009 LF 6mm Lining 10" Pipe With Cured In-Place Pipe (CIPP)	31.36	
For Up To 75, Add	20.65	
For >75 To 150, Add	10.33	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.64	
For >2,000 To 5,000, Deduct	-2.55	
For >5,000, Deduct	-3.69	
For 7.5mm Liner Thickness, Add	5.08	
For 9mm Liner Thickness, Add	10.26	
33 01 30 79-0010 LF 6mm Lining 12" Pipe With Cured In-Place Pipe (CIPP)	34.90	
For Up To 75, Add	22.79	
For >75 To 150, Add	11.39	
For >500 To 1,000, Deduct	-0.94	
For >1,000 To 2,000, Deduct	-1.82	
For >2,000 To 5,000, Deduct	-2.82	
For >5,000, Deduct	-4.10	
For 7.5mm Liner Thickness, Add	5.69	
For 9mm Liner Thickness, Add	11.50	
33 01 30 79-0011 LF 6mm Lining 15" Pipe With Cured In-Place Pipe (CIPP)	40.05	
For Up To 75, Add	25.96	
For >75 To 150, Add	12.98	
For >500 To 1,000, Deduct	-1.08	
For >1,000 To 2,000, Deduct	-2.09	
For >2,000 To 5,000, Deduct	-3.23	
For >5,000, Deduct	-4.70	
For 7.5mm Liner Thickness, Add	6.56	
For 9mm Liner Thickness, Add	13.26	
For 10.5mm Liner Thickness, Add	19.88	
For 12mm Liner Thickness, Add	26.45	
For 13.5mm Liner Thickness, Add	33.11	
For 15mm Liner Thickness, Add	39.67	
33 01 30 79-0012 LF 6mm Lining 18" Pipe With Cured In-Place Pipe (CIPP)	46.75	
For Up To 75, Add	29.62	
For >75 To 150, Add	14.81	
For >500 To 1,000, Deduct	-1.25	
For >1,000 To 2,000, Deduct	-2.42	
For >2,000 To 5,000, Deduct	-3.74	
For >5,000, Deduct	-5.45	
For 7.5mm Liner Thickness, Add	7.79	
For 9mm Liner Thickness, Add	15.75	
For 10.5mm Liner Thickness, Add	23.60	
For 12mm Liner Thickness, Add	31.41	
For 13.5mm Liner Thickness, Add	39.32	
For 15mm Liner Thickness, Add	47.11	



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0013	LF		6mm Lining 21" Pipe With Cured In-Place Pipe (CIPP)	52.30	
			For Up To 75, Add	32.42	
			For >75 To 150, Add	16.21	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000 To 2,000, Deduct	-2.68	
			For >2,000 To 5,000, Deduct	-4.15	
			For >5,000, Deduct	-6.07	
			For 7.5mm Liner Thickness, Add	8.85	
			For 9mm Liner Thickness, Add	17.90	
			For 10.5mm Liner Thickness, Add	26.82	
			For 12mm Liner Thickness, Add	35.69	
			For 13.5mm Liner Thickness, Add	44.69	
			For 15mm Liner Thickness, Add	53.54	
			For 16.5mm Liner Thickness, Add	63.54	
			For 18mm Liner Thickness, Add	72.61	
			For 19.5mm Liner Thickness, Add	81.97	
			For 21mm Liner Thickness, Add	90.96	
			For 22.5mm Liner Thickness, Add	100.03	
			For 24mm Liner Thickness, Add	109.14	
			For 27mm Liner Thickness, Add	127.37	
33 01 30 79-0014	LF		6mm Lining 24" Pipe With Cured In-Place Pipe (CIPP)	57.08	
			For Up To 75, Add	35.36	
			For >75 To 150, Add	17.68	
			For >500 To 1,000, Deduct	-1.51	
			For >1,000 To 2,000, Deduct	-2.93	
			For >2,000 To 5,000, Deduct	-4.53	
			For >5,000, Deduct	-6.63	
			For 7.5mm Liner Thickness, Add	9.67	
			For 9mm Liner Thickness, Add	19.54	
			For 10.5mm Liner Thickness, Add	29.28	
			For 12mm Liner Thickness, Add	38.97	
			For 13.5mm Liner Thickness, Add	48.79	
			For 15mm Liner Thickness, Add	58.45	
			For 16.5mm Liner Thickness, Add	69.37	
			For 18mm Liner Thickness, Add	79.28	
			For 19.5mm Liner Thickness, Add	89.49	
			For 21mm Liner Thickness, Add	99.31	
			For 22.5mm Liner Thickness, Add	109.21	
			For 24mm Liner Thickness, Add	119.16	
			For 27mm Liner Thickness, Add	139.06	
33 01 30 79-0015	LF		6mm Lining 27" Pipe With Cured In-Place Pipe (CIPP)	64.18	
			For Up To 75, Add	39.17	
			For >75 To 150, Add	19.59	
			For >500 To 1,000, Deduct	-1.69	
			For >1,000 To 2,000, Deduct	-3.28	
			For >2,000 To 5,000, Deduct	-5.07	
			For >5,000, Deduct	-7.43	
			For 7.5mm Liner Thickness, Add	10.98	
			For 9mm Liner Thickness, Add	22.20	
			For 10.5mm Liner Thickness, Add	33.27	
			For 12mm Liner Thickness, Add	44.27	
			For 13.5mm Liner Thickness, Add	55.43	
			For 15mm Liner Thickness, Add	66.41	
			For 16.5mm Liner Thickness, Add	78.81	
			For 18mm Liner Thickness, Add	90.06	
			For 19.5mm Liner Thickness, Add	101.67	
			For 21mm Liner Thickness, Add	112.82	
			For 22.5mm Liner Thickness, Add	124.07	
			For 24mm Liner Thickness, Add	135.37	
			For 27mm Liner Thickness, Add	157.98	
33 01 30 79-0016	LF		6mm Lining 30" Pipe With Cured In-Place Pipe (CIPP)	71.31	
			For Up To 75, Add	43.53	
			For >75 To 150, Add	21.76	
			For >500 To 1,000, Deduct	-1.88	
			For >1,000 To 2,000, Deduct	-3.64	
			For >2,000 To 5,000, Deduct	-5.63	
			For >5,000, Deduct	-8.26	
			For 7.5mm Liner Thickness, Add	12.20	
			For 9mm Liner Thickness, Add	24.67	
			For 10.5mm Liner Thickness, Add	36.97	
			For 12mm Liner Thickness, Add	49.19	
			For 13.5mm Liner Thickness, Add	61.59	
			For 15mm Liner Thickness, Add	73.79	
			For 16.5mm Liner Thickness, Add	87.56	
			For 18mm Liner Thickness, Add	100.07	
			For 19.5mm Liner Thickness, Add	112.97	
			For 21mm Liner Thickness, Add	125.35	
			For 22.5mm Liner Thickness, Add	137.86	
			For 24mm Liner Thickness, Add	150.41	
			For 27mm Liner Thickness, Add	175.54	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017 LF 6mm Lining 36" Pipe With Cured In-Place Pipe (CIPP)	86.64	
For Up To 75, Add	50.26	
For >75 To 150, Add	25.13	
For >500 To 1,000, Deduct	-2.24	
For >1,000 To 2,000, Deduct	-4.35	
For >2,000 To 5,000, Deduct	-6.72	
For >5,000, Deduct	-9.93	
For 7.5mm Liner Thickness, Add	15.33	
For 9mm Liner Thickness, Add	30.99	
For 10.5mm Liner Thickness, Add	46.44	
For 12mm Liner Thickness, Add	61.80	
For 13.5mm Liner Thickness, Add	77.37	
For 15mm Liner Thickness, Add	92.70	
For 16.5mm Liner Thickness, Add	110.01	
For 18mm Liner Thickness, Add	125.72	
For 19.5mm Liner Thickness, Add	141.93	
For 21mm Liner Thickness, Add	157.49	
For 22.5mm Liner Thickness, Add	173.20	
For 24mm Liner Thickness, Add	188.97	
For 27mm Liner Thickness, Add	220.54	
33 01 30 79-0018 LF 13.5mm Lining 42" Pipe With Cured In-Place Pipe (CIPP)	193.64	
For Up To 75, Add	76.36	
For >75 To 150, Add	38.18	
For >500 To 1,000, Deduct	-4.45	
For >1,000 To 2,000, Deduct	-8.76	
For >2,000 To 5,000, Deduct	-13.36	
For >5,000, Deduct	-20.81	
For 15mm Liner Thickness, Add	18.30	
For 16.5mm Liner Thickness, Add	38.62	
For 18mm Liner Thickness, Add	58.23	
For 19.5mm Liner Thickness, Add	76.81	
For 21mm Liner Thickness, Add	95.55	
For 22.5mm Liner Thickness, Add	114.23	
For 24mm Liner Thickness, Add	133.30	
For 27mm Liner Thickness, Add	173.86	
33 01 30 79-0019 LF 13.5mm Lining 48" Pipe With Cured In-Place Pipe (CIPP)	221.99	
For Up To 75, Add	88.31	
For >75 To 150, Add	44.16	
For >500 To 1,000, Deduct	-5.12	
For >1,000 To 2,000, Deduct	-10.06	
For >2,000 To 5,000, Deduct	-15.35	
For >5,000, Deduct	-23.89	
For 15mm Liner Thickness, Add	20.91	
For 16.5mm Liner Thickness, Add	44.14	
For 18mm Liner Thickness, Add	66.55	
For 19.5mm Liner Thickness, Add	87.78	
For 21mm Liner Thickness, Add	109.20	
For 22.5mm Liner Thickness, Add	130.54	
For 24mm Liner Thickness, Add	152.34	
For 27mm Liner Thickness, Add	198.69	
33 01 30 79-0020 LF 15mm Lining 54" Pipe With Cured In-Place Pipe (CIPP)	275.84	
For Up To 75, Add	107.84	
For >75 To 150, Add	53.92	
For >500 To 1,000, Deduct	-6.33	
For >1,000 To 2,000, Deduct	-12.45	
For >2,000 To 5,000, Deduct	-18.98	
For >5,000, Deduct	-29.61	
For 16.5mm Liner Thickness, Add	23.56	
For 18mm Liner Thickness, Add	47.30	
For 19.5mm Liner Thickness, Add	70.88	
For 21mm Liner Thickness, Add	94.62	
For 22.5mm Liner Thickness, Add	118.32	
For 24mm Liner Thickness, Add	142.11	
For 27mm Liner Thickness, Add	189.71	
33 01 30 79-0021 LF 18mm Lining 60" Pipe With Cured In-Place Pipe (CIPP)	369.08	
For Up To 75, Add	145.65	
For >75 To 150, Add	72.83	
For >500 To 1,000, Deduct	-8.49	
For >1,000 To 2,000, Deduct	-16.70	
For >2,000 To 5,000, Deduct	-25.46	
For >5,000, Deduct	-39.67	
For 19.5mm Liner Thickness, Add	26.17	
For 21mm Liner Thickness, Add	52.56	
For 22.5mm Liner Thickness, Add	78.86	
For 24mm Liner Thickness, Add	105.26	
For 27mm Liner Thickness, Add	158.13	
33 01 30 79-0022 LF 18mm Lining 66" Pipe With Cured In-Place Pipe (CIPP)	432.12	
For Up To 75, Add	199.32	
For >75 To 150, Add	99.66	
For >500 To 1,000, Deduct	-10.38	
For >1,000 To 2,000, Deduct	-20.32	
For >2,000 To 5,000, Deduct	-31.14	
For >5,000, Deduct	-47.55	
For 19.5mm Liner Thickness, Add	28.80	
For 21mm Liner Thickness, Add	57.83	
For 22.5mm Liner Thickness, Add	86.77	
For 24mm Liner Thickness, Add	115.81	
For 27mm Liner Thickness, Add	173.99	



		Utilities	33	
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		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 79-0023	LF 18mm Lining 72" Pipe With Cured In-Place Pipe (CIPP)	528.71		
	For Up To 75, Add	303.32		
	For >75 To 150, Add	151.66		
	For >500 To 1,000, Deduct	-13.61		
	For >1,000 To 2,000, Deduct	-26.47		
	For >2,000 To 5,000, Deduct	-40.84		
	For >5,000, Deduct	-60.47		
	For 19.5mm Liner Thickness, Add	31.42		
	For 21mm Liner Thickness, Add	63.10		
	For 22.5mm Liner Thickness, Add	94.67		
	For 24mm Liner Thickness, Add	126.36		
	For 27mm Liner Thickness, Add	189.83		
33 01 30 79-0024	Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)			
33 01 30 79-0025	LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	21.62		
	For DR 26 Pipe Liner, Add	3.23		
	For >500 To 1,000, Deduct	-0.65		
	For >1,000 To 2,000, Deduct	-1.30		
	For >2,000, Deduct	-2.61		
33 01 30 79-0026	LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	26.91		
	For DR 26 Pipe Liner, Add	4.39		
	For DR 35 Pipe Liner, Deduct	-2.20		
	For >500 To 1,000, Deduct	-0.70		
	For >1,000 To 2,000, Deduct	-1.40		
	For >2,000, Deduct	-2.81		
33 01 30 79-0027	LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	28.01		
	For DR 26 Pipe Liner, Add	4.47		
	For DR 35 Pipe Liner, Deduct	-2.24		
	For >500 To 1,000, Deduct	-0.76		
	For >1,000 To 2,000, Deduct	-1.52		
	For >2,000, Deduct	-3.04		
33 01 30 79-0028	LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	37.89		
	For DR 26 Pipe Liner, Add	6.71		
	For DR 35 Pipe Liner, Deduct	-3.35		
	For DR 41 Pipe Liner, Deduct	-6.71		
	For >500 To 1,000, Deduct	-0.83		
	For >1,000 To 2,000, Deduct	-1.66		
	For >2,000, Deduct	-3.32		
33 01 30 79-0029	LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	51.42		
	For DR 26 Pipe Liner, Add	9.82		
	For DR 35 Pipe Liner, Deduct	-4.91		
	For DR 41 Pipe Liner, Deduct	-9.82		
	For >500 To 1,000, Deduct	-0.91		
	For >1,000 To 2,000, Deduct	-1.82		
	For >2,000, Deduct	-3.65		
33 01 30 79-0030	LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	69.09		
	For DR 35 Pipe Liner, Deduct	-6.91		
	For DR 41 Pipe Liner, Deduct	-13.82		
	For >500 To 1,000, Deduct	-1.04		
	For >1,000 To 2,000, Deduct	-2.07		
	For >2,000, Deduct	-4.14		
33 01 30 79-0031	LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	95.74		
	For DR 41 Pipe Liner, Deduct	-8.02		
	For DR 50 Pipe Liner, Deduct	-16.03		
	For >500 To 1,000, Deduct	-1.17		
	For >1,000 To 2,000, Deduct	-2.34		
	For >2,000, Deduct	-4.68		
33 01 30 79-0032	LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	107.93		
	For DR 50 Pipe Liner, Deduct	-13.66		
	For DR 55 Pipe Liner, Deduct	-22.76		
	For >500 To 1,000, Deduct	-1.27		
	For >1,000 To 2,000, Deduct	-2.53		
	For >2,000, Deduct	-5.07		
33 01 30 79-0033	LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	130.60		
	For DR 60 Pipe Liner, Deduct	-16.83		
	For >500 To 1,000, Deduct	-1.38		
	For >1,000 To 2,000, Deduct	-2.76		
	For >2,000, Deduct	-5.53		
33 01 30 79-0034	Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)			
33 01 30 79-0035	LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	22.83		
	For >500 To 1,000, Deduct	-0.65		
	For >1,000 To 2,000, Deduct	-1.30		
	For >2,000, Deduct	-2.61		
	For DR 26 Pipe Liner, Add	3.54		
33 01 30 79-0036	LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	26.91		
	For >500 To 1,000, Deduct	-0.70		
	For >1,000 To 2,000, Deduct	-1.40		
	For >2,000, Deduct	-2.81		
	For DR 26 Pipe Liner, Add	4.39		
	For DR 35 Pipe Liner, Deduct	-2.20		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0037 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	29.64	
For >500 To 1,000, Deduct	-0.76	
For >1,000 To 2,000, Deduct	-1.52	
For >2,000, Deduct	-3.04	
For DR 26 Pipe Liner, Add	4.88	
For DR 35 Pipe Liner, Deduct	-2.44	
33 01 30 79-0038 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	40.32	
For >500 To 1,000, Deduct	-0.83	
For >1,000 To 2,000, Deduct	-1.66	
For >2,000, Deduct	-3.32	
For DR 26 Pipe Liner, Add	7.32	
For DR 35 Pipe Liner, Deduct	-3.66	
For DR 41 Pipe Liner, Deduct	-7.32	
33 01 30 79-0039 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	55.08	
For >500 To 1,000, Deduct	-0.91	
For >1,000 To 2,000, Deduct	-1.82	
For >2,000, Deduct	-3.65	
For DR 26 Pipe Liner, Add	10.73	
For DR 35 Pipe Liner, Deduct	-5.37	
For DR 41 Pipe Liner, Deduct	-10.73	
33 01 30 79-0040 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	74.29	
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 2,000, Deduct	-2.07	
For >2,000, Deduct	-4.14	
For DR 35 Pipe Liner, Deduct	-7.56	
For DR 41 Pipe Liner, Deduct	-15.12	
33 01 30 79-0041 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	103.38	
For >500 To 1,000, Deduct	-1.17	
For >1,000 To 2,000, Deduct	-2.34	
For >2,000, Deduct	-4.68	
For DR 41 Pipe Liner, Deduct	-8.78	
For DR 50 Pipe Liner, Deduct	-17.56	
33 01 30 79-0042 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	116.39	
For >500 To 1,000, Deduct	-1.27	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000, Deduct	-5.07	
For DR 50 Pipe Liner, Deduct	-14.93	
For DR 55 Pipe Liner, Deduct	-24.88	
33 01 30 79-0043 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	141.33	
For >500 To 1,000, Deduct	-1.38	
For >1,000 To 2,000, Deduct	-2.76	
For >2,000, Deduct	-5.53	
For DR 60 Pipe Liner, Deduct	-18.44	
33 01 30 79-0044 Lining Pipe With Rib Loc (33 01 30 79-0001)		
33 01 30 79-0045 LF Lining 6" Pipe With Rib Loc.....	27.65	
For >500 To 1,000, Deduct	-0.74	
For >1,000 To 2,000, Deduct	-1.43	
For >2,000 To 5,000, Deduct	-2.22	
For >5,000, Deduct	-3.23	
33 01 30 79-0046 LF Lining 8" Pipe With Rib Loc.....	30.69	
For >500 To 1,000, Deduct	-0.82	
For >1,000 To 2,000, Deduct	-1.58	
For >2,000 To 5,000, Deduct	-2.45	
For >5,000, Deduct	-3.58	
33 01 30 79-0047 LF Lining 10" Pipe With Rib Loc.....	41.77	
For >500 To 1,000, Deduct	-1.06	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000 To 5,000, Deduct	-3.17	
For >5,000, Deduct	-4.73	
33 01 30 79-0048 LF Lining 12" Pipe With Rib Loc.....	52.70	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000 To 5,000, Deduct	-3.89	
For >5,000, Deduct	-5.88	
33 01 30 79-0049 LF Lining 15" Pipe With Rib Loc.....	69.55	
For >500 To 1,000, Deduct	-1.67	
For >1,000 To 2,000, Deduct	-3.27	
For >2,000 To 5,000, Deduct	-5.00	
For >5,000, Deduct	-7.65	
33 01 30 79-0050 LF Lining 18" Pipe With Rib Loc.....	89.17	
For >500 To 1,000, Deduct	-2.10	
For >1,000 To 2,000, Deduct	-4.11	
For >2,000 To 5,000, Deduct	-6.29	
For >5,000, Deduct	-9.70	
33 01 30 79-0051 LF Lining 21" Pipe With Rib Loc.....	111.32	
For >500 To 1,000, Deduct	-2.56	
For >1,000 To 2,000, Deduct	-5.04	
For >2,000 To 5,000, Deduct	-7.69	
For >5,000, Deduct	-11.98	
33 01 30 79-0052 LF Lining 24" Pipe With Rib Loc.....	137.13	
For >500 To 1,000, Deduct	-3.11	
For >1,000 To 2,000, Deduct	-6.13	
For >2,000 To 5,000, Deduct	-9.33	
For >5,000, Deduct	-14.63	



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		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0053 LF Lining 27" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	163.83 -3.68 -7.26 -11.05 -17.40	
33 01 30 79-0054 LF Lining 30" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	193.99 -4.33 -8.55 -12.99 -20.52	
33 01 30 79-0055 LF Lining 36" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	246.54 -5.44 -10.75 -16.31 -25.92	
33 01 30 79-0056 LF Lining 42" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	306.39 -6.71 -13.27 -20.12 -32.09	
33 01 30 79-0057 LF Lining 48" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	374.62 -8.17 -16.17 -24.50 -39.15	
33 01 30 79-0058 LF Lining 54" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	443.14 -9.67 -19.14 -29.02 -46.34	
33 01 30 79-0059 LF Lining 60" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	524.99 -11.61 -22.93 -34.82 -55.26	
33 01 30 79-0060 LF Lining 66" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	629.38 -14.32 -28.21 -42.97 -67.28	
33 01 30 79-0061 LF Lining 72" Pipe With Rib Loc For >500 To 1,000, Deduct For >1,000 To 2,000, Deduct For >2,000 To 5,000, Deduct For >5,000, Deduct	773.43 -18.51 -36.26 -55.52 -84.94	
33 01 30 79-0062 Laterals; Cutting, Grouting And Reinstatement (33 01 30 79-0001)		
33 01 30 79-0063 Lateral Reinstatement/Reconnection (33 01 30 79-0062)		
33 01 30 79-0064 EA Cut Liner For Laterals, 4" (Robotic)	400.44	
33 01 30 79-0065 EA Cut Liner For Laterals, 6" (Robotic)	432.91	
33 01 30 79-0066 EA Cut Liner For Laterals, 8" (Robotic)	487.02	
33 01 30 79-0067 Grout Lateral Service (33 01 30 79-0062)		
33 01 30 79-0068 Grout Lateral Service - Bladder (33 01 30 79-0067)		
33 01 30 79-0069 EA Grout 4" Lateral Service - Bladder	451.69	
33 01 30 79-0070 EA Grout 6" Lateral Service - Bladder	514.92	
33 01 30 79-0071 EA Grout 8" Lateral Service - Bladder	578.15	
33 01 30 79-0072 Grout Lateral Service - Robotic Trowel Application (33 01 30 79-0067)		
33 01 30 79-0073 EA Grout 4" To 8" Lateral Service - Robotic Trowel Application.....	460.73	
33 01 30 79-0074 Lateral T-Liner (33 01 30 79-0062) Note: As manufactured by LMK.		
33 01 30 79-0075 EA 4" Lateral T-Liner	530.79	
33 01 30 79-0076 EA 6" Lateral T-Liner	588.71	
33 01 30 79-0077 EA 8" Lateral T-Liner	679.05	
33 01 30 79-0078 Lining Lateral Pipe (33 01 30 79-0062)		
33 01 30 79-0079 Lining Lateral Pipe (33 01 30 79-0078)		
33 01 30 79-0080 LF 6mm Lining 4" To 6" Lateral Pipe With Cured In-Place Pipe (CIPP)..... For 7.5mm, Add For 9 mm, Add	33.40 4.01 8.10	
33 01 30 79-0081 Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 79-0001) Note: Two part structural polyurethane.		

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 79-0082	Mobilization And Setup For Spray Applied Structural Polyurethane Lining ⁽³³⁾			
33 01 30 79-0083	EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining ^(01 30 79-0081)			1,499.67
33 01 30 79-0084	Lining Pipe, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			
	Note: Two part structural polyurethane.			
33 01 30 79-0085	LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			35.62
	For Up To 75, Add		7.93	
	For >75 To 150, Add		3.56	
	For >500 To 1,000, Deduct		-1.04	
	For >1,000 To 2,000, Deduct		-1.99	
	For >2,000 To 5,000, Deduct		-3.11	
	For >5,000, Deduct		-4.37	
33 01 30 79-0086	LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			41.56
	For Up To 75, Add		9.26	
	For >75 To 150, Add		4.16	
	For >500 To 1,000, Deduct		-1.21	
	For >1,000 To 2,000, Deduct		-2.32	
	For >2,000 To 5,000, Deduct		-3.63	
	For >5,000, Deduct		-5.10	
33 01 30 79-0087	LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			47.49
	For Up To 75, Add		10.58	
	For >75 To 150, Add		4.75	
	For >500 To 1,000, Deduct		-1.38	
	For >1,000 To 2,000, Deduct		-2.65	
	For >2,000 To 5,000, Deduct		-4.14	
	For >5,000, Deduct		-5.83	
33 01 30 79-0088	LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			53.43
	For Up To 75, Add		11.90	
	For >75 To 150, Add		5.34	
	For >500 To 1,000, Deduct		-1.55	
	For >1,000 To 2,000, Deduct		-2.99	
	For >2,000 To 5,000, Deduct		-4.66	
	For >5,000, Deduct		-6.56	
33 01 30 79-0089	LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			59.36
	For Up To 75, Add		13.22	
	For >75 To 150, Add		5.94	
	For >500 To 1,000, Deduct		-1.73	
	For >1,000 To 2,000, Deduct		-3.32	
	For >2,000 To 5,000, Deduct		-5.18	
	For >5,000, Deduct		-7.28	
33 01 30 79-0090	LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			65.29
	For Up To 75, Add		14.54	
	For >75 To 150, Add		6.53	
	For >500 To 1,000, Deduct		-1.90	
	For >1,000 To 2,000, Deduct		-3.65	
	For >2,000 To 5,000, Deduct		-5.70	
	For >5,000, Deduct		-8.01	
33 01 30 79-0091	LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			71.23
	For Up To 75, Add		15.86	
	For >75 To 150, Add		7.12	
	For >500 To 1,000, Deduct		-2.07	
	For >1,000 To 2,000, Deduct		-3.98	
	For >2,000 To 5,000, Deduct		-6.21	
	For >5,000, Deduct		-8.74	
33 01 30 79-0092	LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			77.16
	For Up To 75, Add		17.18	
	For >75 To 150, Add		7.72	
	For >500 To 1,000, Deduct		-2.24	
	For >1,000 To 2,000, Deduct		-4.31	
	For >2,000 To 5,000, Deduct		-6.73	
	For >5,000, Deduct		-9.47	
33 01 30 79-0093	LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			83.10
	For Up To 75, Add		18.51	
	For >75 To 150, Add		8.31	
	For >500 To 1,000, Deduct		-2.42	
	For >1,000 To 2,000, Deduct		-4.64	
	For >2,000 To 5,000, Deduct		-7.25	
	For >5,000, Deduct		-10.20	
33 01 30 79-0094	LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			89.04
	For Up To 75, Add		19.83	
	For >75 To 150, Add		8.90	
	For >500 To 1,000, Deduct		-2.59	
	For >1,000 To 2,000, Deduct		-4.98	
	For >2,000 To 5,000, Deduct		-7.77	
	For >5,000, Deduct		-10.93	
33 01 30 79-0095	LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane ^(33 01 30 79-0081)			94.98
	For Up To 75, Add		21.15	
	For >75 To 150, Add		9.50	
	For >500 To 1,000, Deduct		-2.76	
	For >1,000 To 2,000, Deduct		-5.31	
	For >2,000 To 5,000, Deduct		-8.29	
	For >5,000, Deduct		-11.66	



		Utilities	33	33
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 01 30 79-0096	LF	102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	100.92	
		For Up To 75, Add	22.48	
		For >75 To 150, Add	10.09	
		For >500 To 1,000, Deduct	-2.94	
		For >1,000 To 2,000, Deduct	-5.64	
		For >2,000 To 5,000, Deduct	-8.81	
		For >5,000, Deduct	-12.38	
33 01 30 79-0097	LF	108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	106.85	
		For Up To 75, Add	23.80	
		For >75 To 150, Add	10.69	
		For >500 To 1,000, Deduct	-3.11	
		For >1,000 To 2,000, Deduct	-5.97	
		For >2,000 To 5,000, Deduct	-9.32	
		For >5,000, Deduct	-13.11	
33 01 30 79-0098	LF	114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	112.79	
		For Up To 75, Add	25.12	
		For >75 To 150, Add	11.28	
		For >500 To 1,000, Deduct	-3.28	
		For >1,000 To 2,000, Deduct	-6.30	
		For >2,000 To 5,000, Deduct	-9.84	
		For >5,000, Deduct	-13.84	
33 01 30 79-0099	LF	120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	118.72	
		For Up To 75, Add	26.44	
		For >75 To 150, Add	11.87	
		For >500 To 1,000, Deduct	-3.45	
		For >1,000 To 2,000, Deduct	-6.64	
		For >2,000 To 5,000, Deduct	-10.36	
		For >5,000, Deduct	-14.57	
33 01 30 79-0100	SF	Structure Lining, Spray Applied With 100 mil Structural Polyurethane	3.78	
33 01 30 79-0101 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 79-0081)				
Note: Two part structural polyurethane.				
33 01 30 79-0102	LF	36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	46.21	
		For Up To 75, Add	10.09	
		For >75 To 150, Add	4.62	
		For >500 To 1,000, Deduct	-1.26	
		For >1,000 To 2,000, Deduct	-2.44	
		For >2,000 To 5,000, Deduct	-3.79	
		For >5,000, Deduct	-5.47	
33 01 30 79-0103	LF	42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	53.90	
		For Up To 75, Add	11.77	
		For >75 To 150, Add	5.39	
		For >500 To 1,000, Deduct	-1.48	
		For >1,000 To 2,000, Deduct	-2.85	
		For >2,000 To 5,000, Deduct	-4.43	
		For >5,000, Deduct	-6.38	
33 01 30 79-0104	LF	48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	61.61	
		For Up To 75, Add	13.46	
		For >75 To 150, Add	6.16	
		For >500 To 1,000, Deduct	-1.69	
		For >1,000 To 2,000, Deduct	-3.26	
		For >2,000 To 5,000, Deduct	-5.06	
		For >5,000, Deduct	-7.30	
33 01 30 79-0105	LF	54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	69.30	
		For Up To 75, Add	15.14	
		For >75 To 150, Add	6.93	
		For >500 To 1,000, Deduct	-1.90	
		For >1,000 To 2,000, Deduct	-3.67	
		For >2,000 To 5,000, Deduct	-5.69	
		For >5,000, Deduct	-8.21	
33 01 30 79-0106	LF	60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	77.01	
		For Up To 75, Add	16.82	
		For >75 To 150, Add	7.70	
		For >500 To 1,000, Deduct	-2.11	
		For >1,000 To 2,000, Deduct	-4.07	
		For >2,000 To 5,000, Deduct	-6.32	
		For >5,000, Deduct	-9.12	
33 01 30 79-0107	LF	66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	84.71	
		For Up To 75, Add	18.50	
		For >75 To 150, Add	8.47	
		For >500 To 1,000, Deduct	-2.32	
		For >1,000 To 2,000, Deduct	-4.48	
		For >2,000 To 5,000, Deduct	-6.96	
		For >5,000, Deduct	-10.03	
33 01 30 79-0108	LF	72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	92.40	
		For Up To 75, Add	20.18	
		For >75 To 150, Add	9.24	
		For >500 To 1,000, Deduct	-2.53	
		For >1,000 To 2,000, Deduct	-4.89	
		For >2,000 To 5,000, Deduct	-7.59	
		For >5,000, Deduct	-10.94	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0109 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	100.10	
For Up To 75, Add	21.86	
For >75 To 150, Add	10.01	
For >500 To 1,000, Deduct	-2.74	
For >1,000 To 2,000, Deduct	-5.30	
For >2,000 To 5,000, Deduct	-8.22	
For >5,000, Deduct	-11.85	
33 01 30 79-0110 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	107.82	
For Up To 75, Add	23.55	
For >75 To 150, Add	10.78	
For >500 To 1,000, Deduct	-2.95	
For >1,000 To 2,000, Deduct	-5.70	
For >2,000 To 5,000, Deduct	-8.85	
For >5,000, Deduct	-12.77	
33 01 30 79-0111 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	115.50	
For Up To 75, Add	25.23	
For >75 To 150, Add	11.55	
For >500 To 1,000, Deduct	-3.16	
For >1,000 To 2,000, Deduct	-6.11	
For >2,000 To 5,000, Deduct	-9.48	
For >5,000, Deduct	-13.68	
33 01 30 79-0112 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	123.21	
For Up To 75, Add	26.91	
For >75 To 150, Add	12.32	
For >500 To 1,000, Deduct	-3.37	
For >1,000 To 2,000, Deduct	-6.52	
For >2,000 To 5,000, Deduct	-10.12	
For >5,000, Deduct	-14.59	
33 01 30 79-0113 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	130.92	
For Up To 75, Add	28.60	
For >75 To 150, Add	13.09	
For >500 To 1,000, Deduct	-3.58	
For >1,000 To 2,000, Deduct	-6.93	
For >2,000 To 5,000, Deduct	-10.75	
For >5,000, Deduct	-15.50	
33 01 30 79-0114 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	138.61	
For Up To 75, Add	30.28	
For >75 To 150, Add	13.86	
For >500 To 1,000, Deduct	-3.79	
For >1,000 To 2,000, Deduct	-7.33	
For >2,000 To 5,000, Deduct	-11.38	
For >5,000, Deduct	-16.42	
33 01 30 79-0115 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	146.31	
For Up To 75, Add	31.96	
For >75 To 150, Add	14.63	
For >500 To 1,000, Deduct	-4.00	
For >1,000 To 2,000, Deduct	-7.74	
For >2,000 To 5,000, Deduct	-12.01	
For >5,000, Deduct	-17.33	
33 01 30 79-0116 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	154.01	
For Up To 75, Add	33.64	
For >75 To 150, Add	15.40	
For >500 To 1,000, Deduct	-4.22	
For >1,000 To 2,000, Deduct	-8.15	
For >2,000 To 5,000, Deduct	-12.65	
For >5,000, Deduct	-18.24	
33 01 30 79-0117 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane.....	4.90	
33 01 30 79-0118 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 79-0081)		
Note: Two part structural polyurethane.		
33 01 30 79-0119 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	56.80	
For Up To 75, Add	12.26	
For >75 To 150, Add	5.68	
For >500 To 1,000, Deduct	-1.49	
For >1,000 To 2,000, Deduct	-2.90	
For >2,000 To 5,000, Deduct	-4.48	
For >5,000, Deduct	-6.58	
33 01 30 79-0120 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	66.27	
For Up To 75, Add	14.30	
For >75 To 150, Add	6.63	
For >500 To 1,000, Deduct	-1.74	
For >1,000 To 2,000, Deduct	-3.38	
For >2,000 To 5,000, Deduct	-5.23	
For >5,000, Deduct	-7.67	
33 01 30 79-0121 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	75.73	
For Up To 75, Add	16.34	
For >75 To 150, Add	7.57	
For >500 To 1,000, Deduct	-1.99	
For >1,000 To 2,000, Deduct	-3.87	
For >2,000 To 5,000, Deduct	-5.98	
For >5,000, Deduct	-8.77	



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0122	LF		54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	85.21	
			For Up To 75, Add	18.39	
			For >75 To 150, Add	8.52	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000 To 2,000, Deduct	-4.35	
			For >2,000 To 5,000, Deduct	-6.73	
			For >5,000, Deduct	-9.87	
33 01 30 79-0123	LF		60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	94.67	
			For Up To 75, Add	20.43	
			For >75 To 150, Add	9.47	
			For >500 To 1,000, Deduct	-2.49	
			For >1,000 To 2,000, Deduct	-4.83	
			For >2,000 To 5,000, Deduct	-7.47	
			For >5,000, Deduct	-10.96	
33 01 30 79-0124	LF		66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	104.12	
			For Up To 75, Add	22.47	
			For >75 To 150, Add	10.41	
			For >500 To 1,000, Deduct	-2.74	
			For >1,000 To 2,000, Deduct	-5.31	
			For >2,000 To 5,000, Deduct	-8.22	
			For >5,000, Deduct	-12.05	
33 01 30 79-0125	LF		72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	113.60	
			For Up To 75, Add	24.51	
			For >75 To 150, Add	11.36	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000 To 2,000, Deduct	-5.80	
			For >2,000 To 5,000, Deduct	-8.97	
			For >5,000, Deduct	-13.15	
33 01 30 79-0126	LF		78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	123.06	
			For Up To 75, Add	26.55	
			For >75 To 150, Add	12.31	
			For >500 To 1,000, Deduct	-3.24	
			For >1,000 To 2,000, Deduct	-6.28	
			For >2,000 To 5,000, Deduct	-9.71	
			For >5,000, Deduct	-14.25	
33 01 30 79-0127	LF		84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	132.53	
			For Up To 75, Add	28.60	
			For >75 To 150, Add	13.25	
			For >500 To 1,000, Deduct	-3.49	
			For >1,000 To 2,000, Deduct	-6.76	
			For >2,000 To 5,000, Deduct	-10.46	
			For >5,000, Deduct	-15.34	
33 01 30 79-0128	LF		90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	142.00	
			For Up To 75, Add	30.64	
			For >75 To 150, Add	14.20	
			For >500 To 1,000, Deduct	-3.74	
			For >1,000 To 2,000, Deduct	-7.25	
			For >2,000 To 5,000, Deduct	-11.21	
			For >5,000, Deduct	-16.44	
33 01 30 79-0129	LF		96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	151.47	
			For Up To 75, Add	32.68	
			For >75 To 150, Add	15.15	
			For >500 To 1,000, Deduct	-3.99	
			For >1,000 To 2,000, Deduct	-7.73	
			For >2,000 To 5,000, Deduct	-11.96	
			For >5,000, Deduct	-17.54	
33 01 30 79-0130	LF		102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	160.93	
			For Up To 75, Add	34.73	
			For >75 To 150, Add	16.09	
			For >500 To 1,000, Deduct	-4.23	
			For >1,000 To 2,000, Deduct	-8.21	
			For >2,000 To 5,000, Deduct	-12.70	
			For >5,000, Deduct	-18.63	
33 01 30 79-0131	LF		108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	170.40	
			For Up To 75, Add	36.77	
			For >75 To 150, Add	17.04	
			For >500 To 1,000, Deduct	-4.48	
			For >1,000 To 2,000, Deduct	-8.70	
			For >2,000 To 5,000, Deduct	-13.45	
			For >5,000, Deduct	-19.73	
33 01 30 79-0132	LF		114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	179.87	
			For Up To 75, Add	38.81	
			For >75 To 150, Add	17.99	
			For >500 To 1,000, Deduct	-4.73	
			For >1,000 To 2,000, Deduct	-9.18	
			For >2,000 To 5,000, Deduct	-14.20	
			For >5,000, Deduct	-20.83	
33 01 30 79-0133	LF		120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	189.34	
			For Up To 75, Add	40.86	
			For >75 To 150, Add	18.93	
			For >500 To 1,000, Deduct	-4.98	
			For >1,000 To 2,000, Deduct	-9.66	
			For >2,000 To 5,000, Deduct	-14.95	
			For >5,000, Deduct	-21.92	
33 01 30 79-0134	SF		Structure Lining, Spray Applied With 200 mil Structural Polyurethane	6.03	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0135 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 79-0081)		
Note: Two part structural polyurethane.		
33 01 30 79-0136 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	67.47	
For Up To 75, Add	14.44	
For >75 To 150, Add	6.75	
For >500 To 1,000, Deduct	-1.73	
For >1,000 To 2,000, Deduct	-3.36	
For >2,000 To 5,000, Deduct	-5.18	
For >5,000, Deduct	-7.69	
33 01 30 79-0137 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	78.72	
For Up To 75, Add	16.85	
For >75 To 150, Add	7.87	
For >500 To 1,000, Deduct	-2.01	
For >1,000 To 2,000, Deduct	-3.92	
For >2,000 To 5,000, Deduct	-6.04	
For >5,000, Deduct	-8.97	
33 01 30 79-0138 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	89.96	
For Up To 75, Add	19.25	
For >75 To 150, Add	9.00	
For >500 To 1,000, Deduct	-2.30	
For >1,000 To 2,000, Deduct	-4.48	
For >2,000 To 5,000, Deduct	-6.91	
For >5,000, Deduct	-10.25	
33 01 30 79-0139 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	101.19	
For Up To 75, Add	21.65	
For >75 To 150, Add	10.12	
For >500 To 1,000, Deduct	-2.59	
For >1,000 To 2,000, Deduct	-5.04	
For >2,000 To 5,000, Deduct	-7.77	
For >5,000, Deduct	-11.53	
33 01 30 79-0140 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	112.44	
For Up To 75, Add	24.06	
For >75 To 150, Add	11.24	
For >500 To 1,000, Deduct	-2.88	
For >1,000 To 2,000, Deduct	-5.60	
For >2,000 To 5,000, Deduct	-8.63	
For >5,000, Deduct	-12.82	
33 01 30 79-0141 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	123.68	
For Up To 75, Add	26.47	
For >75 To 150, Add	12.37	
For >500 To 1,000, Deduct	-3.17	
For >1,000 To 2,000, Deduct	-6.16	
For >2,000 To 5,000, Deduct	-9.50	
For >5,000, Deduct	-14.10	
33 01 30 79-0142 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	134.92	
For Up To 75, Add	28.87	
For >75 To 150, Add	13.49	
For >500 To 1,000, Deduct	-3.45	
For >1,000 To 2,000, Deduct	-6.72	
For >2,000 To 5,000, Deduct	-10.36	
For >5,000, Deduct	-15.38	
33 01 30 79-0143 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	146.17	
For Up To 75, Add	31.28	
For >75 To 150, Add	14.62	
For >500 To 1,000, Deduct	-3.74	
For >1,000 To 2,000, Deduct	-7.28	
For >2,000 To 5,000, Deduct	-11.22	
For >5,000, Deduct	-16.66	
33 01 30 79-0144 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	157.41	
For Up To 75, Add	33.68	
For >75 To 150, Add	15.74	
For >500 To 1,000, Deduct	-4.03	
For >1,000 To 2,000, Deduct	-7.84	
For >2,000 To 5,000, Deduct	-12.09	
For >5,000, Deduct	-17.94	
33 01 30 79-0145 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	168.66	
For Up To 75, Add	36.09	
For >75 To 150, Add	16.87	
For >500 To 1,000, Deduct	-4.32	
For >1,000 To 2,000, Deduct	-8.40	
For >2,000 To 5,000, Deduct	-12.95	
For >5,000, Deduct	-19.22	
33 01 30 79-0146 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	179.90	
For Up To 75, Add	38.50	
For >75 To 150, Add	17.99	
For >500 To 1,000, Deduct	-4.60	
For >1,000 To 2,000, Deduct	-8.96	
For >2,000 To 5,000, Deduct	-13.81	
For >5,000, Deduct	-20.51	
33 01 30 79-0147 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	191.14	
For Up To 75, Add	40.90	
For >75 To 150, Add	19.11	
For >500 To 1,000, Deduct	-4.89	
For >1,000 To 2,000, Deduct	-9.52	
For >2,000 To 5,000, Deduct	-14.68	
For >5,000, Deduct	-21.79	



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0148	LF	108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	202.39	
		For Up To 75, Add	43.31	
		For >75 To 150, Add	20.24	
		For >500 To 1,000, Deduct	-5.18	
		For >1,000 To 2,000, Deduct	-10.08	
		For >2,000 To 5,000, Deduct	-15.54	
		For >5,000, Deduct	-23.07	
33 01 30 79-0149	LF	114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	213.64	
		For Up To 75, Add	45.72	
		For >75 To 150, Add	21.36	
		For >500 To 1,000, Deduct	-5.47	
		For >1,000 To 2,000, Deduct	-10.64	
		For >2,000 To 5,000, Deduct	-16.40	
		For >5,000, Deduct	-24.35	
33 01 30 79-0150	LF	120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	224.89	
		For Up To 75, Add	48.12	
		For >75 To 150, Add	22.49	
		For >500 To 1,000, Deduct	-5.76	
		For >1,000 To 2,000, Deduct	-11.20	
		For >2,000 To 5,000, Deduct	-17.27	
		For >5,000, Deduct	-25.63	
33 01 30 79-0151	SF	Structure Lining, Spray Applied With 250 mil Structural Polyurethane	7.16	
33 01 30 79-0152 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 79-0081)				
Note: Two part structural polyurethane.				
33 01 30 79-0153	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	78.21	
		For Up To 75, Add	16.64	
		For >75 To 150, Add	7.82	
		For >500 To 1,000, Deduct	-1.96	
		For >1,000 To 2,000, Deduct	-3.82	
		For >2,000 To 5,000, Deduct	-5.88	
		For >5,000, Deduct	-8.81	
33 01 30 79-0154	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	91.25	
		For Up To 75, Add	19.41	
		For >75 To 150, Add	9.13	
		For >500 To 1,000, Deduct	-2.29	
		For >1,000 To 2,000, Deduct	-4.46	
		For >2,000 To 5,000, Deduct	-6.87	
		For >5,000, Deduct	-10.28	
33 01 30 79-0155	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	104.28	
		For Up To 75, Add	22.18	
		For >75 To 150, Add	10.43	
		For >500 To 1,000, Deduct	-2.62	
		For >1,000 To 2,000, Deduct	-5.10	
		For >2,000 To 5,000, Deduct	-7.85	
		For >5,000, Deduct	-11.75	
33 01 30 79-0156	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	117.32	
		For Up To 75, Add	24.95	
		For >75 To 150, Add	11.73	
		For >500 To 1,000, Deduct	-2.94	
		For >1,000 To 2,000, Deduct	-5.74	
		For >2,000 To 5,000, Deduct	-8.83	
		For >5,000, Deduct	-13.22	
33 01 30 79-0157	LF	60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	130.35	
		For Up To 75, Add	27.73	
		For >75 To 150, Add	13.04	
		For >500 To 1,000, Deduct	-3.27	
		For >1,000 To 2,000, Deduct	-6.37	
		For >2,000 To 5,000, Deduct	-9.81	
		For >5,000, Deduct	-14.69	
33 01 30 79-0158	LF	66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	143.39	
		For Up To 75, Add	30.50	
		For >75 To 150, Add	14.34	
		For >500 To 1,000, Deduct	-3.60	
		For >1,000 To 2,000, Deduct	-7.01	
		For >2,000 To 5,000, Deduct	-10.79	
		For >5,000, Deduct	-16.16	
33 01 30 79-0159	LF	72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	156.42	
		For Up To 75, Add	33.27	
		For >75 To 150, Add	15.64	
		For >500 To 1,000, Deduct	-3.92	
		For >1,000 To 2,000, Deduct	-7.65	
		For >2,000 To 5,000, Deduct	-11.77	
		For >5,000, Deduct	-17.63	
33 01 30 79-0160	LF	78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	169.46	
		For Up To 75, Add	36.04	
		For >75 To 150, Add	16.95	
		For >500 To 1,000, Deduct	-4.25	
		For >1,000 To 2,000, Deduct	-8.28	
		For >2,000 To 5,000, Deduct	-12.75	
		For >5,000, Deduct	-19.10	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0161 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	182.50	
For Up To 75, Add	38.82	
For >75 To 150, Add	18.25	
For >500 To 1,000, Deduct	-4.58	
For >1,000 To 2,000, Deduct	-8.92	
For >2,000 To 5,000, Deduct	-13.73	
For >5,000, Deduct	-20.57	
33 01 30 79-0162 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	195.54	
For Up To 75, Add	41.59	
For >75 To 150, Add	19.55	
For >500 To 1,000, Deduct	-4.90	
For >1,000 To 2,000, Deduct	-9.56	
For >2,000 To 5,000, Deduct	-14.71	
For >5,000, Deduct	-22.04	
33 01 30 79-0163 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	208.57	
For Up To 75, Add	44.36	
For >75 To 150, Add	20.86	
For >500 To 1,000, Deduct	-5.23	
For >1,000 To 2,000, Deduct	-10.20	
For >2,000 To 5,000, Deduct	-15.69	
For >5,000, Deduct	-23.51	
33 01 30 79-0164 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	221.61	
For Up To 75, Add	47.14	
For >75 To 150, Add	22.16	
For >500 To 1,000, Deduct	-5.56	
For >1,000 To 2,000, Deduct	-10.83	
For >2,000 To 5,000, Deduct	-16.67	
For >5,000, Deduct	-24.98	
33 01 30 79-0165 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	234.64	
For Up To 75, Add	49.91	
For >75 To 150, Add	23.46	
For >500 To 1,000, Deduct	-5.88	
For >1,000 To 2,000, Deduct	-11.47	
For >2,000 To 5,000, Deduct	-17.65	
For >5,000, Deduct	-26.44	
33 01 30 79-0166 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	247.68	
For Up To 75, Add	52.68	
For >75 To 150, Add	24.77	
For >500 To 1,000, Deduct	-6.21	
For >1,000 To 2,000, Deduct	-12.11	
For >2,000 To 5,000, Deduct	-18.63	
For >5,000, Deduct	-27.91	
33 01 30 79-0167 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	260.72	
For Up To 75, Add	55.45	
For >75 To 150, Add	26.07	
For >500 To 1,000, Deduct	-6.54	
For >1,000 To 2,000, Deduct	-12.75	
For >2,000 To 5,000, Deduct	-19.62	
For >5,000, Deduct	-29.38	
33 01 30 79-0168 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane.....	8.30	
33 01 30 79-0169 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 79-0081)		
Note: Two part structural polyurethane.		
33 01 30 79-0170 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	99.82	
For Up To 75, Add	21.07	
For >75 To 150, Add	9.98	
For >500 To 1,000, Deduct	-2.44	
For >1,000 To 2,000, Deduct	-4.77	
For >2,000 To 5,000, Deduct	-7.31	
For >5,000, Deduct	-11.09	
33 01 30 79-0171 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	116.46	
For Up To 75, Add	24.58	
For >75 To 150, Add	11.65	
For >500 To 1,000, Deduct	-2.84	
For >1,000 To 2,000, Deduct	-5.56	
For >2,000 To 5,000, Deduct	-8.53	
For >5,000, Deduct	-12.93	
33 01 30 79-0172 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	133.09	
For Up To 75, Add	28.09	
For >75 To 150, Add	13.31	
For >500 To 1,000, Deduct	-3.25	
For >1,000 To 2,000, Deduct	-6.35	
For >2,000 To 5,000, Deduct	-9.75	
For >5,000, Deduct	-14.78	
33 01 30 79-0173 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	149.73	
For Up To 75, Add	31.60	
For >75 To 150, Add	14.97	
For >500 To 1,000, Deduct	-3.66	
For >1,000 To 2,000, Deduct	-7.15	
For >2,000 To 5,000, Deduct	-10.97	
For >5,000, Deduct	-16.63	



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0174	LF		60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	166.37	
			For Up To 75, Add	35.11	
			For >75 To 150, Add	16.64	
			For >500 To 1,000, Deduct	-4.06	
			For >1,000 To 2,000, Deduct	-7.94	
			For >2,000 To 5,000, Deduct	-12.19	
			For >5,000, Deduct	-18.48	
33 01 30 79-0175	LF		66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	183.01	
			For Up To 75, Add	38.63	
			For >75 To 150, Add	18.30	
			For >500 To 1,000, Deduct	-4.47	
			For >1,000 To 2,000, Deduct	-8.74	
			For >2,000 To 5,000, Deduct	-13.41	
			For >5,000, Deduct	-20.32	
33 01 30 79-0176	LF		72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	199.65	
			For Up To 75, Add	42.14	
			For >75 To 150, Add	19.97	
			For >500 To 1,000, Deduct	-4.88	
			For >1,000 To 2,000, Deduct	-9.53	
			For >2,000 To 5,000, Deduct	-14.63	
			For >5,000, Deduct	-22.17	
33 01 30 79-0177	LF		78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	216.29	
			For Up To 75, Add	45.65	
			For >75 To 150, Add	21.63	
			For >500 To 1,000, Deduct	-5.28	
			For >1,000 To 2,000, Deduct	-10.33	
			For >2,000 To 5,000, Deduct	-15.85	
			For >5,000, Deduct	-24.02	
33 01 30 79-0178	LF		84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	232.92	
			For Up To 75, Add	49.16	
			For >75 To 150, Add	23.29	
			For >500 To 1,000, Deduct	-5.69	
			For >1,000 To 2,000, Deduct	-11.12	
			For >2,000 To 5,000, Deduct	-17.06	
			For >5,000, Deduct	-25.87	
33 01 30 79-0179	LF		90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	249.56	
			For Up To 75, Add	52.67	
			For >75 To 150, Add	24.96	
			For >500 To 1,000, Deduct	-6.09	
			For >1,000 To 2,000, Deduct	-11.91	
			For >2,000 To 5,000, Deduct	-18.28	
			For >5,000, Deduct	-27.71	
33 01 30 79-0180	LF		96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	266.18	
			For Up To 75, Add	56.18	
			For >75 To 150, Add	26.62	
			For >500 To 1,000, Deduct	-6.50	
			For >1,000 To 2,000, Deduct	-12.71	
			For >2,000 To 5,000, Deduct	-19.50	
			For >5,000, Deduct	-29.56	
33 01 30 79-0181	LF		102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	282.83	
			For Up To 75, Add	59.69	
			For >75 To 150, Add	28.28	
			For >500 To 1,000, Deduct	-6.91	
			For >1,000 To 2,000, Deduct	-13.50	
			For >2,000 To 5,000, Deduct	-20.72	
			For >5,000, Deduct	-31.41	
33 01 30 79-0182	LF		108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	299.47	
			For Up To 75, Add	63.20	
			For >75 To 150, Add	29.95	
			For >500 To 1,000, Deduct	-7.31	
			For >1,000 To 2,000, Deduct	-14.30	
			For >2,000 To 5,000, Deduct	-21.94	
			For >5,000, Deduct	-33.26	
33 01 30 79-0183	LF		114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	316.11	
			For Up To 75, Add	66.72	
			For >75 To 150, Add	31.61	
			For >500 To 1,000, Deduct	-7.72	
			For >1,000 To 2,000, Deduct	-15.09	
			For >2,000 To 5,000, Deduct	-23.16	
			For >5,000, Deduct	-35.11	
33 01 30 79-0184	LF		120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	332.74	
			For Up To 75, Add	70.23	
			For >75 To 150, Add	33.27	
			For >500 To 1,000, Deduct	-8.13	
			For >1,000 To 2,000, Deduct	-15.88	
			For >2,000 To 5,000, Deduct	-24.38	
			For >5,000, Deduct	-36.95	
33 01 30 79-0185	SF		Structure Lining, Spray Applied With 400 mil Structural Polyurethane	10.59	

33 01 30 79-0186 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 79-0081)
Note: Two part structural polyurethane.

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0187 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	121.71	
For Up To 75, Add	25.57	
For >75 To 150, Add	12.17	
For >500 To 1,000, Deduct	-2.92	
For >1,000 To 2,000, Deduct	-5.73	
For >2,000 To 5,000, Deduct	-8.77	
For >5,000, Deduct	-13.40	
33 01 30 79-0188 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	142.00	
For Up To 75, Add	29.83	
For >75 To 150, Add	14.20	
For >500 To 1,000, Deduct	-3.41	
For >1,000 To 2,000, Deduct	-6.68	
For >2,000 To 5,000, Deduct	-10.24	
For >5,000, Deduct	-15.63	
33 01 30 79-0189 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	162.29	
For Up To 75, Add	34.09	
For >75 To 150, Add	16.23	
For >500 To 1,000, Deduct	-3.90	
For >1,000 To 2,000, Deduct	-7.64	
For >2,000 To 5,000, Deduct	-11.70	
For >5,000, Deduct	-17.86	
33 01 30 79-0190 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	182.57	
For Up To 75, Add	38.35	
For >75 To 150, Add	18.26	
For >500 To 1,000, Deduct	-4.39	
For >1,000 To 2,000, Deduct	-8.59	
For >2,000 To 5,000, Deduct	-13.16	
For >5,000, Deduct	-20.10	
33 01 30 79-0191 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	202.85	
For Up To 75, Add	42.61	
For >75 To 150, Add	20.29	
For >500 To 1,000, Deduct	-4.87	
For >1,000 To 2,000, Deduct	-9.54	
For >2,000 To 5,000, Deduct	-14.62	
For >5,000, Deduct	-22.33	
33 01 30 79-0192 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	223.14	
For Up To 75, Add	46.88	
For >75 To 150, Add	22.31	
For >500 To 1,000, Deduct	-5.36	
For >1,000 To 2,000, Deduct	-10.50	
For >2,000 To 5,000, Deduct	-16.09	
For >5,000, Deduct	-24.56	
33 01 30 79-0193 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	243.43	
For Up To 75, Add	51.14	
For >75 To 150, Add	24.34	
For >500 To 1,000, Deduct	-5.85	
For >1,000 To 2,000, Deduct	-11.45	
For >2,000 To 5,000, Deduct	-17.55	
For >5,000, Deduct	-26.80	
33 01 30 79-0194 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	263.71	
For Up To 75, Add	55.40	
For >75 To 150, Add	26.37	
For >500 To 1,000, Deduct	-6.34	
For >1,000 To 2,000, Deduct	-12.41	
For >2,000 To 5,000, Deduct	-19.01	
For >5,000, Deduct	-29.03	
33 01 30 79-0195 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	284.00	
For Up To 75, Add	59.66	
For >75 To 150, Add	28.40	
For >500 To 1,000, Deduct	-6.82	
For >1,000 To 2,000, Deduct	-13.36	
For >2,000 To 5,000, Deduct	-20.47	
For >5,000, Deduct	-31.26	
33 01 30 79-0196 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	304.27	
For Up To 75, Add	63.92	
For >75 To 150, Add	30.43	
For >500 To 1,000, Deduct	-7.31	
For >1,000 To 2,000, Deduct	-14.32	
For >2,000 To 5,000, Deduct	-21.93	
For >5,000, Deduct	-33.49	
33 01 30 79-0197 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	324.56	
For Up To 75, Add	68.18	
For >75 To 150, Add	32.46	
For >500 To 1,000, Deduct	-7.80	
For >1,000 To 2,000, Deduct	-15.27	
For >2,000 To 5,000, Deduct	-23.40	
For >5,000, Deduct	-35.73	
33 01 30 79-0198 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	344.85	
For Up To 75, Add	72.44	
For >75 To 150, Add	34.49	
For >500 To 1,000, Deduct	-8.29	
For >1,000 To 2,000, Deduct	-16.23	
For >2,000 To 5,000, Deduct	-24.86	
For >5,000, Deduct	-37.96	



		Utilities	33	
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0199	LF	108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	365.14	
		For Up To 75, Add	76.71	
		For >75 To 150, Add	36.51	
		For >500 To 1,000, Deduct	-8.77	
		For >1,000 To 2,000, Deduct	-17.18	
		For >2,000 To 5,000, Deduct	-26.32	
		For >5,000, Deduct	-40.19	
33 01 30 79-0200	LF	114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	385.43	
		For Up To 75, Add	80.97	
		For >75 To 150, Add	38.54	
		For >500 To 1,000, Deduct	-9.26	
		For >1,000 To 2,000, Deduct	-18.13	
		For >2,000 To 5,000, Deduct	-27.78	
		For >5,000, Deduct	-42.43	
33 01 30 79-0201	LF	120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	405.72	
		For Up To 75, Add	85.23	
		For >75 To 150, Add	40.57	
		For >500 To 1,000, Deduct	-9.75	
		For >1,000 To 2,000, Deduct	-19.09	
		For >2,000 To 5,000, Deduct	-29.25	
		For >5,000, Deduct	-44.66	
33 01 30 79-0202	SF	Structure Lining, Spray Applied With 500 mil Structural Polyurethane	12.91	
33 01 30 79-0203 Relining Underground Water Pipelines (33 01 30 79)				
Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.				
33 01 30 79-0204 Relining Underground Water Pipelines Set-Up And Reinsertion (33 01 30 79-0203)				
33 01 30 79-0205	EA	Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	4,052.68	
33 01 30 79-0206	EA	Move And Reset Up At Different Access/Location.....	1,621.07	
33 01 30 79-0207 Lining Pipe With Cement (33 01 30 79-0203)				
33 01 30 79-0208	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	55.97	
		For 3/16" Thickness, Add	0.55	
		For 1/4" Thickness, Add	1.09	
33 01 30 79-0209	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	49.77	
		For 3/16" Thickness, Add	0.55	
		For 1/4" Thickness, Add	1.09	
33 01 30 79-0210	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	41.48	
		For 3/16" Thickness, Add	0.55	
		For 1/4" Thickness, Add	1.09	
33 01 30 79-0211	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	31.05	
		For 3/16" Thickness, Add	0.55	
		For 1/4" Thickness, Add	1.09	
33 01 30 79-0212	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	57.94	
		For 3/16" Thickness, Add	0.82	
		For 1/4" Thickness, Add	1.64	
33 01 30 79-0213	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	51.51	
		For 3/16" Thickness, Add	0.82	
		For 1/4" Thickness, Add	1.64	
33 01 30 79-0214	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	42.92	
		For 3/16" Thickness, Add	0.82	
		For 1/4" Thickness, Add	1.64	
33 01 30 79-0215	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	32.35	
		For 3/16" Thickness, Add	0.82	
		For 1/4" Thickness, Add	1.64	
33 01 30 79-0216	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	59.82	
		For 3/16" Thickness, Add	1.09	
		For 1/4" Thickness, Add	2.18	
33 01 30 79-0217	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	53.24	
		For 3/16" Thickness, Add	1.09	
		For 1/4" Thickness, Add	2.18	
33 01 30 79-0218	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	44.36	
		For 3/16" Thickness, Add	1.09	
		For 1/4" Thickness, Add	2.18	
33 01 30 79-0219	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	33.65	
		For 3/16" Thickness, Add	1.09	
		For 1/4" Thickness, Add	2.18	
33 01 30 79-0220	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	61.17	
		For 3/16" Thickness, Add	1.37	
		For 1/4" Thickness, Add	2.73	
33 01 30 79-0221	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	54.49	
		For 3/16" Thickness, Add	1.37	
		For 1/4" Thickness, Add	2.73	
33 01 30 79-0222	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	45.48	
		For 3/16" Thickness, Add	1.37	
		For 1/4" Thickness, Add	2.73	
33 01 30 79-0223	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	34.96	
		For 3/16" Thickness, Add	1.37	
		For 1/4" Thickness, Add	2.73	
33 01 30 79-0224	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	65.93	
		For 3/16" Thickness, Add	1.64	
		For 1/4" Thickness, Add	3.27	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0225	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	58.83	
		For 3/16" Thickness, Add	1.64	
		For 1/4" Thickness, Add	3.27	
33 01 30 79-0226	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	49.25	
		For 3/16" Thickness, Add	1.64	
		For 1/4" Thickness, Add	3.27	
33 01 30 79-0227	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	37.87	
		For 3/16" Thickness, Add	1.64	
		For 1/4" Thickness, Add	3.27	
33 01 30 79-0228	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	70.02	
		For 1/4" Thickness, Add	1.82	
		For 5/16" Thickness, Add	3.64	
33 01 30 79-0229	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	62.65	
		For 1/4" Thickness, Add	1.82	
		For 5/16" Thickness, Add	3.64	
33 01 30 79-0230	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	52.67	
		For 1/4" Thickness, Add	1.82	
		For 5/16" Thickness, Add	3.64	
33 01 30 79-0231	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	41.77	
		For 1/4" Thickness, Add	1.82	
		For 5/16" Thickness, Add	3.64	
33 01 30 79-0232	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	73.00	
		For 1/4" Thickness, Add	2.18	
		For 5/16" Thickness, Add	4.37	
33 01 30 79-0233	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	65.40	
		For 1/4" Thickness, Add	2.18	
		For 5/16" Thickness, Add	4.37	
33 01 30 79-0234	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	55.09	
		For 1/4" Thickness, Add	2.18	
		For 5/16" Thickness, Add	4.37	
33 01 30 79-0235	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	44.75	
		For 1/4" Thickness, Add	2.18	
		For 5/16" Thickness, Add	4.37	
33 01 30 79-0236	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	76.84	
		For 1/4" Thickness, Add	2.55	
		For 5/16" Thickness, Add	5.09	
33 01 30 79-0237	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	68.98	
		For 1/4" Thickness, Add	2.55	
		For 5/16" Thickness, Add	5.09	
33 01 30 79-0238	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	58.16	
		For 1/4" Thickness, Add	2.55	
		For 5/16" Thickness, Add	5.09	
33 01 30 79-0239	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement	48.49	
		For 1/4" Thickness, Add	2.55	
		For 5/16" Thickness, Add	5.09	
33 01 30 79-0240	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	80.78	
		For 1/4" Thickness, Add	2.91	
		For 5/16" Thickness, Add	5.83	
33 01 30 79-0241	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	72.60	
		For 1/4" Thickness, Add	2.91	
		For 5/16" Thickness, Add	5.83	
33 01 30 79-0242	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	61.45	
		For 1/4" Thickness, Add	2.91	
		For 5/16" Thickness, Add	5.83	
33 01 30 79-0243	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	52.44	
		For 1/4" Thickness, Add	2.91	
		For 5/16" Thickness, Add	5.83	
33 01 30 79-0244	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	85.71	
		For 1/4" Thickness, Add	3.64	
		For 5/16" Thickness, Add	7.28	
33 01 30 79-0245	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	77.05	
		For 1/4" Thickness, Add	3.64	
		For 5/16" Thickness, Add	7.28	
33 01 30 79-0246	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	65.23	
		For 1/4" Thickness, Add	3.64	
		For 5/16" Thickness, Add	7.28	
33 01 30 79-0247	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	56.13	
		For 1/4" Thickness, Add	3.64	
		For 5/16" Thickness, Add	7.28	
33 01 30 79-0248	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	90.56	
		For 1/4" Thickness, Add	4.37	
		For 5/16" Thickness, Add	8.74	
33 01 30 79-0249	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	81.52	
		For 1/4" Thickness, Add	4.37	
		For 5/16" Thickness, Add	8.74	
33 01 30 79-0250	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	69.04	
		For 1/4" Thickness, Add	4.37	
		For 5/16" Thickness, Add	8.74	
33 01 30 79-0251	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	59.84	
		For 1/4" Thickness, Add	4.37	
		For 5/16" Thickness, Add	8.74	
33 01 30 79-0252	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	107.58	
		For 3/8" Thickness, Add	11.47	
		For 7/16" Thickness, Add	17.20	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0253	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	97.73	
		For 3/8" Thickness, Add	11.47	
		For 7/16" Thickness, Add	17.20	
33 01 30 79-0254	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	84.16	
		For 3/8" Thickness, Add	11.47	
		For 7/16" Thickness, Add	17.20	
33 01 30 79-0255	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement	74.69	
		For 3/8" Thickness, Add	11.47	
		For 7/16" Thickness, Add	17.20	
33 01 30 79-0256	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	117.96	
		For 3/8" Thickness, Add	13.10	
		For 7/16" Thickness, Add	19.65	
33 01 30 79-0257	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	107.43	
		For 3/8" Thickness, Add	13.10	
		For 7/16" Thickness, Add	19.65	
33 01 30 79-0258	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	92.84	
		For 3/8" Thickness, Add	13.10	
		For 7/16" Thickness, Add	19.65	
33 01 30 79-0259	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement	83.17	
		For 3/8" Thickness, Add	13.10	
		For 7/16" Thickness, Add	19.65	
33 01 30 79-0260	LF	Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	122.95	
		For 3/8" Thickness, Add	14.74	
		For 7/16" Thickness, Add	22.11	
33 01 30 79-0261	LF	>500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	112.19	
		For 3/8" Thickness, Add	14.74	
		For 7/16" Thickness, Add	22.11	
33 01 30 79-0262	LF	>1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	97.26	
		For 3/8" Thickness, Add	14.74	
		For 7/16" Thickness, Add	22.11	
33 01 30 79-0263	LF	>5,000', 54" Pipe, 1/4" Pipe Lining With Cement	87.97	
		For 3/8" Thickness, Add	14.74	
		For 7/16" Thickness, Add	22.11	
33 01 30 79-0264	LF	Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	127.93	
		For 3/8" Thickness, Add	16.38	
		For 7/16" Thickness, Add	24.57	
33 01 30 79-0265	LF	>500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	116.98	
		For 3/8" Thickness, Add	16.38	
		For 7/16" Thickness, Add	24.57	
33 01 30 79-0266	LF	>1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	101.77	
		For 3/8" Thickness, Add	16.38	
		For 7/16" Thickness, Add	24.57	
33 01 30 79-0267	LF	>5,000', 60" Pipe, 1/4" Pipe Lining With Cement	92.76	
		For 3/8" Thickness, Add	16.38	
		For 7/16" Thickness, Add	24.57	
33 01 30 79-0268	LF	Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	133.21	
		For 3/8" Thickness, Add	18.02	
		For 7/16" Thickness, Add	27.03	
33 01 30 79-0269	LF	>500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	122.01	
		For 3/8" Thickness, Add	18.02	
		For 7/16" Thickness, Add	27.03	
33 01 30 79-0270	LF	>1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	106.56	
		For 3/8" Thickness, Add	18.02	
		For 7/16" Thickness, Add	27.03	
33 01 30 79-0271	LF	>5,000', 66" Pipe, 1/4" Pipe Lining With Cement	98.22	
		For 3/8" Thickness, Add	18.02	
		For 7/16" Thickness, Add	27.03	
33 01 30 79-0272	LF	Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	138.84	
		For 3/8" Thickness, Add	19.66	
		For 7/16" Thickness, Add	29.48	
33 01 30 79-0273	LF	>500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	127.47	
		For 3/8" Thickness, Add	19.66	
		For 7/16" Thickness, Add	29.48	
33 01 30 79-0274	LF	>1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	111.63	
		For 3/8" Thickness, Add	19.66	
		For 7/16" Thickness, Add	29.48	
33 01 30 79-0275	LF	>5,000', 72" Pipe, 1/4" Pipe Lining With Cement	103.77	
		For 3/8" Thickness, Add	19.66	
		For 7/16" Thickness, Add	29.48	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)

Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

33 01 30 81-0003 EA Inspect Manhole 137.44

33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System 8,263.80

Note: For internal inspection and repair of water mains.

33 01 30 81-0005 EA >60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System 11,631.28

Note: For internal inspection and repair of water mains

33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0007	Internal Manhole Chimney Seals (33 01 30 81-0006)			
	Note: Cretex.			
33 01 30 81-0008	EA	20" Internal Manhole Chimney Seal.....	392.18	
33 01 30 81-0009	EA	22" Internal Manhole Chimney Seal.....	413.38	
33 01 30 81-0010	EA	24" Internal Manhole Chimney Seal.....	423.98	
33 01 30 81-0011	EA	26" Internal Manhole Chimney Seal.....	487.58	
33 01 30 81-0012	EA	28" Internal Manhole Chimney Seal.....	551.17	
33 01 30 81-0013	EA	30" Internal Manhole Chimney Seal.....	614.78	
33 01 30 81-0014	EA	36" Internal Manhole Chimney Seal.....	741.97	
33 01 30 81-0015	External Manhole Encapsulation (33 01 30 81-0006)			
	Note: Wrapidseal.			
33 01 30 81-0016	EA	24" External Manhole Encapsulation	572.37	
33 01 30 81-0017	EA	30" External Manhole Encapsulation	604.18	
33 01 30 81-0018	EA	36" External Manhole Encapsulation	646.58	
33 01 30 81-0019	EA	42" External Manhole Encapsulation	699.58	
33 01 30 81-0020	EA	48" External Manhole Encapsulation	773.77	
33 01 30 81-0021	EA	54" External Manhole Encapsulation	858.57	
33 01 30 81-0022	EA	60" External Manhole Encapsulation	964.56	
33 01 30 81-0023	Manhole Crack Repair (33 01 30 81-0001)			
	Note: Includes removing loose materials and cleaning.			
33 01 30 81-0024	LF	Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	41.96	
33 01 30 81-0025	LF	>1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	56.41	
33 01 30 81-0026	LF	Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	40.34	
33 01 30 81-0027	LF	>1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	54.46	
33 01 30 81-0028	Manhole Patching (33 01 30 81-0001)			
	Note: Includes removing loose materials and cleaning.			
33 01 30 81-0029	SF	Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	10.85	
33 01 30 81-0030	SF	Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	26.90	
33 01 30 81-0031	Manhole Joint Restoration (33 01 30 81-0001)			
	Note: Includes drilling holes at joints, fill joints with grout.			
33 01 30 81-0032	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole	1,406.20	
	Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.			
	For Grouting Each Additional Manhole Joint Section, Add		195.21	
33 01 30 81-0033	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	1,641.42	
	Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.			
	For Grouting Each Additional Manhole Joint Section, Add		215.25	
33 01 30 81-0034	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole	1,874.93	
	Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.			
	For Grouting Each Additional Manhole Joint Section, Add		235.29	
33 01 30 81-0035	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,194.25	
	Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.			
	For Grouting Each Additional Manhole Joint Section, Add		245.30	
33 01 30 81-0036	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,512.72	
	Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.			
	For Grouting Each Additional Manhole Joint Section, Add		255.32	
33 01 30 81-0037	Step Installation In Existing Manholes (33 01 30 81-0001)			
	Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.			
33 01 30 81-0038	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	91.68	18.39
33 01 30 81-0039	EA	Drill And Grout Galvanized Steel Manhole Step	79.02	18.39
33 01 30 81-0040	EA	Bolt On Galvanized Steel Manhole Step.....	90.96	18.39
33 01 30 81-0041	EA	Drill And Grout Aluminum Manhole Step.....	76.46	18.39
33 01 30 81-0042	EA	Drill And Insert Polypropylene Manhole Step.....	49.39	14.71
33 01 30 81-0043	Manhole Penetration Sealing (33 01 30 81-0001)			
	Note: At new pipe connection to manhole.			
33 01 30 81-0044	EA	6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....	326.27	
33 01 30 81-0045	EA	>12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....	500.68	
33 01 30 81-0046	EA	>22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....	682.62	
33 01 30 81-0047	Invert Restoration (33 01 30 81-0001)			
	Note: Includes removal of existing defective material and installation of new material.			
33 01 30 81-0048	Concrete Invert Restoration (33 01 30 81-0047)			
33 01 30 81-0049	EA	2' Diameter, Concrete Invert Restoration.....	283.28	
33 01 30 81-0050	EA	3' Diameter, Concrete Invert Restoration.....	317.64	
33 01 30 81-0051	EA	4' Diameter, Concrete Invert Restoration.....	352.00	
33 01 30 81-0052	EA	5' Diameter, Concrete Invert Restoration.....	386.36	
33 01 30 81-0053	EA	6' Diameter, Concrete Invert Restoration.....	489.44	
33 01 30 81-0054	SF	Square Or Rectangular, Concrete Invert Restoration	27.99	



Utilities		33	CS
Operation And Maintenance Of Utilities		33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0055		Brick Invert Restoration (33 01 30 81-0047)		
33 01 30 81-0056	EA	2' Diameter, Brick Invert Restoration	423.38	
33 01 30 81-0057	EA	3' Diameter, Brick Invert Restoration	457.73	
33 01 30 81-0058	EA	4' Diameter, Brick Invert Restoration	492.09	
33 01 30 81-0059	EA	5' Diameter, Brick Invert Restoration	526.46	
33 01 30 81-0060	EA	6' Diameter, Brick Invert Restoration	560.82	
33 01 30 81-0061	SF	Square Or Rectangular, Brick Invert Restoration.....	38.95	
33 01 30 82		Lining For Concrete Manholes (33 01 30)		
33 01 30 82-0001		Manhole Lining (33 01 30 82)		
		Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 82-0002		Cementitious Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0003	VLF	1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	118.63	
		For Each Additional 1/2" Thick Material, Add	30.63	
		For 2 To 5 Manholes, Deduct	-8.31	
		For 6 To 10 Manholes, Deduct	-13.66	
		For >10 Manholes, Deduct	-27.31	
33 01 30 82-0004	VLF	1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	137.57	
		For Each Additional 1/2" Thick Material, Add	35.65	
		For 2 To 5 Manholes, Deduct	-9.63	
		For 6 To 10 Manholes, Deduct	-15.83	
		For >10 Manholes, Deduct	-31.66	
33 01 30 82-0005	VLF	1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	156.50	
		For Each Additional 1/2" Thick Material, Add	40.67	
		For 2 To 5 Manholes, Deduct	-10.96	
		For 6 To 10 Manholes, Deduct	-18.00	
		For >10 Manholes, Deduct	-36.00	
33 01 30 82-0006	VLF	1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	184.55	
		For Each Additional 1/2" Thick Material, Add	49.89	
		For 2 To 5 Manholes, Deduct	-12.86	
		For 6 To 10 Manholes, Deduct	-21.10	
		For >10 Manholes, Deduct	-42.21	
33 01 30 82-0007	VLF	1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	202.20	
		For Each Additional 1/2" Thick Material, Add	57.76	
		For 2 To 5 Manholes, Deduct	-13.99	
		For 6 To 10 Manholes, Deduct	-22.93	
		For >10 Manholes, Deduct	-45.86	
33 01 30 82-0008		Polyurethane Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0009	VLF	60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	236.01	
		For 80 Mil Material, Add	20.44	
		For 100 Mil Material, Add	40.88	
		For 125 Mil Material, Add	62.20	
		For 150 Mil Material, Add	83.52	
		For 200 Mil Material, Add	114.90	
		For 2 To 5 Manholes, Deduct	-17.44	
		For 6 To 10 Manholes, Deduct	-28.97	
		For >10 Manholes, Deduct	-57.94	
33 01 30 82-0010	VLF	60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	287.86	
		For 80 Mil Material, Add	24.79	
		For 100 Mil Material, Add	49.57	
		For 125 Mil Material, Add	75.39	
		For 150 Mil Material, Add	101.20	
		For 200 Mil Material, Add	139.06	
		For 2 To 5 Manholes, Deduct	-21.28	
		For 6 To 10 Manholes, Deduct	-35.36	
		For >10 Manholes, Deduct	-70.73	
33 01 30 82-0011	VLF	60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	314.68	
		For 80 Mil Material, Add	27.25	
		For 100 Mil Material, Add	54.51	
		For 125 Mil Material, Add	82.94	
		For 150 Mil Material, Add	111.37	
		For 200 Mil Material, Add	153.21	
		For 2 To 5 Manholes, Deduct	-23.25	
		For 6 To 10 Manholes, Deduct	-38.63	
		For >10 Manholes, Deduct	-77.26	
33 01 30 82-0012	VLF	60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	393.34	
		For 80 Mil Material, Add	34.07	
		For 100 Mil Material, Add	68.13	
		For 125 Mil Material, Add	103.67	
		For 150 Mil Material, Add	139.21	
		For 200 Mil Material, Add	191.50	
		For 2 To 5 Manholes, Deduct	-29.06	
		For 6 To 10 Manholes, Deduct	-48.28	
		For >10 Manholes, Deduct	-96.57	

33 Utilities**33 01 Operation And Maintenance Of Utilities****33 01 30 Operation And Maintenance Of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 82-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	472.01	
For 80 Mil Material, Add	40.88	
For 100 Mil Material, Add	81.76	
For 125 Mil Material, Add	124.41	
For 150 Mil Material, Add	167.06	
For 200 Mil Material, Add	229.81	
For 2 To 5 Manholes, Deduct	-34.87	
For 6 To 10 Manholes, Deduct	-57.94	
For >10 Manholes, Deduct	-115.88	
33 01 30 82-0014 Epoxy Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0015 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	256.12	
For 80 Mil Material, Add	27.14	
For 100 Mil Material, Add	54.28	
For 125 Mil Material, Add	83.99	
For 150 Mil Material, Add	113.69	
For 200 Mil Material, Add	161.82	
For 2 To 5 Manholes, Deduct	-18.44	
For 6 To 10 Manholes, Deduct	-30.48	
For >10 Manholes, Deduct	-60.96	
33 01 30 82-0016 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	311.35	
For 80 Mil Material, Add	32.61	
For 100 Mil Material, Add	65.23	
For 125 Mil Material, Add	100.83	
For 150 Mil Material, Add	136.44	
For 200 Mil Material, Add	193.87	
For 2 To 5 Manholes, Deduct	-22.45	
For 6 To 10 Manholes, Deduct	-37.13	
For >10 Manholes, Deduct	-74.25	
33 01 30 82-0017 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	341.48	
For 80 Mil Material, Add	36.19	
For 100 Mil Material, Add	72.37	
For 125 Mil Material, Add	111.97	
For 150 Mil Material, Add	151.57	
For 200 Mil Material, Add	215.74	
For 2 To 5 Manholes, Deduct	-24.59	
For 6 To 10 Manholes, Deduct	-40.64	
For >10 Manholes, Deduct	-81.28	
33 01 30 82-0018 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	426.88	
For 80 Mil Material, Add	45.25	
For 100 Mil Material, Add	90.49	
For 125 Mil Material, Add	140.00	
For 150 Mil Material, Add	189.52	
For 200 Mil Material, Add	269.76	
For 2 To 5 Manholes, Deduct	-30.74	
For 6 To 10 Manholes, Deduct	-50.80	
For >10 Manholes, Deduct	-101.60	
33 01 30 82-0019 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	512.25	
For 80 Mil Material, Add	54.29	
For 100 Mil Material, Add	108.59	
For 125 Mil Material, Add	168.00	
For 150 Mil Material, Add	227.42	
For 200 Mil Material, Add	323.70	
For 2 To 5 Manholes, Deduct	-36.88	
For 6 To 10 Manholes, Deduct	-60.96	
For >10 Manholes, Deduct	-121.92	
33 01 30 82-0020 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 82-0001)		
33 01 30 82-0021 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	329.29	
For 2 To 5 Manholes, Deduct	-19.88	
For 6 To 10 Manholes, Deduct	-31.54	
For >10 Manholes, Deduct	-63.07	
33 01 30 82-0022 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	403.15	
For 2 To 5 Manholes, Deduct	-24.34	
For 6 To 10 Manholes, Deduct	-38.59	
For >10 Manholes, Deduct	-77.19	
33 01 30 82-0023 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	470.34	
For 2 To 5 Manholes, Deduct	-28.08	
For 6 To 10 Manholes, Deduct	-44.39	
For >10 Manholes, Deduct	-88.79	
33 01 30 82-0024 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	589.60	
For 2 To 5 Manholes, Deduct	-35.18	
For 6 To 10 Manholes, Deduct	-55.62	
For >10 Manholes, Deduct	-111.24	
33 01 30 82-0025 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	708.86	
For 2 To 5 Manholes, Deduct	-42.28	
For 6 To 10 Manholes, Deduct	-66.84	
For >10 Manholes, Deduct	-133.69	

33 01 30 86 Manhole Rim Adjustment (33 01 30)**33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)**



		Utilities	33	CS
		Operation And Maintenance Of Utilities	33 01	
		Operation And Maintenance Of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 86-0002		Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003	EA	Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	259.45	
33 01 30 86-0004	EA	>2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	290.63	
33 01 30 86-0005	EA	>3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	319.15	
33 01 30 86-0006	EA	>4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	351.39	
33 01 30 86-0007	EA	>5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	377.97	
33 01 30 86-0008		Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	301.48	
33 01 30 86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	328.13	
33 01 30 86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	361.35	
33 01 30 86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	393.59	
33 01 30 86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	424.83	
33 01 30 86-0014		>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0015	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	422.19	
33 01 30 86-0016	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	458.50	
33 01 30 86-0017	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	495.49	
33 01 30 86-0018	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	525.47	
33 01 30 86-0019	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	570.23	
33 01 30 86-0020	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	611.28	
33 01 30 86-0021	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	651.67	
33 01 30 86-0022	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	693.06	
33 01 30 86-0023		>12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0024		Precast Concrete Manhole Riser (33 01 30 86-0023)		
33 01 30 86-0025	VLF	Up To 26" Diameter Precast Concrete Manhole Riser	91.90	
33 01 30 86-0026	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser	109.64	
33 01 30 86-0027	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser	125.18	
33 01 30 86-0028	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser	251.80	
33 01 30 86-0029	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser	369.46	
33 01 34		Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)		
33 01 34 13		Septic Tank Solids Removal (33 01 34)		
33 01 34 13-0001		Pump Out Septic Tanks (33 01 34 13)		
33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose	0.48	
33 05		Common Work Results For Utilities (33)		
33 05 07		Trenchless Installation of Utility Piping (33 05)		
33 05 07 13		Utility Directional Drilling (33 05 07)		
33 05 07 13-0001		Horizontal Augering (33 05 07 13)		
		Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	21.33	
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	25.74	
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	35.30	
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	45.61	
33 05 07 13-0006	LF	8" Diameter Horizontal Augering	74.43	
33 05 07 13-0007	LF	10" Diameter Horizontal Augering	108.58	
33 05 07 13-0008	LF	12" Diameter Horizontal Augering	130.46	
33 05 07 13-0009	LF	16" Diameter Horizontal Augering	155.86	
33 05 07 13-0010	LF	20" Diameter Horizontal Augering	269.69	
33 05 07 13-0011	LF	24" Diameter Horizontal Augering	331.79	
33 05 07 13-0012	LF	30" Diameter Horizontal Augering	409.24	
33 05 07 13-0013	LF	36" Diameter Horizontal Augering	467.56	
33 05 07 13-0014	LF	42" Diameter Horizontal Augering	580.45	
33 05 07 13-0015	LF	48" Diameter Horizontal Augering	625.45	
33 05 07 13-0016	LF	54" Diameter Horizontal Augering	680.21	
33 05 07 13-0017	LF	60" Diameter Horizontal Augering	713.12	
33 05 07 13-0018	EA	8" To 36" Horizontal Augering Minimum Set-up Charge	1,529.86	
		Note: For projects where the total boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019	EA	>36" Horizontal Augering Minimum Set-up Charge	2,633.60	
		Note: For projects where the total boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 Utilities**33 05 Common Work Results For Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 07 13-0020**Horizontal Directional Boring (33 05 07 13)**

Note: Excludes receiving pits or dewatering or cost of casing pipe.

33 05 07 13-0021	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	10.35
33 05 07 13-0022	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground	15.51
33 05 07 13-0023	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	21.55
33 05 07 13-0024	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground	26.72
33 05 07 13-0025	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground	31.89
33 05 07 13-0026	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground	37.06
33 05 07 13-0027	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground	43.09
33 05 07 13-0028	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground	52.53
33 05 07 13-0029	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground	56.92
33 05 07 13-0030	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground	61.30
33 05 07 13-0031	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground	70.05
33 05 07 13-0032	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground	86.05
33 05 07 13-0033	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground	95.61
33 05 07 13-0034	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground	105.18
33 05 07 13-0035	EA	Boring Minimum Charge	2,294.77

Note: For projects where the total boring charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

33 05 07 23**Utility Boring and Jacking (33 05 07)****33 05 07 23-0001****Horizontal Jacking (33 05 07 23)**

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking	39.56
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking	47.53
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking	64.61
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking	83.49
33 05 07 23-0006	LF	8" Diameter Horizontal Jacking	113.64
33 05 07 23-0007	LF	10" Diameter Horizontal Jacking	166.27
33 05 07 23-0008	LF	12" Diameter Horizontal Jacking	200.02
33 05 07 23-0009	LF	16" Diameter Horizontal Jacking	238.88
33 05 07 23-0010	LF	20" Diameter Horizontal Jacking	388.94
33 05 07 23-0011	LF	24" Diameter Horizontal Jacking	556.12
33 05 07 23-0012	LF	30" Diameter Horizontal Jacking	659.51
33 05 07 23-0013	LF	36" Diameter Horizontal Jacking	747.97
33 05 07 23-0014	LF	42" Diameter Horizontal Jacking	804.93
33 05 07 23-0015	LF	48" Diameter Horizontal Jacking	870.95
33 05 07 23-0016	LF	54" Diameter Horizontal Jacking	936.64
33 05 07 23-0017	EA	Up To 36" Horizontal Jacking Minimum Set-up Charge	1,755.73

Note: For projects where the total boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

33 05 07 23-0018	EA	>36" Horizontal Jacking Minimum Set-up Charge	3,292.00
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Note: For projects where the total boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

33 05 07 24**Casing Piping for Utility Jacking (33 05 07)****33 05 07 24-0001****Casing Pipe (33 05 07 24)**

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002**Steel Pipe (33 05 07 24-0001)**

33 05 07 24-0003	LF	1-1/2" Steel Pipe Pull In Place By Boring Machine	8.53
		Note: Includes pipe welding.	
33 05 07 24-0004	LF	2" Steel Pipe Pull In Place By Boring Machine	9.07
		Note: Includes pipe welding.	
33 05 07 24-0005	LF	2-1/2" Steel Pipe Pull In Place By Boring Machine	9.75
		Note: Includes pipe welding.	
33 05 07 24-0006	LF	3" Steel Pipe Pull In Place By Boring Machine	10.45
		Note: Includes pipe welding.	
33 05 07 24-0007	LF	4" Steel Pipe Pull In Place By Boring Machine	12.98
		Note: Includes pipe welding.	
33 05 07 24-0008	LF	5" Steel Pipe Pull In Place By Boring Machine	14.56
		Note: Includes pipe welding.	
33 05 07 24-0009	LF	6" Steel Pipe Pull In Place By Boring Machine	16.15
		Note: Includes pipe welding.	

33 05 07 24-0010**Polyethylene Pipe (33 05 07 24-0001)**

33 05 07 24-0011	LF	3/4" Polyethylene Pipe Pull In Place By Boring Machine	3.42
		Note: Includes pipe welding.	
33 05 07 24-0012	LF	1" Polyethylene Pipe Pull In Place By Boring Machine	3.77
		Note: Includes pipe welding.	
33 05 07 24-0013	LF	1-1/4" Polyethylene Pipe Pull In Place By Boring Machine	4.09
		Note: Includes pipe welding.	
33 05 07 24-0014	LF	1-1/2" Polyethylene Pipe Pull In Place By Boring Machine	4.38
		Note: Includes pipe welding.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine.....	4.68	
Note: Includes pipe welding.		
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	4.98	
Note: Includes pipe welding.		
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine.....	5.28	
Note: Includes pipe welding.		
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine.....	6.30	
Note: Includes pipe welding.		
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine.....	6.92	
Note: Includes pipe welding.		
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine.....	7.55	
Note: Includes pipe welding.		
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine.....	9.62	
Note: Includes pipe welding.		
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine.....	12.83	
Note: Includes pipe welding.		

33 05 61 Concrete Manholes (33 05)

33 05 61 00-0001 Manholes (33 05 61)

33 05 61 00-0002 Cast In Place Concrete, 8" Thick (33 05 61 00-0001)

Note: Includes base, wall, top and block-out for openings.

33 05 61 00-0003 48" Diameter (33 05 61 00-0002)

33 05 61 00-0004 EA 4' Diameter x 4' Deep Cast In Place Manhole 8" Thick.....	1,630.22	503.86
33 05 61 00-0005 EA 4' Diameter x 6' Deep Cast In Place Manhole 8" Thick.....	2,249.88	689.35
33 05 61 00-0006 EA 4' Diameter x 8' Deep Cast In Place Manhole 8" Thick.....	3,186.69	1,033.41
33 05 61 00-0007 VLF 4' Diameter x Vertical Linear Foot Depth Cast In Place Manhole 8" Thick, Over 8'.....	393.33	129.23

33 05 61 00-0008 Precast Concrete Manholes (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0009 3' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)

33 05 61 00-0010 EA 4' Deep x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,068.40	238.47
For 6" Thick Wall, Deduct	-82.99	
33 05 61 00-0011 EA 6' Deep x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,492.71	326.13
For 6" Thick Wall, Deduct	-116.66	
33 05 61 00-0012 EA 8' Deep x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,067.86	489.19
For 6" Thick Wall, Deduct	-157.87	
33 05 61 00-0013 VLF Vertical Linear Foot Depth Over 8', x 3' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	254.60	65.22
For 6" Thick Wall, Deduct	-19.35	

33 05 61 00-0014 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)

33 05 61 00-0015 EA 4' Deep x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,205.54	248.68
For 6" Thick Wall, Deduct	-95.69	
33 05 61 00-0016 EA 6' Deep x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,678.65	339.99
For 6" Thick Wall, Deduct	-133.87	
33 05 61 00-0017 EA 8' Deep x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,308.27	509.57
For 6" Thick Wall, Deduct	-179.87	
33 05 61 00-0018 VLF Vertical Linear Foot Depth Over 8', x 3'-6" Diameter, 8" Thick Walls, Precast Concrete Manhole.....	283.05	65.22
For 6" Thick Wall, Deduct	-21.95	

33 05 61 00-0019 4' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)

33 05 61 00-0020 EA 4' Deep x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,346.98	256.83
For 6" Thick Wall, Deduct	-108.85	
33 05 61 00-0021 EA 6' Deep x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,868.65	350.58
For 6" Thick Wall, Deduct	-151.54	
33 05 61 00-0022 EA 8' Deep x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,554.06	529.95
For 6" Thick Wall, Deduct	-202.41	
33 05 61 00-0023 VLF Vertical Linear Foot Depth Over 8', x 4' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	312.33	67.26
For 6" Thick Wall, Deduct	-24.61	
33 05 61 00-0024 VLF Vertical Linear Foot Depth x 4' Diameter, 8" Thick Walls, Precast Manhole Polyvinyl Chloride (PVC) Lined Riser / Cone.....	381.11	67.26
For 6" Thick Wall, Deduct	-31.49	

33 05 61 00-0025 5' Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)

33 05 61 00-0026 EA 4' Deep x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	1,661.78	285.36
For 6" Thick Wall, Deduct	-137.56	
33 05 61 00-0027 EA 6' Deep x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,286.09	391.35
For 6" Thick Wall, Deduct	-189.53	
33 05 61 00-0028 EA 8' Deep x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	3,091.88	587.03
For 6" Thick Wall, Deduct	-250.57	
33 05 61 00-0029 VLF Vertical Linear Foot Depth Over 8', x 5' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	375.84	73.37
For 6" Thick Wall, Deduct	-30.25	
33 05 61 00-0030 VLF Vertical Linear Foot Depth x 5' Diameter, 8" Thick Walls, Precast Manhole Polyvinyl Chloride (PVC) Lined Riser / Cone.....	450.17	73.37
For 6" Thick Wall, Deduct	-37.68	

33 Utilities**33 05 Common Work Results For Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0031 6" Diameter, 8" Thick Walls, Precast Concrete Manholes (33 05 61 00-0008)		
33 05 61 00-0032 EA 4' Deep x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,005.07	317.97
33 05 61 00-0033 EA 6' Deep x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	2,736.46	432.12
33 05 61 00-0034 EA 8' Deep x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	3,671.02	652.25
33 05 61 00-0035 VLF Vertical Linear Foot Depth Over 8', x 6' Diameter, 8" Thick Walls, Precast Concrete Manhole.....	443.21	81.54
33 05 61 00-0036 VLF Vertical Linear Foot Depth x 6' Diameter, 8" Thick Walls, Precast Manhole Polyvinyl Chloride (PVC) Lined Riser / Cone.....	511.99	81.54
33 05 62 Brick Manholes (33 05)		
33 05 62 00-0001 Brick Manholes (33 05 62)		
33 05 62 00-0002 4' Inside Diameter x 8" Wall (2 Brick) (33 05 62 00-0001)		
33 05 62 00-0003 EA 4' Inside Diameter x 4' Deep Brick Manhole, 8" Wall.....	2,250.03	830.08
33 05 62 00-0004 EA 4' Inside Diameter x 6' Deep Brick Manhole, 8" Wall.....	3,292.66	1,222.49
33 05 62 00-0005 EA 4' Inside Diameter x 8' Deep Brick Manhole, 8" Wall.....	4,358.07	1,660.18
33 05 62 00-0006 VLF 4' Inside Diameter x Vertical Linear Foot Depth Brick Manhole, 8" Wall, Over 8'.....	564.47	207.52
33 05 63 Concrete Vaults and Chambers (33 05)		
33 05 63 00-0001 Underground Utility Vaults And Structures (33 05 63)		
See CSI section 33 05 61 00-0001 for manholes, 33 05 84 00-0087 for frames and covers.		
33 05 63 00-0002 Precast Concrete Underground Utility Vault (33 05 63 00-0001)		
Note: Sizes given are for inside dimensions.		
33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0004 EA 4' x 4' x 6' Precast Concrete Underground Utility Vault.....	2,932.99	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0005 EA 4' x 6' x 6' Precast Concrete Underground Utility Vault.....	3,823.17	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0006 EA 5' x 10' x 6' Precast Concrete Underground Utility Vault.....	6,307.24	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0007 EA 5' x 12' x 6' Precast Concrete Underground Utility Vault.....	7,282.83	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0008 EA 6' x 6' x 6' Precast Concrete Underground Utility Vault.....	4,885.77	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0009 EA 6' x 8' x 6' Precast Concrete Underground Utility Vault.....	5,947.54	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0010 EA 6' x 10' x 6' Precast Concrete Underground Utility Vault.....	7,010.16	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0011 EA 6' x 12' x 6' Precast Concrete Underground Utility Vault.....	10,128.29	
Note: 8" thick walls and top.		
33 05 63 00-0012 EA 6' x 14' x 6' Precast Concrete Underground Utility Vault.....	10,128.29	
Note: 8" thick walls and top.		
33 05 63 00-0013 EA 6' x 16' x 6' Precast Concrete Underground Utility Vault.....	12,753.15	
Note: 8" thick walls and top.		
33 05 63 00-0014 EA 8' x 8' x 6' Precast Concrete Underground Utility Vault.....	7,182.62	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0015 EA 8' x 10' x 6' Precast Concrete Underground Utility Vault.....	8,416.88	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0016 EA 8' x 12' x 6' Precast Concrete Underground Utility Vault.....	12,031.18	
Note: 8" thick walls and top.		
33 05 63 00-0017 EA 8' x 14' x 6' Precast Concrete Underground Utility Vault.....	13,540.98	
Note: 8" thick walls and top.		
33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0019 EA 4' x 4' x 7' Precast Concrete Underground Utility Vault.....	3,228.86	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0020 EA 4' x 6' x 7' Precast Concrete Underground Utility Vault.....	4,192.58	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0021 EA 4' x 8' x 7' Precast Concrete Underground Utility Vault.....	5,156.28	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0022 EA 5' x 10' x 7' Precast Concrete Underground Utility Vault.....	6,860.97	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0023 EA 5' x 12' x 7' Precast Concrete Underground Utility Vault.....	7,910.90	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0024 EA 6' x 6' x 7' Precast Concrete Underground Utility Vault.....	5,328.74	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault.....	6,464.92	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault.....	7,601.07	
Note: 6" thick walls and 8" thick top.		
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault.....	11,014.23	
Note: 8" thick walls and top.		
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault.....	13,836.04	
Note: 8" thick walls and top.		
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault.....	7,773.51	
Note: 6" thick walls and 8" thick top.		



		Utilities	33	CS
		Common Work Results For Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0030	EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,081.32	
33 05 63 00-0031	EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,016.05	
33 05 63 00-0032	EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,623.05	
33 05 63 00-0033	EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,212.44	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)			
33 05 63 00-0035	EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,523.90	
33 05 63 00-0036	EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,561.99	
33 05 63 00-0037	EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,414.67	
33 05 63 00-0038	EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,538.16	
33 05 63 00-0039	EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,771.71	
33 05 63 00-0040	EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,981.44	
33 05 63 00-0041	EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,191.18	
33 05 63 00-0042	EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,900.13	
33 05 63 00-0043	EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,918.98	
33 05 63 00-0044	EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,363.59	
33 05 63 00-0045	EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,745.76	
33 05 63 00-0046	EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,000.05	
33 05 63 00-0047	EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,705.98	
33 05 63 00-0048	EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,197.02	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)			
33 05 63 00-0050	EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,214.69	
33 05 63 00-0051	EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,497.95	
33 05 63 00-0052	EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,180.98	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)			
33 05 63 00-0054	EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,657.65	
33 05 63 00-0055	EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,015.31	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)			
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0006)			
33 05 63 00-0058	EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,041.17	
33 05 63 00-0059	EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....	2,734.48	
33 05 63 00-0060	EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....	3,385.19	
33 05 63 00-0061	EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....	4,166.44	
33 05 63 00-0062	EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....	5,663.15	
33 05 63 00-0063	EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....	3,064.19	
33 05 63 00-0064	EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....	4,166.44	
33 05 63 00-0065	EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....	5,321.93	
33 05 63 00-0066	EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....	6,641.14	
33 05 63 00-0067	EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....	9,244.20	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)			
33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)			
33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069)			
33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)			
33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)			
33 05 63 00-0073	EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	193.92	19.48

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	181.00	43.29
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	275.74	64.93
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	315.12	64.93
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	302.11	64.93
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	358.90	64.93
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	350.33	64.93
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	465.33	64.93
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	658.03	86.58
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	905.51	86.58
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	618.11	119.04
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	695.61	119.04
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,098.79	119.04
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	661.47	129.86
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	915.34	129.86
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,122.94	129.86
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,613.96	129.86
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	938.19	185.58
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,320.28	185.58
33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)				
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	245.36	19.48
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	337.01	64.93
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	400.40	64.93
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	372.02	64.93
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	420.56	64.93
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	433.29	64.93
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	549.00	64.93
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	748.39	119.04
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	825.89	119.04
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,229.08	119.04
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,090.44	185.58
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,475.43	185.58
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)				
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	311.56	19.48
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	265.00	19.48
33 05 63 00-0109	EA	13" x 12", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	241.38	64.93
33 05 63 00-0110	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	268.86	64.93
33 05 63 00-0111	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	81.08	19.48
33 05 63 00-0112	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	120.02	19.48
33 05 63 00-0113	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	187.60	19.48
33 05 63 00-0114	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	195.78	19.48
33 05 63 00-0115	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	178.15	43.29



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0116	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	190.69	43.29
33 05 63 00-0117	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	118.35	19.48
33 05 63 00-0118	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	133.67	19.48
33 05 63 00-0119	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	189.39	43.29
33 05 63 00-0120	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	210.48	43.29
33 05 63 00-0121	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	196.83	43.29
33 05 63 00-0122	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	242.66	64.93
33 05 63 00-0123	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	263.35	64.93
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	278.73	64.93
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	301.90	64.93
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	348.10	64.93
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	376.13	64.93
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	406.80	64.93
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	426.09	64.93
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	512.65	86.58
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	534.15	119.04
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	668.47	119.04
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	792.49	119.04
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	870.82	119.04
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	948.73	119.04
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,087.25	185.58
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	812.68	185.58
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	912.16	185.58
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,102.38	185.58
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,100.43	185.58
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,171.43	185.58
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,307.99	185.58
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,214.85	198.84
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,311.27	198.84
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,434.36	198.84
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,483.61	198.84
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,500.73	198.84
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,688.29	198.84
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,324.04	198.84
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,719.24	198.84
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,930.24	212.10
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,360.23	212.10
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,001.04	212.10
33 05 63 00-0154		Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	312.71	64.93
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	353.47	64.93
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	129.93	19.48

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	183.15	19.48
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	241.97	19.48
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	250.16	19.48
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	231.70	43.29
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	240.44	43.29
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	252.11	43.29
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	171.61	19.48
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	200.90	19.48
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	251.82	43.29
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	272.91	43.29
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	259.93	43.29
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	312.32	64.93
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	333.26	64.93
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	361.85	64.93
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	384.88	64.93
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	430.94	64.93
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	459.09	64.93
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	489.63	64.93
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	509.05	64.93
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	627.26	86.58
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	664.44	119.04
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	798.60	119.04
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	922.49	119.04
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,000.70	119.04
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,078.86	119.04
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	963.49	185.58
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,063.11	185.58
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,253.19	185.58
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	289.94	64.93
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.82	64.93
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	98.79	19.48
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	155.81	19.48
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	219.22	19.48
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	227.55	19.48
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	216.73	43.29
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	241.00	43.29
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	137.65	19.48
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	228.65	43.29
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	258.90	43.29
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	236.51	43.29
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	309.11	64.93
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	350.45	64.93
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	364.20	64.93



		Utilities	33	CS
		Common Work Results For Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0202	EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	396.94	64.93
33 05 63 00-0203	EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	427.06	64.93
33 05 63 00-0204	EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	455.49	64.93
33 05 63 00-0205	EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	506.40	64.93
33 05 63 00-0206	EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	513.50	64.93
33 05 63 00-0207	EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	636.14	86.58
33 05 63 00-0208	EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	675.96	119.04
33 05 63 00-0209	EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	824.12	119.04
33 05 63 00-0210	EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	970.65	119.04
33 05 63 00-0211	EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,067.98	119.04
33 05 63 00-0212	EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,165.31	119.04
33 05 63 00-0213	EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,268.59	185.58
33 05 63 00-0214	EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	994.02	185.58
33 05 63 00-0215	EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,101.26	185.58
33 05 63 00-0216	EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,291.35	185.58
33 05 63 00-0217	EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,375.20	185.58
33 05 63 00-0218	EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,401.46	185.58
33 05 63 00-0219	EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,656.17	185.58
33 05 63 00-0220	EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,548.17	198.84
33 05 63 00-0221	EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,597.99	198.84
33 05 63 00-0222	EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,739.31	198.84
33 05 63 00-0223	EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,846.27	198.84
33 05 63 00-0224	EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,703.30	198.84
33 05 63 00-0225	EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,085.82	198.84
33 05 63 00-0226	EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,822.39	198.84
33 05 63 00-0227	EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,994.03	198.84
33 05 63 00-0228	EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,402.33	212.10
33 05 63 00-0229	EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,832.49	212.10
33 05 63 00-0230	EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,787.09	212.10
33 05 63 00-0231	Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0232	EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	361.25	64.93
33 05 63 00-0233	EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	416.59	64.93
33 05 63 00-0234	EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	147.25	19.48
33 05 63 00-0235	EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	218.81	19.48
33 05 63 00-0236	EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	273.47	19.48
33 05 63 00-0237	EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	281.92	19.48
33 05 63 00-0238	EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	279.16	43.29
33 05 63 00-0239	EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	303.29	43.29
33 05 63 00-0240	EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	206.89	19.48
33 05 63 00-0241	EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	290.81	43.29
33 05 63 00-0242	EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	321.05	43.29

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	281.79	43.29
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	379.05	64.93
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	420.39	64.93
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	447.17	64.93
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	479.91	64.93
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	510.02	64.93
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	538.47	64.93
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	589.39	64.93
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	596.46	64.93
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	750.59	86.58
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	806.24	119.04
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	954.27	119.04
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,100.64	119.04
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,198.04	119.04
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,295.44	119.04
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,144.97	185.58
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,252.36	185.58
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,442.31	185.58
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	307.32	64.93
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	207.28	43.29
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	230.60	43.29
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	277.06	64.93
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	214.92	43.29
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	237.25	43.29
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	233.65	64.93
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	257.95	64.93
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	302.33	86.58
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	326.19	86.58
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	395.02	119.04
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	671.15	185.58
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	645.07	185.58
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	650.76	185.58
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	854.47	198.84
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,309.28	212.10
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,688.18	212.10
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	361.15	64.93
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	376.00	64.93
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	411.10	86.58
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	435.21	86.58
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	514.31	119.04
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	813.65	185.58
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	288.58	64.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	317.86	64.93
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	437.03	119.04
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	826.54	198.84
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)		
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	75.72	8.66
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	76.66	8.66
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	71.31	8.66
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	76.84	8.66
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	77.56	8.66
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	88.45	8.66
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	101.93	8.66
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	653.20	23.86
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	572.83	23.86
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	852.76	23.86
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	862.30	23.86
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	975.56	23.86
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,062.08	23.86
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,700.84	23.86
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	65.37	8.66
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	92.12	8.66
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	93.36	8.66
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	116.54	8.66
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	88.80	8.66
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	137.21	8.66
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	108.50	8.66
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	218.91	8.66
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	194.03	12.98
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	241.82	12.98
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	311.03	15.15
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	434.27	18.56
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	452.00	35.36
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	117.93	8.66
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	166.63	8.66
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	189.11	8.66
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	312.09	8.66
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	259.73	12.98
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	436.16	15.15
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	569.81	18.56
33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	768.42	23.86
33 05 63 00-0327 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	684.21	23.86
33 05 63 00-0328 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	951.98	23.86
33 05 63 00-0329 EA 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,236.75	23.86
33 05 63 00-0330 EA 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,184.80	23.86
33 05 63 00-0331 EA 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,793.58	23.86
33 05 63 00-0332 EA 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,765.24	23.86
33 05 63 00-0333 EA 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	154.01	8.66
33 05 63 00-0334 EA 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	168.08	8.66
33 05 63 00-0335 EA 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	220.19	8.66
33 05 63 00-0336 EA 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	250.43	8.66
33 05 63 00-0337 EA 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	430.26	8.66
33 05 63 00-0338 EA 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	315.41	12.98
33 05 63 00-0339 EA 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	429.27	12.98
33 05 63 00-0340 EA 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	663.52	15.15
33 05 63 00-0341 EA 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	758.50	18.56
33 05 63 00-0342 EA 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	789.84	35.36
33 05 63 00-0343 EA 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	913.39	23.86
33 05 63 00-0344 EA 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,271.39	23.86
33 05 63 00-0345 EA 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,774.95	23.86
33 05 63 00-0346 EA 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	1,584.91	23.86
33 05 63 00-0347 EA 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	2,620.29	23.86
33 05 63 00-0348 EA 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover	4,039.29	23.86
33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)		
33 05 63 00-0350 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	86.43	8.66
33 05 63 00-0351 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	91.14	8.66
33 05 63 00-0352 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	92.68	8.66
33 05 63 00-0353 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	93.26	8.66
33 05 63 00-0354 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	107.07	8.66
33 05 63 00-0355 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	69.71	8.66
33 05 63 00-0356 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	96.57	8.66
33 05 63 00-0357 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	97.43	8.66
33 05 63 00-0358 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	121.13	8.66

33 Utilities**33 05 Common Work Results For Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0359	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket.....	93.79	8.66
33 05 63 00-0360	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket.....	113.77	8.66
33 05 63 00-0361	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	142.07	8.66
33 05 63 00-0362	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	197.29	12.98
33 05 63 00-0363	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	246.83	12.98
33 05 63 00-0364	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	457.14	35.36
33 05 63 00-0365	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	58.67	8.66
33 05 63 00-0366	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	89.67	8.66
33 05 63 00-0367	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	99.34	8.66
33 05 63 00-0368	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	95.04	8.66
33 05 63 00-0369	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	78.95	8.66
33 05 63 00-0370	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	122.37	8.66
33 05 63 00-0371	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	132.40	8.66
33 05 63 00-0372	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	171.35	8.66
33 05 63 00-0373	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	194.24	8.66
33 05 63 00-0374	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	264.32	12.98
33 05 63 00-0375	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	328.67	12.98
33 05 63 00-0376	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	599.35	35.36

33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)

33 05 63 00-0378	EA	6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	48.00	8.66
33 05 63 00-0379	EA	7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	56.34	8.66
33 05 63 00-0380	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	67.57	8.66
33 05 63 00-0381	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	72.56	8.66
33 05 63 00-0382	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	72.43	8.66
33 05 63 00-0383	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	85.22	8.66
33 05 63 00-0384	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	97.79	8.66
33 05 63 00-0385	EA	24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	233.63	12.98
33 05 63 00-0386	EA	30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	433.29	35.36
33 05 63 00-0387	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	646.17	23.86
33 05 63 00-0388	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	564.90	23.86
33 05 63 00-0389	EA	48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	839.71	23.86
33 05 63 00-0390	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	810.65	23.86
33 05 63 00-0391	EA	36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	967.99	23.86
33 05 63 00-0392	EA	48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,034.09	23.86
33 05 63 00-0393	EA	48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	1,647.05	23.86
33 05 63 00-0394	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	62.99	8.66
33 05 63 00-0395	EA	10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	61.61	8.66
33 05 63 00-0396	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	89.12	8.66
33 05 63 00-0397	EA	11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	97.54	8.66
33 05 63 00-0398	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	109.89	8.66
33 05 63 00-0399	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	84.49	8.66
33 05 63 00-0400	EA	18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	93.79	8.66
33 05 63 00-0401	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	131.38	8.66
33 05 63 00-0402	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	190.26	12.98
33 05 63 00-0403	EA	20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	236.23	12.98
33 05 63 00-0404	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	233.50	12.98
33 05 63 00-0405	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	417.20	18.56
33 05 63 00-0406	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts.....	433.29	21.21

33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)

33 05 63 00-0408	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	672.36	23.86
33 05 63 00-0409	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	968.96	23.86
33 05 63 00-0410	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	564.65	35.36
33 05 63 00-0411	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	745.72	35.36
33 05 63 00-0412	EA	30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	796.90	23.86
33 05 63 00-0413	EA	36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover.....	1,082.36	23.86

33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)

33 05 63 00-0415	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	264.40	12.98
33 05 63 00-0416	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	487.69	18.56
33 05 63 00-0417	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	510.70	35.36
33 05 63 00-0418	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	45.68	8.66
33 05 63 00-0419	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	73.01	8.66
33 05 63 00-0420	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	79.92	8.66
33 05 63 00-0421	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	84.49	8.66
33 05 63 00-0422	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	74.64	8.66
33 05 63 00-0423	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	128.33	8.66
33 05 63 00-0424	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	352.19	12.98
33 05 63 00-0425	EA	36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	646.00	18.56
33 05 63 00-0426	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover.....	677.75	35.36

33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)

Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).



		Utilities	33	CS
		Common Work Results For Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	649.07 18.00	183.77
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,088.28 89.46	275.65
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,322.00 152.31	367.54
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,372.09 189.95	367.54
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,615.32 226.55	459.42
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,698.66 254.93	459.42
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,964.24 295.91	551.31
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	2,256.18 430.29	643.19
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	2,211.24 485.23	551.31
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	2,232.49 315.03	551.31
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	513.07 15.00	183.77
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	603.76 15.00	206.74
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	739.18 15.00	229.71

33 05 84 Accessories for Utility Structures (33 05)

See CSI section 22 13 19 26-0043 for oil interceptors, 22 13 23 00-0000 for sediment interceptors.

33 05 84 00-0001 Manhole Accessories (33 05 84)

33 05 84 00-0002 Precast Concrete Manhole Tops (33 05 84 00-0001)

33 05 84 00-0003 Precast Concrete Manhole Slab Tops (33 05 84 00-0002)

33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	431.37	61.14
33 05 84 00-0005 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Slab	509.37	63.60
33 05 84 00-0006 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	596.87	66.04
33 05 84 00-0007 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	801.30	70.93
33 05 84 00-0008 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	956.52	75.83

33 05 84 00-0009 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)

33 05 84 00-0010 EA 3' Diameter x 8" Thick Precast Manhole Top Cone	679.28	76.43
33 05 84 00-0011 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	753.76	79.49
33 05 84 00-0012 EA 4' Diameter x 8" Thick Precast Manhole Top Cone	828.26	82.56
33 05 84 00-0013 EA 5' Diameter x 8" Thick Precast Manhole Top Cone	973.13	87.65
33 05 84 00-0014 EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,122.11	93.77

33 05 84 00-0015 Pipe To Manhole Connector (33 05 84 00-0001)

33 05 84 00-0016 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0015)

33 05 84 00-0017 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	66.69	
33 05 84 00-0018 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	91.73	
33 05 84 00-0019 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	103.74	
33 05 84 00-0020 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	146.82	
33 05 84 00-0021 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	201.03	
33 05 84 00-0022 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	269.94	
33 05 84 00-0023 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	462.45	
33 05 84 00-0024 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	636.53	
33 05 84 00-0025 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	975.73	
33 05 84 00-0026 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,157.53	

33 05 84 00-0027 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout

(33 05 84 00-0015)
Note: Fernco CMA.

33 05 84 00-0028 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	74.48	
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33 Utilities**33 05 Common Work Results For Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0029 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	102.54	
33 05 84 00-0030 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	129.30	
33 05 84 00-0031 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	155.94	
33 05 84 00-0032 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout	181.10	
33 05 84 00-0033 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0015)		
33 05 84 00-0034 EA Seal Gap Between Pipe And Structure With Brick And Grout.....	187.18	
33 05 84 00-0035 Inverts For Manholes (33 05 84 00-0001)		
33 05 84 00-0036 EA Single Channel Concrete Invert For Manholes	348.78	
33 05 84 00-0037 EA Double Channel Concrete Invert For Manholes	502.34	
33 05 84 00-0038 EA Triple Channel Concrete Invert For Manholes	676.80	
33 05 84 00-0039 EA Quad Channel Concrete Invert For Manholes	851.21	
33 05 84 00-0040 EA Single Channel Brick Invert For Manholes	479.72	
33 05 84 00-0041 EA Double Channel Brick Invert For Manholes	718.45	
33 05 84 00-0042 EA Triple Channel Brick Invert For Manholes	961.38	
33 05 84 00-0043 EA Quad Channel Brick Invert For Manholes	1,201.20	
33 05 84 00-0044 Steps For Cast-In-Place Manholes (33 05 84 00-0001)		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 84 00-0045 EA Cast Iron Manhole Step For New Manholes	53.89	
33 05 84 00-0046 EA Galvanized Steel Manhole Step For New Manholes.....	41.23	
33 05 84 00-0047 EA Aluminum Manhole Step For New Manholes.....	38.67	
33 05 84 00-0048 EA Polypropylene Manhole Step For New Manholes	33.16	
33 05 84 00-0049 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0050 Polyurethane Protective Coating For New Manholes (33 05 84 00-0049)		
33 05 84 00-0051 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior	143.41	
For 80 Mil Material, Add	18.69	
For 100 Mil Material, Add	37.38	
For 125 Mil Material, Add	58.63	
For 150 Mil Material, Add	79.88	
For 200 Mil Material, Add	116.74	
For 2 To 5 Manholes, Deduct	-9.99	
For 6 To 10 Manholes, Deduct	-16.39	
For >10 Manholes, Deduct	-32.78	
33 05 84 00-0052 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior	173.60	
For 80 Mil Material, Add	22.28	
For 100 Mil Material, Add	44.57	
For 125 Mil Material, Add	69.84	
For 150 Mil Material, Add	95.11	
For 200 Mil Material, Add	138.77	
For 2 To 5 Manholes, Deduct	-12.12	
For 6 To 10 Manholes, Deduct	-19.91	
For >10 Manholes, Deduct	-39.81	
33 05 84 00-0053 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	191.20	
For 80 Mil Material, Add	24.92	
For 100 Mil Material, Add	49.83	
For 125 Mil Material, Add	78.16	
For 150 Mil Material, Add	106.49	
For 200 Mil Material, Add	155.63	
For 2 To 5 Manholes, Deduct	-13.32	
For 6 To 10 Manholes, Deduct	-21.85	
For >10 Manholes, Deduct	-43.71	
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	239.05	
For 80 Mil Material, Add	31.16	
For 100 Mil Material, Add	62.32	
For 125 Mil Material, Add	97.74	
For 150 Mil Material, Add	133.17	
For 200 Mil Material, Add	194.63	
For 2 To 5 Manholes, Deduct	-16.65	
For 6 To 10 Manholes, Deduct	-27.32	
For >10 Manholes, Deduct	-54.64	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	276.84	
For 80 Mil Material, Add	36.64	
For 100 Mil Material, Add	73.27	
For 125 Mil Material, Add	115.03	
For 150 Mil Material, Add	156.79	
For 200 Mil Material, Add	229.54	
For 2 To 5 Manholes, Deduct	-19.23	
For 6 To 10 Manholes, Deduct	-31.53	
For >10 Manholes, Deduct	-63.07	
33 05 84 00-0056 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0049)		
Note: For new manholes and shop applied.		
33 05 84 00-0057 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	144.38	
33 05 84 00-0058 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	176.98	
33 05 84 00-0059 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	215.98	



		Utilities	33	CS
		Common Work Results For Utilities	33 05	
		Accessories for Utility Structures	33 05 84	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0060	VLF	5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	271.23	
33 05 84 00-0061	VLF	6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	326.48	
33 05 84 00-0062	SF	Polyvinyl Chloride (PVC) Liner At Structures	22.66	
33 05 84 00-0063		Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0064		18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0063)		
33 05 84 00-0065	EA	4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	62.35	
33 05 84 00-0066	EA	6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	67.49	
33 05 84 00-0067	EA	8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	72.62	
33 05 84 00-0068	EA	10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	77.75	
33 05 84 00-0069		24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0063)		
33 05 84 00-0070	EA	4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	69.92	
33 05 84 00-0071	EA	6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	75.76	
33 05 84 00-0072	EA	8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	81.59	
33 05 84 00-0073	EA	10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	87.42	
33 05 84 00-0074		30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0063)		
33 05 84 00-0075	EA	4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	77.36	
33 05 84 00-0076	EA	6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	83.86	
33 05 84 00-0077	EA	8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	90.37	
33 05 84 00-0078	EA	10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	96.87	
33 05 84 00-0079		Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0080		Bentonite Collar At Manhole Connections (33 05 84 00-0079)		
33 05 84 00-0081	EA	Up To 12" Pipe, Bentonite Collar At Manhole Connection	120.85	
33 05 84 00-0082	EA	>12" To 21", Bentonite Collar At Manhole Connection	191.85	
33 05 84 00-0083	EA	>21" To 30" Pipe, Bentonite Collar At Manhole Connection	308.19	
33 05 84 00-0084	EA	>30" To 36" Pipe, Bentonite Collar At Manhole Connection	725.19	
33 05 84 00-0085	EA	>36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,102.69	
33 05 84 00-0086	EA	>48" To 60" Pipe, Bentonite Collar At Manhole Connection	1,993.83	
33 05 84 00-0087		Manhole Covers And Frames (33 05 84) Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 84 00-0088		Regular Manhole Covers And Frames, City Type (33 05 84 00-0087)		
33 05 84 00-0089	EA	18" Square x 75 LB Regular Cast Iron Manhole Cover With Frame, City Type	443.22	70.12
		For Malleable Iron Castings, Add	69.37	
		For Ductile Iron Castings, Add	161.87	
		For Heavy Duty, Add	165.73	
33 05 84 00-0090	EA	18" Diameter x 100 LB Regular Cast Iron Manhole Cover With Frame, City Type	657.33	70.12
		For Malleable Iron Castings, Add	133.61	
		For Ductile Iron Castings, Add	311.75	
		For Heavy Duty, Add	240.66	
33 05 84 00-0091	EA	24" Square x 126 LB Regular Cast Iron Manhole Cover With Frame, City Type	671.49	76.64
		For Malleable Iron Castings, Add	132.32	
		For Ductile Iron Castings, Add	308.75	
		For Heavy Duty, Add	246.54	
33 05 84 00-0092	EA	24" Diameter x 200 LB Regular Cast Iron Manhole Cover With Frame, City Type	692.90	76.64
		For Malleable Iron Castings, Add	138.74	
		For Ductile Iron Castings, Add	323.74	
		For Heavy Duty, Add	254.04	
33 05 84 00-0093	EA	24" Diameter x 300 LB Regular Cast Iron Manhole Cover With Frame, City Type	754.18	81.54
		For Malleable Iron Castings, Add	152.87	
		For Ductile Iron Castings, Add	356.71	
		For Heavy Duty, Add	276.19	
33 05 84 00-0094	EA	24" Diameter x 400 LB Regular Cast Iron Manhole Cover With Frame, City Type	830.60	90.50
		For Malleable Iron Castings, Add	167.65	
		For Ductile Iron Castings, Add	391.18	
		For Heavy Duty, Add	304.30	
33 05 84 00-0095	EA	24" Square x 500 LB Regular Cast Iron Manhole Cover With Frame, City Type	974.05	90.50
		For Malleable Iron Castings, Add	210.68	
		For Ductile Iron Castings, Add	491.60	
		For Heavy Duty, Add	354.51	
33 05 84 00-0096	EA	26" Diameter x 475 LB Regular Cast Iron Manhole Cover With Frame, City Type	969.13	97.84
		For Malleable Iron Castings, Add	202.34	
		For Ductile Iron Castings, Add	472.12	
		For Heavy Duty, Add	353.93	
33 05 84 00-0097	EA	30" Diameter x 620 LB Regular Cast Iron Manhole Cover With Frame, City Type	1,095.80	101.92
		For Malleable Iron Castings, Add	237.02	
		For Ductile Iron Castings, Add	553.05	
		For Heavy Duty, Add	398.82	
33 05 84 00-0098		Watertight Type Manhole Covers And Frames (33 05 84 00-0087)		

33 Utilities**33 05 Common Work Results For Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0099 EA 20" Diameter x 200 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	673.63 132.96 310.25	57.89
33 05 84 00-0100 EA 22" Diameter x 300 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	859.68 183.09 427.20	57.89
33 05 84 00-0101 EA 24" Diameter x 350 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	965.47 208.11 485.59	67.67
33 05 84 00-0102 EA 26" Diameter x 500 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	1,185.70 267.31 623.71	75.83
33 05 84 00-0103 EA 30" Diameter x 550 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	1,149.96 253.27 590.96	77.45
33 05 84 00-0104 EA 32" Diameter x 575 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	1,235.34 277.68 647.93	79.08
33 05 84 00-0105 EA 36" Diameter x 600 LB Watertight Manhole Cover With Frame For Malleable Iron Castings, Add For Ductile Iron Castings, Add	1,402.25 326.51 761.85	81.54
33 05 84 00-0106 Aluminum Manhole Covers And Frames (33 05 84 00-0087)		
33 05 84 00-0107 EA 12" Square Aluminum Manhole Cover With Frame	378.86	25.06
33 05 84 00-0108 EA 18" Square Aluminum Manhole Cover With Frame	648.64	27.75
33 05 84 00-0109 EA 24" Square Aluminum Manhole Cover With Frame	909.73	32.22
33 05 84 00-0110 Remove And Reinstall Manhole Cover And Frame (33 05 84 00-0087) Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 84 00-0111 EA Removal And Reinstallation Of Manhole Cover And Frame	326.89	
33 05 84 00-0112 Rainguard Inflow Protectors (33 05 84 00-0087)		
33 05 84 00-0113 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	97.52	18.39
33 05 84 00-0114 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	109.28	18.39
33 05 84 00-0115 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	130.76	22.06
33 05 84 00-0116 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	138.18	22.06
33 05 84 00-0117 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	169.44	25.74
33 05 84 00-0118 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	178.56	25.74
33 05 84 00-0119 Waste Water Collection System Taps (33 05 84) Note: For tapping existing structures only. Includes grout.		
33 05 84 00-0120 Brick Manhole Taps (33 05 84 00-0119)		
33 05 84 00-0121 EA 4" Tap In 6" Brick Manhole.....	378.28	
33 05 84 00-0122 EA 6" Tap In 6" Brick Manhole.....	423.16	
33 05 84 00-0123 EA 8" Tap In 6" Brick Manhole.....	467.24	
33 05 84 00-0124 EA 10" Tap In 6" Brick Manhole.....	511.24	
33 05 84 00-0125 EA 12" Tap In 6" Brick Manhole.....	563.11	
33 05 84 00-0126 EA 15" Tap In 6" Brick Manhole.....	607.01	
33 05 84 00-0127 Precast Concrete Manhole Tap (33 05 84 00-0119)		
33 05 84 00-0128 EA 4" Tap In Existing Precast Concrete Manhole.....	554.12	
33 05 84 00-0129 EA 6" Tap In Existing Precast Concrete Manhole.....	621.45	
33 05 84 00-0130 EA 8" Tap In Existing Precast Concrete Manhole.....	693.82	
33 05 84 00-0131 EA 10" Tap In Existing Precast Concrete Manhole.....	759.82	
33 05 84 00-0132 EA 12" Tap In Existing Precast Concrete Manhole.....	825.67	
33 05 84 00-0133 EA 15" Tap In Existing Precast Concrete Manhole.....	893.13	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 23 Utility Identification Warning Tape (33 05 97)		
33 05 97 23-0001 Non-Detectable Utility Warning Tape (33 05 97 23) Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0002 LF 3" Non-Detectable Utility Warning Tape.....	0.02	
33 05 97 23-0003 LF 6" Non-Detectable Utility Warning Tape.....	0.03	
33 05 97 23-0004 Detectable Utility Warning Tape (33 05 97 23) Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0005 LF 2" Detectable Utility Warning Tape	0.02	
33 05 97 23-0006 LF 3" Detectable Utility Warning Tape	0.03	
33 05 97 23-0007 LF 6" Detectable Utility Warning Tape	0.06	



		Utilities	33	CS
		Water Utilities	33 10	
		Identification and Signage for Utilities	33 05 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 10 Water Utilities ⁽³³⁾

33 11 Groundwater Sources ^(33 10)

33 11 13 Potable Water Supply Wells ^(33 11)

33 11 13 00-0001 Drill And Test Water Well ^(33 11 13)

33 11 13 00-0002 Drill Hole ^(33 11 13 00-0001)

Note: Excludes loading and hauling of spoils.

33 11 13 00-0003 Mobilization And Demobilization ^(33 11 13 00-0002)

33 11 13 00-0004	EA	Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	725.38
33 11 13 00-0005	EA	>12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	902.44
33 11 13 00-0006	EA	>24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	1,353.65

33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. ^(33 11 13 00-0002)

Note: Excludes well casing, gravel or materials.

33 11 13 00-0008	LF	6" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	17.49
		For >100 To 250, Add	0.44
		For >250 To 400, Add	0.87
		For >400 To 600, Add	1.31
		For >600 To 750, Add	1.75
		For >750, Add	2.19
33 11 13 00-0009	LF	8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	20.75
		For >100 To 250, Add	0.52
		For >250 To 400, Add	1.04
		For >400 To 600, Add	1.56
		For >600 To 750, Add	2.08
		For >750, Add	2.59
33 11 13 00-0010	LF	10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	27.75
		For >100 To 250, Add	0.69
		For >250 To 400, Add	1.39
		For >400 To 600, Add	2.08
		For >600 To 750, Add	2.78
		For >750, Add	3.47
33 11 13 00-0011	LF	12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	43.43
		For >100 To 250, Add	1.09
		For >250 To 400, Add	2.17
		For >400 To 600, Add	3.26
		For >600 To 750, Add	4.34
		For >750, Add	5.43
33 11 13 00-0012	LF	14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	62.50
		For >100 To 250, Add	1.56
		For >250 To 400, Add	3.13
		For >400 To 600, Add	4.69
		For >600 To 750, Add	6.25
		For >750, Add	7.81
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	81.67
		For >100 To 250, Add	2.04
		For >250 To 400, Add	4.08
		For >400 To 600, Add	6.13
		For >600 To 750, Add	8.17
		For >750, Add	10.21
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	97.01
		For >100 To 250, Add	2.43
		For >250 To 400, Add	4.85
		For >400 To 600, Add	7.28
		For >600 To 750, Add	9.70
		For >750, Add	12.13
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	112.80
		For >100 To 250, Add	2.82
		For >250 To 400, Add	5.64
		For >400 To 600, Add	8.46
		For >600 To 750, Add	11.28
		For >750, Add	14.10
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	132.54
		For >100 To 250, Add	3.31
		For >250 To 400, Add	6.63
		For >400 To 600, Add	9.94
		For >600 To 750, Add	13.25
		For >750, Add	16.57
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	156.23
		For >100 To 250, Add	3.91
		For >250 To 400, Add	7.81
		For >400 To 600, Add	11.72
		For >600 To 750, Add	15.62
		For >750, Add	19.53
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	168.87
		For >100 To 250, Add	4.22
		For >250 To 400, Add	8.44
		For >400 To 600, Add	12.67
		For >600 To 750, Add	16.89
		For >750, Add	21.11

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	185.79	
For >100 To 250, Add	4.64	
For >250 To 400, Add	9.29	
For >400 To 600, Add	13.93	
For >600 To 750, Add	18.58	
For >750, Add	23.22	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	203.50	
For >100 To 250, Add	5.09	
For >250 To 400, Add	10.18	
For >400 To 600, Add	15.26	
For >600 To 750, Add	20.35	
For >750, Add	25.44	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	253.13	
For >100 To 250, Add	6.33	
For >250 To 400, Add	12.66	
For >400 To 600, Add	18.98	
For >600 To 750, Add	25.31	
For >750, Add	31.64	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)		
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock	35.65	
For >100 To 250, Add	0.89	
For >250 To 400, Add	1.78	
For >400 To 600, Add	2.67	
For >600 To 750, Add	3.57	
For >750, Add	4.46	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock	41.52	
For >100 To 250, Add	1.04	
For >250 To 400, Add	2.08	
For >400 To 600, Add	3.11	
For >600 To 750, Add	4.15	
For >750, Add	5.19	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock	66.47	
For >100 To 250, Add	1.66	
For >250 To 400, Add	3.32	
For >400 To 600, Add	4.99	
For >600 To 750, Add	6.65	
For >750, Add	8.31	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock	86.90	
For >100 To 250, Add	2.17	
For >250 To 400, Add	4.35	
For >400 To 600, Add	6.52	
For >600 To 750, Add	8.69	
For >750, Add	10.86	
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	125.08	
For >100 To 250, Add	3.13	
For >250 To 400, Add	6.25	
For >400 To 600, Add	9.38	
For >600 To 750, Add	12.51	
For >750, Add	15.64	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	163.25	
For >100 To 250, Add	4.08	
For >250 To 400, Add	8.16	
For >400 To 600, Add	12.24	
For >600 To 750, Add	16.33	
For >750, Add	20.41	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	194.12	
For >100 To 250, Add	4.85	
For >250 To 400, Add	9.71	
For >400 To 600, Add	14.56	
For >600 To 750, Add	19.41	
For >750, Add	24.27	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	225.25	
For >100 To 250, Add	5.63	
For >250 To 400, Add	11.26	
For >400 To 600, Add	16.89	
For >600 To 750, Add	22.53	
For >750, Add	28.16	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	265.32	
For >100 To 250, Add	6.63	
For >250 To 400, Add	13.27	
For >400 To 600, Add	19.90	
For >600 To 750, Add	26.53	
For >750, Add	33.17	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	306.46	
For >100 To 250, Add	7.66	
For >250 To 400, Add	15.32	
For >400 To 600, Add	22.98	
For >600 To 750, Add	30.65	
For >750, Add	38.31	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0033	LF		26" Water Well Hole Drilled In Sedimentary Rock	337.74	
			For >100 To 250, Add	8.44	
			For >250 To 400, Add	16.89	
			For >400 To 600, Add	25.33	
			For >600 To 750, Add	33.77	
			For >750, Add	42.22	
33 11 13 00-0034	LF		28" Water Well Hole Drilled In Sedimentary Rock	371.58	
			For >100 To 250, Add	9.29	
			For >250 To 400, Add	18.58	
			For >400 To 600, Add	27.87	
			For >600 To 750, Add	37.16	
			For >750, Add	46.45	
33 11 13 00-0035	LF		30" Water Well Hole Drilled In Sedimentary Rock	406.99	
			For >100 To 250, Add	10.17	
			For >250 To 400, Add	20.35	
			For >400 To 600, Add	30.52	
			For >600 To 750, Add	40.70	
			For >750, Add	50.87	
33 11 13 00-0036	LF		36" Water Well Hole Drilled In Sedimentary Rock	506.27	
			For >100 To 250, Add	12.66	
			For >250 To 400, Add	25.31	
			For >400 To 600, Add	37.97	
			For >600 To 750, Add	50.63	
			For >750, Add	63.28	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)					
33 11 13 00-0038	LF		6" Water Well Hole Drilled In Crystalline Rock.....	73.32	
			For >100 To 250, Add	1.83	
			For >250 To 400, Add	3.67	
			For >400 To 600, Add	5.50	
			For >600 To 750, Add	7.33	
			For >750, Add	9.17	
33 11 13 00-0039	LF		8" Water Well Hole Drilled In Crystalline Rock.....	84.61	
			For >100 To 250, Add	2.12	
			For >250 To 400, Add	4.23	
			For >400 To 600, Add	6.35	
			For >600 To 750, Add	8.46	
			For >750, Add	10.58	
33 11 13 00-0040	LF		10" Water Well Hole Drilled In Crystalline Rock.....	97.01	
			For >100 To 250, Add	2.43	
			For >250 To 400, Add	4.85	
			For >400 To 600, Add	7.28	
			For >600 To 750, Add	9.70	
			For >750, Add	12.13	
33 11 13 00-0041	LF		12" Water Well Hole Drilled In Crystalline Rock.....	122.96	
			For >100 To 250, Add	3.07	
			For >250 To 400, Add	6.15	
			For >400 To 600, Add	9.22	
			For >600 To 750, Add	12.30	
			For >750, Add	15.37	
33 11 13 00-0042	LF		14" Water Well Hole Drilled In Crystalline Rock.....	159.06	
			For >100 To 250, Add	3.98	
			For >250 To 400, Add	7.95	
			For >400 To 600, Add	11.93	
			For >600 To 750, Add	15.91	
			For >750, Add	19.88	
33 11 13 00-0043	LF		16" Water Well Hole Drilled In Crystalline Rock.....	231.25	
			For >100 To 250, Add	5.78	
			For >250 To 400, Add	11.56	
			For >400 To 600, Add	17.34	
			For >600 To 750, Add	23.13	
			For >750, Add	28.91	
33 11 13 00-0044	LF		18" Water Well Hole Drilled In Crystalline Rock.....	275.24	
			For >100 To 250, Add	6.88	
			For >250 To 400, Add	13.76	
			For >400 To 600, Add	20.64	
			For >600 To 750, Add	27.52	
			For >750, Add	34.41	
33 11 13 00-0045	LF		20" Water Well Hole Drilled In Crystalline Rock.....	319.23	
			For >100 To 250, Add	7.98	
			For >250 To 400, Add	15.96	
			For >400 To 600, Add	23.94	
			For >600 To 750, Add	31.92	
			For >750, Add	39.90	
33 11 13 00-0046	LF		22" Water Well Hole Drilled In Crystalline Rock.....	375.64	
			For >100 To 250, Add	9.39	
			For >250 To 400, Add	18.78	
			For >400 To 600, Add	28.17	
			For >600 To 750, Add	37.56	
			For >750, Add	46.96	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	434.30	
For >100 To 250, Add	10.86	
For >250 To 400, Add	21.72	
For >400 To 600, Add	32.57	
For >600 To 750, Add	43.43	
For >750, Add	54.29	
33 11 13 00-0048 Furnish And Install Casing (33 11 13 00-0001)		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	25.58	
For >100 To 250, Deduct	-0.82	
For >250 To 400, Deduct	-1.46	
For >400 To 600, Deduct	-2.19	
For >600 To 750, Deduct	-2.92	
For >750, Deduct	-3.88	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	31.82	
For >100 To 250, Deduct	-1.02	
For >250 To 400, Deduct	-1.82	
For >400 To 600, Deduct	-2.72	
For >600 To 750, Deduct	-3.63	
For >750, Deduct	-4.83	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	46.22	
For >100 To 250, Deduct	-1.43	
For >250 To 400, Deduct	-2.58	
For >400 To 600, Deduct	-3.87	
For >600 To 750, Deduct	-5.16	
For >750, Deduct	-6.81	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	75.70	
For >100 To 250, Deduct	-2.22	
For >250 To 400, Deduct	-4.11	
For >400 To 600, Deduct	-6.16	
For >600 To 750, Deduct	-8.22	
For >750, Deduct	-10.70	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	86.15	
For >100 To 250, Deduct	-2.60	
For >250 To 400, Deduct	-4.76	
For >400 To 600, Deduct	-7.14	
For >600 To 750, Deduct	-9.52	
For >750, Deduct	-12.48	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	101.56	
For >100 To 250, Deduct	-3.10	
For >250 To 400, Deduct	-5.64	
For >400 To 600, Deduct	-8.46	
For >600 To 750, Deduct	-11.27	
For >750, Deduct	-14.82	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush.....	116.82	
For >100 To 250, Deduct	-3.62	
For >250 To 400, Deduct	-6.54	
For >400 To 600, Deduct	-9.82	
For >600 To 750, Deduct	-13.09	
For >750, Deduct	-17.28	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush.....	134.09	
For >100 To 250, Deduct	-4.22	
For >250 To 400, Deduct	-7.57	
For >400 To 600, Deduct	-11.36	
For >600 To 750, Deduct	-15.14	
For >750, Deduct	-20.05	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush.....	156.17	
For >100 To 250, Deduct	-4.88	
For >250 To 400, Deduct	-8.78	
For >400 To 600, Deduct	-13.17	
For >600 To 750, Deduct	-17.56	
For >750, Deduct	-23.22	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install.....	0.93	
For >100 To 250, Deduct	-0.04	
For >250 To 400, Deduct	-0.06	
For >400 To 600, Deduct	-0.09	
For >600 To 750, Deduct	-0.12	
For >750, Deduct	-0.16	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush.....	56.16	
For >100 To 250, Deduct	-1.58	
For >250 To 400, Deduct	-2.99	
For >400 To 600, Deduct	-4.48	
For >600 To 750, Deduct	-5.98	
For >750, Deduct	-7.70	



	Utilities	33	
	Water Utilities	33 10	33
	Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush	83.96	
For >100 To 250, Deduct	-2.32	
For >250 To 400, Deduct	-4.42	
For >400 To 600, Deduct	-6.64	
For >600 To 750, Deduct	-8.85	
For >750, Deduct	-11.35	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush	117.09	
For >100 To 250, Deduct	-3.22	
For >250 To 400, Deduct	-6.14	
For >400 To 600, Deduct	-9.21	
For >600 To 750, Deduct	-12.29	
For >750, Deduct	-15.73	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush	136.22	
For >100 To 250, Deduct	-3.75	
For >250 To 400, Deduct	-7.15	
For >400 To 600, Deduct	-10.73	
For >600 To 750, Deduct	-14.31	
For >750, Deduct	-18.33	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	125.74	
For >100 To 250, Deduct	-3.65	
For >250 To 400, Deduct	-6.79	
For >400 To 600, Deduct	-10.19	
For >600 To 750, Deduct	-13.58	
For >750, Deduct	-17.64	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	145.60	
For >100 To 250, Deduct	-4.22	
For >250 To 400, Deduct	-7.86	
For >400 To 600, Deduct	-11.79	
For >600 To 750, Deduct	-15.71	
For >750, Deduct	-20.39	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	174.61	
For >100 To 250, Deduct	-5.01	
For >250 To 400, Deduct	-9.38	
For >400 To 600, Deduct	-14.07	
For >600 To 750, Deduct	-18.76	
For >750, Deduct	-24.29	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	199.90	
For >100 To 250, Deduct	-5.74	
For >250 To 400, Deduct	-10.73	
For >400 To 600, Deduct	-16.10	
For >600 To 750, Deduct	-21.47	
For >750, Deduct	-27.80	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	221.00	
For >100 To 250, Deduct	-6.37	
For >250 To 400, Deduct	-11.90	
For >400 To 600, Deduct	-17.85	
For >600 To 750, Deduct	-23.80	
For >750, Deduct	-30.85	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	288.74	
For >100 To 250, Deduct	-8.23	
For >250 To 400, Deduct	-15.45	
For >400 To 600, Deduct	-23.17	
For >600 To 750, Deduct	-30.89	
For >750, Deduct	-39.93	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	379.87	
For >100 To 250, Deduct	-10.76	
For >250 To 400, Deduct	-20.26	
For >400 To 600, Deduct	-30.38	
For >600 To 750, Deduct	-40.51	
For >750, Deduct	-52.28	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing	25.04	
For >100 To 250, Deduct	-0.77	
For >250 To 400, Deduct	-1.40	
For >400 To 600, Deduct	-2.09	
For >600 To 750, Deduct	-2.79	
For >750, Deduct	-3.68	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing	39.72	
For >100 To 250, Deduct	-1.22	
For >250 To 400, Deduct	-2.21	
For >400 To 600, Deduct	-3.32	
For >600 To 750, Deduct	-4.42	
For >750, Deduct	-5.82	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	60.05	
For >100 To 250, Deduct	-1.84	
For >250 To 400, Deduct	-3.35	
For >400 To 600, Deduct	-5.02	
For >600 To 750, Deduct	-6.69	
For >750, Deduct	-8.81	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	71.02	
For >100 To 250, Deduct	-2.19	
For >250 To 400, Deduct	-3.97	
For >400 To 600, Deduct	-5.95	
For >600 To 750, Deduct	-7.93	
For >750, Deduct	-10.45	
33 11 13 00-0078 Furnish And Install Well Screen Assembly (33 11 13 00-0001)		
33 11 13 00-0079 Stainless Steel Well Screen (33 11 13 00-0078)		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen.....	18.48	1.44
For >100 To 250, Deduct	-0.65	
For >250 To 400, Deduct	-1.11	
For >400 To 600, Deduct	-1.66	
For >600 To 750, Deduct	-2.22	
For >750, Deduct	-3.01	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen.....	28.61	1.44
For >100 To 250, Deduct	-0.92	
For >250 To 400, Deduct	-1.63	
For >400 To 600, Deduct	-2.45	
For >600 To 750, Deduct	-3.26	
For >750, Deduct	-4.34	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen.....	35.95	2.17
For >100 To 250, Deduct	-1.15	
For >250 To 400, Deduct	-2.05	
For >400 To 600, Deduct	-3.08	
For >600 To 750, Deduct	-4.10	
For >750, Deduct	-5.45	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen.....	45.31	2.17
For >100 To 250, Deduct	-1.43	
For >250 To 400, Deduct	-2.57	
For >400 To 600, Deduct	-3.85	
For >600 To 750, Deduct	-5.13	
For >750, Deduct	-6.81	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....	54.65	2.89
For >100 To 250, Deduct	-1.77	
For >250 To 400, Deduct	-3.13	
For >400 To 600, Deduct	-4.70	
For >600 To 750, Deduct	-6.27	
For >750, Deduct	-8.35	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....	71.25	3.61
For >100 To 250, Deduct	-2.29	
For >250 To 400, Deduct	-4.08	
For >400 To 600, Deduct	-6.11	
For >600 To 750, Deduct	-8.15	
For >750, Deduct	-10.85	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	90.72	5.77
For >100 To 250, Deduct	-2.96	
For >250 To 400, Deduct	-5.23	
For >400 To 600, Deduct	-7.84	
For >600 To 750, Deduct	-10.46	
For >750, Deduct	-13.97	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	106.41	7.21
For >100 To 250, Deduct	-3.47	
For >250 To 400, Deduct	-6.13	
For >400 To 600, Deduct	-9.19	
For >600 To 750, Deduct	-12.26	
For >750, Deduct	-16.37	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	117.14	7.94
For >100 To 250, Deduct	-3.86	
For >250 To 400, Deduct	-6.79	
For >400 To 600, Deduct	-10.18	
For >600 To 750, Deduct	-13.57	
For >750, Deduct	-18.18	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	127.09	9.38
For >100 To 250, Deduct	-4.22	
For >250 To 400, Deduct	-7.40	
For >400 To 600, Deduct	-11.10	
For >600 To 750, Deduct	-14.80	
For >750, Deduct	-19.86	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	152.80	10.82
For >100 To 250, Deduct	-5.11	
For >250 To 400, Deduct	-8.93	
For >400 To 600, Deduct	-13.39	
For >600 To 750, Deduct	-17.86	
For >750, Deduct	-24.00	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	192.68	13.70
For >100 To 250, Deduct	-6.44	
For >250 To 400, Deduct	-11.25	
For >400 To 600, Deduct	-16.88	
For >600 To 750, Deduct	-22.51	
For >750, Deduct	-30.24	



		Utilities	33	CS
		Water Utilities	33 10	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0092 LF 24" Stainless Steel Well Screen..... For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	250.12 -8.38 -14.63 -21.94 -29.26 -39.33	18.04
33 11 13 00-0093 LF 26" Stainless Steel Well Screen..... For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	288.10 -9.61 -16.81 -25.22 -33.62 -45.15	20.93
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	8.48 -0.33 -0.54 -0.81 -1.08 -1.50 1.54	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	9.55 -0.36 -0.60 -0.90 -1.20 -1.66 1.84	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	14.23 -0.58 -0.93 -1.40 -1.87 -2.62 2.15	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	19.53 -0.73 -1.22 -1.82 -2.43 -3.35 3.99	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	24.59 -0.92 -1.53 -2.30 -3.06 -4.22 5.00	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	30.51 -1.12 -1.89 -2.83 -3.77 -5.18 6.44	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	34.91 -1.35 -2.23 -3.34 -4.45 -6.19 6.29	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	49.09 -1.84 -3.07 -4.60 -6.14 -8.47 9.82	
33 11 13 00-0103 Furnish And Install Gravel Pack Material (33 11 13 00-0001) Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack (33 11 13 00-0103) Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen..... For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	16.90 -0.63 -1.05 -1.58 -2.10 -2.90	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....	24.76	
For >100 To 250, Deduct	-0.94	
For >250 To 400, Deduct	-1.56	
For >400 To 600, Deduct	-2.34	
For >600 To 750, Deduct	-3.13	
For >750, Deduct	-4.33	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....	34.18	
For >100 To 250, Deduct	-1.34	
For >250 To 400, Deduct	-2.19	
For >400 To 600, Deduct	-3.29	
For >600 To 750, Deduct	-4.39	
For >750, Deduct	-6.11	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	44.01	
For >100 To 250, Deduct	-1.70	
For >250 To 400, Deduct	-2.80	
For >400 To 600, Deduct	-4.20	
For >600 To 750, Deduct	-5.60	
For >750, Deduct	-7.79	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	54.50	
For >100 To 250, Deduct	-2.08	
For >250 To 400, Deduct	-3.44	
For >400 To 600, Deduct	-5.17	
For >600 To 750, Deduct	-6.89	
For >750, Deduct	-9.54	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	71.01	
For >100 To 250, Deduct	-2.66	
For >250 To 400, Deduct	-4.44	
For >400 To 600, Deduct	-6.66	
For >600 To 750, Deduct	-8.87	
For >750, Deduct	-12.24	
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	81.57	
For >100 To 250, Deduct	-3.04	
For >250 To 400, Deduct	-5.08	
For >400 To 600, Deduct	-7.62	
For >600 To 750, Deduct	-10.16	
For >750, Deduct	-14.00	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	96.56	
For >100 To 250, Deduct	-3.64	
For >250 To 400, Deduct	-6.05	
For >400 To 600, Deduct	-9.08	
For >600 To 750, Deduct	-12.10	
For >750, Deduct	-16.72	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	109.03	
For >100 To 250, Deduct	-4.13	
For >250 To 400, Deduct	-6.86	
For >400 To 600, Deduct	-10.28	
For >600 To 750, Deduct	-13.71	
For >750, Deduct	-18.96	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	117.92	
For >100 To 250, Deduct	-4.41	
For >250 To 400, Deduct	-7.36	
For >400 To 600, Deduct	-11.04	
For >600 To 750, Deduct	-14.73	
For >750, Deduct	-20.31	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	140.07	
For >100 To 250, Deduct	-5.31	
For >250 To 400, Deduct	-8.81	
For >400 To 600, Deduct	-13.21	
For >600 To 750, Deduct	-17.62	
For >750, Deduct	-24.36	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	160.93	
For >100 To 250, Deduct	-6.22	
For >250 To 400, Deduct	-10.25	
For >400 To 600, Deduct	-15.37	
For >600 To 750, Deduct	-20.49	
For >750, Deduct	-28.48	
33 11 13 00-0117 Develop Well ^(33 11 13 00-0001)		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	255.91	
33 11 13 00-0119 Pump Test ^(33 11 13 00-0001)		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	230.04	
33 11 13 00-0121 Test Well ^(33 11 13 00-0001)		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well	72.89	
33 11 13 00-0123 Surface Seal, Concrete Filled ^(33 11 13)		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled	25.53	



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		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 11 13 00-0125 Other Water Well (33 11 13)					
33 11 13 00-0126	SF	Patch Hole In Well Casing	73.45		
33 11 13 00-0127	SF	1/2" Pressure Grout Well	2.09		
33 11 13 00-0128	SF	1" Pressure Grout Well	3.42		
33 11 13 00-0129	CF	Sediment Removal In Well Casing For Existing Well.....	4.51		
33 11 13 00-0130 Sterilization Of Well (33 11 13)					
33 11 13 00-0131	EA	Well Sterilization, Chlorine.....	1,357.05		
33 11 13 00-0132 Submersible Well Pumps (33 11 13)					
Note: Includes pump end, motor and control box.					
33 11 13 00-0133 4" Submersible Well Pumps (33 11 13 00-0132)					
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends (33 11 13 00-0133)					
33 11 13 00-0135	EA	1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,242.82	416.19	
33 11 13 00-0136	EA	3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,417.65	461.30	
33 11 13 00-0137	EA	1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,573.31	512.56	
33 11 13 00-0138 Stainless Steel Case And Ends (33 11 13 00-0133)					
33 11 13 00-0139	EA	1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,407.85	410.05	
33 11 13 00-0140	EA	3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,606.43	461.30	
33 11 13 00-0141	EA	1 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,801.63	512.56	
33 11 13 00-0142	EA	1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,066.91	563.81	
33 11 13 00-0143	EA	2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,342.36	615.07	
33 11 13 00-0144	EA	3 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,886.47	717.58	
33 11 13 00-0145	EA	5 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,641.94	820.09	
33 11 13 00-0146 6" Submersible Well Pumps (33 11 13 00-0132)					
33 11 13 00-0147	EA	5 HP Submersible Well Pump, 6" Diameter Stainless Steel	3,510.58	1,025.11	
33 11 13 00-0148	EA	7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,055.69	1,127.63	
33 11 13 00-0149	EA	10 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,622.53	1,230.14	
33 11 13 00-0150	EA	15 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,843.01	1,435.16	
33 14 Water Utility Transmission and Distribution (33 10)					
33 14 11 Water Utility Transmission Piping (33 14)					
See CSI section 33 14 13 00-0000 for water utility transmission piping.					
33 14 13 Public Water Utility Distribution Piping (33 14)					
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill.					
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)					
33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)					
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)					
Note: Cement lining and bituminous coating shall conform to ANSI A21.4.					
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)					
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D class 50.					
33 14 13 13-0004	LF	4" Mechanical Joint Ductile Iron Pipe.....	36.11	11.25	
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.34		
		For Cement Mortar Lining (CML), Add	1.91		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.43		
		Note: ANSI/AWWA C151/A21.51			
		For >1,000, Deduct	-1.81		
		For Class 51, Add	1.86		
		For Class 52, Add	4.14		
		For Class 53, Add	10.85		
		For Class 54, Add	15.46		
		For Class 55, Add	17.81		
		For Class 56, Add	20.12		
33 14 13 13-0005	LF	6" Mechanical Joint Ductile Iron Pipe.....	37.72	11.81	
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.90		
		For Cement Mortar Lining (CML), Add	1.99		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.49		
		Note: ANSI/AWWA C151/A21.51			
		For >1,000, Deduct	-1.89		
		For Class 51, Add	1.94		
		For Class 52, Add	4.32		
		For Class 53, Add	11.31		
		For Class 54, Add	16.11		
		For Class 55, Add	18.56		
		For Class 56, Add	20.97		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0006 LF 8" Mechanical Joint Ductile Iron Pipe.....	44.00	12.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.78	
For Cement Mortar Lining (CML), Add	2.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.91	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.20	
For Class 51, Add	2.42	
For Class 52, Add	5.42	
For Class 53, Add	14.31	
For Class 54, Add	20.40	
For Class 55, Add	23.48	
For Class 56, Add	26.50	
33 14 13 13-0007 LF 10" Mechanical Joint Ductile Iron Pipe.....	60.00	17.79
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	19.82	
For Cement Mortar Lining (CML), Add	3.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.48	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.00	
For Class 51, Add	3.19	
For Class 52, Add	7.12	
For Class 53, Add	18.72	
For Class 54, Add	26.67	
For Class 55, Add	30.71	
For Class 56, Add	34.68	
33 14 13 13-0008 LF 12" Mechanical Joint Ductile Iron Pipe.....	72.16	19.77
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	21.10	
For Cement Mortar Lining (CML), Add	4.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.17	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.61	
For Class 51, Add	4.02	
For Class 52, Add	8.98	
For Class 53, Add	23.74	
For Class 54, Add	33.84	
For Class 55, Add	38.95	
For Class 56, Add	43.96	
33 14 13 13-0009 LF 14" Mechanical Joint Ductile Iron Pipe.....	86.02	22.20
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.03	
For Cement Mortar Lining (CML), Add	5.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.92	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.30	
For Class 51, Add	4.94	
For Class 52, Add	11.05	
For Class 53, Add	29.31	
For Class 54, Add	41.79	
For Class 55, Add	48.08	
For Class 56, Add	54.25	
33 14 13 13-0010 LF 16" Mechanical Joint Ductile Iron Pipe.....	97.18	25.43
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.05	
For Cement Mortar Lining (CML), Add	5.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.40	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.86	
For Class 51, Add	5.54	
For Class 52, Add	12.41	
For Class 53, Add	32.89	
For Class 54, Add	46.89	
For Class 55, Add	53.95	
For Class 56, Add	60.88	
33 14 13 13-0011 LF 18" Mechanical Joint Ductile Iron Pipe.....	120.17	29.66
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.85	
For Cement Mortar Lining (CML), Add	7.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.64	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.01	
For Class 51, Add	7.05	
For Class 52, Add	15.80	
For Class 53, Add	42.01	
For Class 54, Add	59.91	
For Class 55, Add	68.91	
For Class 56, Add	77.74	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0012	LF	20" Mechanical Joint Ductile Iron Pipe.....	136.78	35.59
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.49	
		For Cement Mortar Lining (CML), Add	8.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.21	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-6.84	
		For Class 51, Add	7.82	
		For Class 52, Add	17.51	
		For Class 53, Add	46.43	
		For Class 54, Add	66.20	
		For Class 55, Add	76.16	
		For Class 56, Add	85.95	
33 14 13 13-0013	LF	24" Mechanical Joint Ductile Iron Pipe.....	178.61	44.48
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	34.48	
		For Cement Mortar Lining (CML), Add	11.12	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.34	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-8.93	
		For Class 51, Add	10.44	
		For Class 52, Add	23.38	
		For Class 53, Add	62.12	
		For Class 54, Add	88.60	
		For Class 55, Add	101.91	
		For Class 56, Add	114.99	
33 14 13 13-0014	LF	30" Mechanical Joint Ductile Iron Pipe.....	228.71	47.90
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	48.61	
		For Cement Mortar Lining (CML), Add	15.68	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.76	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-11.44	
		For Class 51, Add	14.43	
		For Class 52, Add	32.39	
		For Class 53, Add	86.74	
		For Class 54, Add	123.78	
		For Class 55, Add	142.26	
		For Class 56, Add	160.41	
33 14 13 13-0015	LF	36" Mechanical Joint Ductile Iron Pipe.....	272.47	50.87
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	60.79	
		For Cement Mortar Lining (CML), Add	19.61	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.71	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-13.62	
		For Class 51, Add	17.88	
		For Class 52, Add	40.17	
		For Class 53, Add	107.95	
		For Class 54, Add	154.10	
		For Class 55, Add	177.04	
		For Class 56, Add	199.56	
33 14 13 13-0016	LF	42" Mechanical Joint Ductile Iron Pipe.....	333.49	53.82
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	78.31	
		For Cement Mortar Lining (CML), Add	25.26	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.95	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-16.67	
		For Class 51, Add	22.81	
		For Class 52, Add	51.31	
		For Class 53, Add	138.41	
		For Class 54, Add	197.64	
		For Class 55, Add	226.97	
		For Class 56, Add	255.77	
33 14 13 13-0017	LF	48" Mechanical Joint Ductile Iron Pipe.....	407.34	56.89
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	99.81	
		For Cement Mortar Lining (CML), Add	32.20	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.15	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-20.37	
		For Class 51, Add	28.85	
		For Class 52, Add	64.95	
		For Class 53, Add	175.75	
		For Class 54, Add	251.03	
		For Class 55, Add	288.19	
		For Class 56, Add	324.67	
33 14 13 13-0018		Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0019	EA	4" Mechanical Joint Ductile Iron 90 Degree Elbow	123.35	39.90
		For Cement Mortar Lining (CML), Add	6.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.72	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0020 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	192.12 10.29 7.71	58.96
33 14 13 13-0021 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	255.60 14.96 11.22	69.93
33 14 13 13-0022 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	357.52 23.80 17.85	78.90
33 14 13 13-0023 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	460.63 32.05 24.03	92.56
33 14 13 13-0024 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	693.59 53.64 40.23	103.79
33 14 13 13-0025 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	908.17 72.85 54.63	118.62
33 14 13 13-0026 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,128.77 87.72 65.79	166.07
33 14 13 13-0027 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,537.64 122.32 91.74	207.58
33 14 13 13-0028 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,244.67 182.58 136.94	276.42
33 14 13 13-0029 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,379.25 293.00 219.75	296.54
33 14 13 13-0030 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,047.06 458.07 343.55	307.87
33 14 13 13-0031 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,394.02 785.49 589.11	355.85
33 14 13 13-0032 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,047.28 1,047.37 785.53	378.58
33 14 13 13-0033 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0034 EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	112.30 5.19 3.89	39.90
33 14 13 13-0035 EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	172.57 8.33 6.25	58.96
33 14 13 13-0036 EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	227.55 12.16 9.12	69.93



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0037	EA	10" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	297.17 17.77 13.32	78.90
33 14 13 13-0038	EA	12" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	405.38 26.52 19.89	92.56
33 14 13 13-0039	EA	14" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	574.59 41.74 31.30	103.79
33 14 13 13-0040	EA	16" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	699.92 52.02 39.02	118.62
33 14 13 13-0041	EA	18" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	997.87 74.63 55.97	166.07
33 14 13 13-0042	EA	20" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,111.79 79.73 59.80	207.58
33 14 13 13-0043	EA	24" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,630.12 121.13 90.84	276.42
33 14 13 13-0044	EA	30" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,910.05 246.08 184.56	296.54
33 14 13 13-0045	EA	36" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,064.46 359.81 269.85	307.87
33 14 13 13-0046	EA	42" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,067.57 552.84 414.63	355.85
33 14 13 13-0047	EA	48" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,818.13 724.46 543.34	378.58
33 14 13 13-0048		Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0049	EA	4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	109.75 4.93 3.70	39.90
33 14 13 13-0050	EA	6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	165.77 7.65 5.74	58.96
33 14 13 13-0051	EA	8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	225.00 11.90 8.93	69.93
33 14 13 13-0052	EA	10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	296.32 17.68 13.26	78.90
33 14 13 13-0053	EA	12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	372.23 23.21 17.40	92.56

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0054 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	579.69 42.25 31.68	103.79
33 14 13 13-0055 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	678.67 49.90 37.42	118.62
33 14 13 13-0056 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	864.42 61.29 45.96	166.07
33 14 13 13-0057 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,147.49 83.30 62.48	207.58
33 14 13 13-0058 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,536.62 111.78 83.83	276.42
33 14 13 13-0059 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,511.40 206.21 154.66	296.54
33 14 13 13-0060 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,489.01 302.26 226.70	307.87
33 14 13 13-0061 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,102.82 456.37 342.27	355.85
33 14 13 13-0062 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,515.93 594.24 445.68	378.58
33 14 13 13-0063 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0064 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	107.20 4.68 3.51	39.90
33 14 13 13-0065 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	168.32 7.91 5.93	58.96
33 14 13 13-0066 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	213.95 10.80 8.10	69.93
33 14 13 13-0067 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	294.62 17.51 13.13	78.90
33 14 13 13-0068 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	357.78 21.76 16.32	92.56
33 14 13 13-0069 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	639.19 48.20 36.15	103.79
33 14 13 13-0070 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	707.57 52.79 39.59	118.62



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0071	EA	18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,025.92 77.44 58.08	166.07
33 14 13 13-0072	EA	20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,099.04 78.46 58.84	207.58
33 14 13 13-0073	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,465.22 104.64 78.48	276.42
33 14 13 13-0074	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,548.80 209.95 157.46	296.54
33 14 13 13-0075	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,336.01 286.96 215.22	307.87
33 14 13 13-0076	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,894.57 435.54 326.66	355.85
33 14 13 13-0077	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,475.13 590.16 442.62	378.58
33 14 13 13-0078		Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow ^(33 14 13 13-0002)		
33 14 13 13-0079	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	135.25 7.48 5.61	39.90
33 14 13 13-0080	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	213.37 12.41 9.31	58.96
33 14 13 13-0081	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	283.65 17.77 13.32	69.93
33 14 13 13-0082	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	398.32 27.88 20.91	78.90
33 14 13 13-0083	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	504.83 36.47 27.35	92.56
33 14 13 13-0084	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	835.54 67.83 50.87	103.79
33 14 13 13-0085	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,254.12 107.44 80.58	118.62
33 14 13 13-0086	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,472.17 122.06 91.55	166.07
33 14 13 13-0087	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,989.84 167.54 125.65	207.58

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0088 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,431.67 201.28 150.96	276.42
33 14 13 13-0089 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,412.85 396.36 297.27	296.54
33 14 13 13-0090 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,770.46 730.41 547.80	307.87
33 14 13 13-0091 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0092 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	114.85 5.44 4.08	39.90
33 14 13 13-0093 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	181.92 9.27 6.95	58.96
33 14 13 13-0094 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	254.75 14.88 11.16	69.93
33 14 13 13-0095 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	340.52 22.10 16.58	78.90
33 14 13 13-0096 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	454.68 31.45 23.59	92.56
33 14 13 13-0097 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	746.29 58.91 44.18	103.79
33 14 13 13-0098 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,113.87 93.42 70.06	118.62
33 14 13 13-0099 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,330.22 107.87 80.90	166.07
33 14 13 13-0100 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,722.94 140.85 105.63	207.58
33 14 13 13-0101 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,174.12 175.53 131.64	276.42
33 14 13 13-0102 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,896.90 344.76 258.57	296.54
33 14 13 13-0103 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,821.01 635.46 476.60	307.87

33 14 13 13-0104 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0105	EA	4" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	171.72 8.25 6.18	58.96
33 14 13 13-0106	EA	6" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	255.71 13.86 10.39	77.33
33 14 13 13-0107	EA	6" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	279.86 14.88 11.16	86.57
33 14 13 13-0108	EA	8" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	296.43 16.07 12.05	89.62
33 14 13 13-0109	EA	8" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	335.03 18.53 13.90	98.83
33 14 13 13-0110	EA	8" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	382.59 22.36 16.77	104.99
33 14 13 13-0111	EA	10" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	395.07 24.65 18.49	98.06
33 14 13 13-0112	EA	10" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	400.90 23.89 17.91	106.95
33 14 13 13-0113	EA	10" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	450.70 27.97 20.97	112.88
33 14 13 13-0114	EA	10" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	499.32 31.96 23.97	118.62
33 14 13 13-0115	EA	12" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	468.29 30.18 22.63	109.92
33 14 13 13-0116	EA	12" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	528.51 34.85 26.14	118.81
33 14 13 13-0117	EA	12" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	636.96 44.80 33.60	124.75
33 14 13 13-0118	EA	12" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	680.48 48.28 36.21	130.48
33 14 13 13-0119	EA	12" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	652.92 44.63 33.47	136.41
33 14 13 13-0120	EA	14" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	692.55 48.28 36.21	138.44
33 14 13 13-0121	EA	14" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	765.30 54.66 40.99	144.38

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0122 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....	957.58	150.11
For Cement Mortar Lining (CML), Add	73.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....	1,020.97	156.04
For Cement Mortar Lining (CML), Add	78.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....	994.19	165.88
For Cement Mortar Lining (CML), Add	74.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 16" x 6" Mechanical Joint Ductile Iron Tee.....	874.57	166.05
For Cement Mortar Lining (CML), Add	62.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 16" x 8" Mechanical Joint Ductile Iron Tee.....	937.20	172.00
For Cement Mortar Lining (CML), Add	67.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127 EA 16" x 10" Mechanical Joint Ductile Iron Tee.....	1,078.48	177.72
For Cement Mortar Lining (CML), Add	80.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 16" x 12" Mechanical Joint Ductile Iron Tee.....	1,174.17	183.65
For Cement Mortar Lining (CML), Add	89.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0129 EA 16" x 14" Mechanical Joint Ductile Iron Tee.....	1,397.28	193.47
For Cement Mortar Lining (CML), Add	110.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130 EA 16" x 16" Mechanical Joint Ductile Iron Tee.....	1,334.90	207.31
For Cement Mortar Lining (CML), Add	102.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131 EA 18" x 6" Mechanical Joint Ductile Iron Tee.....	1,204.30	212.52
For Cement Mortar Lining (CML), Add	88.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	66.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132 EA 18" x 8" Mechanical Joint Ductile Iron Tee.....	1,286.39	218.45
For Cement Mortar Lining (CML), Add	95.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133 EA 18" x 10" Mechanical Joint Ductile Iron Tee.....	1,385.18	224.19
For Cement Mortar Lining (CML), Add	104.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134 EA 18" x 12" Mechanical Joint Ductile Iron Tee.....	1,483.41	230.12
For Cement Mortar Lining (CML), Add	113.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0135 EA 18" x 14" Mechanical Joint Ductile Iron Tee.....	1,528.03	239.93
For Cement Mortar Lining (CML), Add	116.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	87.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0136 EA 18" x 16" Mechanical Joint Ductile Iron Tee.....	1,629.70	253.74
For Cement Mortar Lining (CML), Add	124.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0137 EA 18" x 18" Mechanical Joint Ductile Iron Tee.....	1,896.95	276.96
For Cement Mortar Lining (CML), Add	147.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0138 EA 20" x 6" Mechanical Joint Ductile Iron Tee.....	1,454.55	304.75
For Cement Mortar Lining (CML), Add	99.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.46	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0139	EA	20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,485.65 101.49 76.12	310.69
33 14 13 13-0140	EA	20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,605.67 112.63 84.47	316.42
33 14 13 13-0141	EA	20" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,725.16 123.68 92.76	322.34
33 14 13 13-0142	EA	20" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,749.39 124.61 93.46	332.16
33 14 13 13-0143	EA	20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,780.50 125.63 94.22	345.97
33 14 13 13-0144	EA	20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,199.90 164.05 123.04	369.20
33 14 13 13-0145	EA	20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,990.98 136.17 102.13	415.34
33 14 13 13-0146	EA	24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,795.33 119.43 89.57	396.70
33 14 13 13-0147	EA	24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,819.61 120.96 90.72	403.21
33 14 13 13-0148	EA	24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,984.70 136.60 102.45	408.38
33 14 13 13-0149	EA	24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,031.92 140.42 105.32	414.31
33 14 13 13-0150	EA	24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,262.70 162.01 121.51	424.12
33 14 13 13-0151	EA	24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,432.38 176.89 132.66	437.92
33 14 13 13-0152	EA	24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,742.98 204.43 153.32	461.16
33 14 13 13-0153	EA	24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,038.10 226.95 170.21	507.27
33 14 13 13-0154	EA	24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,859.56 202.13 151.60	553.27
33 14 13 13-0155	EA	30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,989.62 228.06 171.04	467.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0156 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,138.55 242.08 181.56	473.71
33 14 13 13-0157 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,287.79 256.11 192.08	479.64
33 14 13 13-0158 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,501.55 276.00 207.00	489.46
33 14 13 13-0159 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,734.97 297.25 222.93	651.23
33 14 13 13-0160 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,841.57 304.39 228.29	526.50
33 14 13 13-0161 EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,010.90 314.33 235.75	572.62
33 14 13 13-0162 EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,224.21 328.70 246.52	618.59
33 14 13 13-0163 EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,224.01 423.73 317.79	651.23
33 14 13 13-0164 EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,109.82 240.98 180.73	462.05
33 14 13 13-0165 EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,623.89 283.73 212.80	519.15
33 14 13 13-0166 EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,001.47 320.62 240.47	524.88
33 14 13 13-0167 EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,207.66 340.34 255.26	530.81
33 14 13 13-0168 EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,359.37 354.03 265.52	540.62
33 14 13 13-0169 EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,515.45 367.54 275.66	554.43
33 14 13 13-0170 EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,812.45 393.72 295.29	577.66
33 14 13 13-0171 EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,144.97 419.99 314.99	623.78
33 14 13 13-0172 EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,680.43 466.57 349.92	669.75



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0173 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,257.79 519.35 389.51	728.06
33 14 13 13-0174 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,252.79 614.98 461.23	728.06
33 14 13 13-0175 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,001.19 715.36 536.52	559.40
33 14 13 13-0176 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,160.56 729.81 547.36	569.22
33 14 13 13-0177 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,040.83 815.75 611.81	583.03
33 14 13 13-0178 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,489.53 757.10 567.82	606.25
33 14 13 13-0179 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,559.40 757.10 567.82	652.39
33 14 13 13-0180 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,767.61 770.95 578.21	698.36
33 14 13 13-0181 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,564.72 945.71 709.28	731.02
33 14 13 13-0182 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,000.42 985.41 739.05	756.61
33 14 13 13-0183 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,619.64 1,045.16 783.87	770.92
33 14 13 13-0184 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,395.38 847.88 635.91	604.98
33 14 13 13-0185 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,563.26 863.18 647.38	614.79
33 14 13 13-0186 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,800.93 884.85 663.64	628.61
33 14 13 13-0187 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,052.03 906.44 679.83	651.83
33 14 13 13-0188 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,338.65 928.12 696.09	697.95
33 14 13 13-0189 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,437.21 931.01 698.25	743.92

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0190 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,627.87 1,145.12 858.84	776.59
33 14 13 13-0191 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,349.63 1,313.42 985.07	802.18
33 14 13 13-0192 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,037.69 1,380.06 1,035.05	816.48
33 14 13 13-0193 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,294.07 1,402.25 1,051.68	839.30
33 14 13 13-0194 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0195 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	224.42 13.52 10.14	58.92
33 14 13 13-0196 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	256.56 13.94 10.46	77.33
33 14 13 13-0197 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	335.11 20.40 15.30	86.53
33 14 13 13-0198 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	417.13 28.14 21.10	89.62
33 14 13 13-0199 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	385.18 23.55 17.66	98.83
33 14 13 13-0200 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	456.54 29.75 22.31	104.96
33 14 13 13-0201 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	622.02 47.35 35.51	98.06
33 14 13 13-0202 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	660.15 49.81 37.36	106.95
33 14 13 13-0203 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	752.45 58.14 43.61	112.88
33 14 13 13-0204 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	841.87 66.22 49.66	118.62
33 14 13 13-0205 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	784.49 61.80 46.35	109.92
33 14 13 13-0206 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	883.81 70.38 52.79	118.81



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0207	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,053.46 86.45 64.83	124.75
33 14 13 13-0208	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,085.08 88.74 66.56	130.48
33 14 13 13-0209	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	994.62 78.80 59.10	136.40
33 14 13 13-0210	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,158.35 94.86 71.15	138.44
33 14 13 13-0211	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,316.95 109.82 82.37	144.38
33 14 13 13-0212	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,695.38 146.80 110.10	150.11
33 14 13 13-0213	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,813.17 157.68 118.26	156.04
33 14 13 13-0214	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,780.44 152.92 114.69	165.85
33 14 13 13-0215	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,205.30 95.37 71.53	166.05
33 14 13 13-0216	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,319.70 105.91 79.43	172.00
33 14 13 13-0217	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,540.03 127.08 95.31	177.72
33 14 13 13-0218	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,713.07 143.48 107.61	183.65
33 14 13 13-0219	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,120.63 182.75 137.06	193.47
33 14 13 13-0220	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,058.25 174.42 130.82	207.27
33 14 13 13-0221	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,866.45 154.45 115.83	212.52
33 14 13 13-0222	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,002.94 167.20 125.40	218.45
33 14 13 13-0223	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,134.88 179.52 134.64	224.19

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0224 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,278.16 192.95 144.71	230.12
33 14 13 13-0225 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,308.33 194.48 145.86	239.93
33 14 13 13-0226 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,339.45 195.50 146.63	253.74
33 14 13 13-0227 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,168.95 174.93 131.20	276.97
33 14 13 13-0228 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,248.45 178.67 134.00	304.75
33 14 13 13-0229 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,297.40 182.67 137.00	310.69
33 14 13 13-0230 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,506.67 202.73 152.04	316.42
33 14 13 13-0231 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,714.56 222.62 166.96	322.34
33 14 13 13-0232 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,746.44 224.32 168.24	332.16
33 14 13 13-0233 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,785.20 226.10 169.58	345.97
33 14 13 13-0234 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,206.30 264.69 198.52	369.20
33 14 13 13-0235 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,080.68 245.14 183.86	415.32
33 14 13 13-0236 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,750.73 214.97 161.22	396.70
33 14 13 13-0237 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,786.91 217.69 163.26	402.64
33 14 13 13-0238 EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,076.95 245.82 184.37	408.38
33 14 13 13-0239 EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,211.72 258.40 193.80	414.31
33 14 13 13-0240 EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,672.00 302.94 227.21	424.12



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0241	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,057.58 339.41 254.55	437.92
33 14 13 13-0242	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,521.18 382.25 286.68	461.16
33 14 13 13-0243	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,967.60 419.90 314.93	507.27
33 14 13 13-0244	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,476.26 363.80 272.85	553.24
33 14 13 13-0245	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,442.22 474.22 355.66	462.05
33 14 13 13-0246	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,068.32 535.93 401.94	467.99
33 14 13 13-0247	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,406.80 568.91 426.68	473.71
33 14 13 13-0248	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,745.59 601.89 451.41	479.64
33 14 13 13-0249	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,227.10 648.55 486.41	489.46
33 14 13 13-0250	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,747.82 698.53 523.90	503.26
33 14 13 13-0251	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,950.47 715.28 536.46	526.50
33 14 13 13-0252	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,254.10 738.65 553.99	572.62
33 14 13 13-0253	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,661.21 772.40 579.30	618.59
33 14 13 13-0254	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,374.56 838.78 629.09	651.27
33 14 13 13-0255	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,163.61 935.94 701.95	530.81
33 14 13 13-0256	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,555.02 973.59 730.19	540.62
33 14 13 13-0257	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,947.40 1,010.74 758.05	554.43

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0258 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,702.55 1,082.73 812.05	577.66
33 14 13 13-0259 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,494.92 1,154.98 866.24	623.78
33 14 13 13-0260 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,845.53 1,283.08 962.31	669.75
33 14 13 13-0261 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,478.59 1,441.43 1,081.07	702.43
33 14 13 13-0262 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,399.69 1,729.67 1,297.25	728.01
33 14 13 13-0263 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,198.35 1,520.99 1,140.74	652.39
33 14 13 13-0264 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,622.46 1,556.44 1,167.33	698.36
33 14 13 13-0265 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,746.37 1,663.88 1,247.91	731.02
33 14 13 13-0266 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,241.62 1,909.53 1,432.14	756.61
33 14 13 13-0267 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,794.19 2,262.62 1,696.96	770.91
33 14 13 13-0268 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,015.80 1,495.83 1,121.87	697.95
33 14 13 13-0269 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,108.46 1,698.13 1,273.60	743.92
33 14 13 13-0270 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,289.32 1,811.27 1,358.45	776.59
33 14 13 13-0271 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,933.33 2,071.79 1,553.84	802.18
33 14 13 13-0272 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,525.49 2,728.84 2,046.63	816.48
33 14 13 13-0273 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,280.01 3,000.84 2,250.63	839.26

33 14 13 13-0274 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0275	EA	4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	289.25 17.77 13.32	73.65
33 14 13 13-0276	EA	6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	342.59 19.38 14.54	98.20
33 14 13 13-0277	EA	6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	403.59 21.76 16.32	122.75
33 14 13 13-0278	EA	8" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	355.71 19.30 14.47	107.42
33 14 13 13-0279	EA	8" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	425.20 22.53 16.89	131.96
33 14 13 13-0280	EA	8" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	451.07 23.72 17.79	141.16
33 14 13 13-0281	EA	10" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	425.35 25.16 18.87	114.68
33 14 13 13-0282	EA	10" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	491.90 28.22 21.17	138.40
33 14 13 13-0283	EA	10" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	573.39 35.02 26.27	147.31
33 14 13 13-0284	EA	10" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	619.62 38.00 28.50	158.15
33 14 13 13-0285	EA	12 x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	506.61 31.79 23.84	124.54
33 14 13 13-0286	EA	12" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	591.00 36.64 27.48	148.27
33 14 13 13-0287	EA	12" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	816.14 57.80 43.35	157.18
33 14 13 13-0288	EA	12" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	832.63 57.80 43.35	168.06
33 14 13 13-0289	EA	12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	936.83 66.73 50.04	177.92
33 14 13 13-0290	EA	14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	947.51 70.04 52.53	163.09
33 14 13 13-0291	EA	14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,102.10 84.15 63.11	172.00

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0292 EA 14" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,135.59 85.85 64.39	182.88
33 14 13 13-0293 EA 14" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,198.14 90.61 67.96	192.74
33 14 13 13-0294 EA 14" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,321.74 100.73 75.54	207.58
33 14 13 13-0295 EA 16" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,081.79 80.33 60.24	183.83
33 14 13 13-0296 EA 16" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,220.23 92.82 69.62	192.74
33 14 13 13-0297 EA 16" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,442.91 113.44 85.08	203.61
33 14 13 13-0298 EA 16" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,599.32 127.59 95.69	213.49
33 14 13 13-0299 EA 16" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,912.48 156.66 117.49	228.31
33 14 13 13-0300 EA 16" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,226.96 184.96 138.72	249.10
33 14 13 13-0301 EA 18" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,732.71 140.34 105.25	217.39
33 14 13 13-0302 EA 18" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,829.50 148.67 111.50	226.29
33 14 13 13-0303 EA 18" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,915.69 155.64 116.73	237.16
33 14 13 13-0304 EA 18" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,070.04 169.58 127.18	247.04
33 14 13 13-0305 EA 18" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,397.65 200.09 150.07	261.85
33 14 13 13-0306 EA 18" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,554.88 212.67 159.50	282.60
33 14 13 13-0307 EA 18" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,689.00 221.00 165.75	316.13
33 14 13 13-0308 EA 20" x 6" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,177.86 176.46 132.35	272.75



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0309	EA	20" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,275.50 184.88 138.66	281.66
33 14 13 13-0310	EA	20" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,347.23 190.40 142.80	292.54
33 14 13 13-0311	EA	20" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,500.74 204.26 153.19	302.40
33 14 13 13-0312	EA	20" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,551.24 207.06 155.30	317.22
33 14 13 13-0313	EA	20" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,055.28 254.32 190.74	337.97
33 14 13 13-0314	EA	20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,189.40 262.65 196.99	371.51
33 14 13 13-0315	EA	20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,467.94 282.12 211.59	426.84
33 14 13 13-0316	EA	24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,948.81 243.19 182.39	341.19
33 14 13 13-0317	EA	24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,018.67 248.80 186.60	350.09
33 14 13 13-0318	EA	24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,131.78 258.49 193.86	360.97
33 14 13 13-0319	EA	24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,230.04 266.82 200.11	370.85
33 14 13 13-0320	EA	24" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,294.14 270.98 203.24	385.66
33 14 13 13-0321	EA	24" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,423.32 280.76 210.57	406.42
33 14 13 13-0322	EA	24" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,461.00 379.44 284.58	439.95
33 14 13 13-0323	EA	24" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,725.09 397.46 298.10	495.32
33 14 13 13-0324	EA	24" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,218.09 436.39 327.29	563.79
33 14 13 13-0325	EA	30" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,507.72 482.04 361.53	453.67

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0326 EA 30" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,618.56 491.47 368.60	464.55
33 14 13 13-0327 EA 30" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,727.02 500.82 375.62	474.41
33 14 13 13-0328 EA 30" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,857.42 511.62 383.71	489.24
33 14 13 13-0329 EA 30" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,009.55 523.69 392.76	509.98
33 14 13 13-0330 EA 30" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,194.67 537.12 402.84	543.52
33 14 13 13-0331 EA 30" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,439.22 553.18 414.89	598.90
33 14 13 13-0332 EA 30" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,209.77 719.87 539.90	667.34
33 14 13 13-0333 EA 30" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,442.79 827.48 620.61	770.92
33 14 13 13-0334 EA 36" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,593.67 684.85 513.63	491.84
33 14 13 13-0335 EA 36" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,703.65 694.20 520.65	502.72
33 14 13 13-0336 EA 36" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,798.51 702.19 526.64	512.60
33 14 13 13-0337 EA 36" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,914.45 711.54 533.65	527.41
33 14 13 13-0338 EA 36" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,052.99 722.25 541.68	548.16
33 14 13 13-0339 EA 36" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,223.67 734.23 550.67	581.70
33 14 13 13-0340 EA 36" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,454.61 748.94 561.70	637.07
33 14 13 13-0341 EA 36" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,838.81 776.99 582.74	705.51
33 14 13 13-0342 EA 36" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,812.64 1,058.68 794.01	809.09



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0343 EA 36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,951.67 1,166.80 875.10	847.30
33 14 13 13-0344 EA 42" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,109.95 929.99 697.49	534.66
33 14 13 13-0345 EA 42" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,395.29 1,056.27 792.21	549.50
33 14 13 13-0346 EA 42" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,355.09 949.11 711.83	570.23
33 14 13 13-0347 EA 42" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,508.76 959.40 719.55	603.77
33 14 13 13-0348 EA 42" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,732.90 973.42 730.07	659.15
33 14 13 13-0349 EA 42" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,092.45 999.01 749.25	727.59
33 14 13 13-0350 EA 42" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,135.98 1,287.67 965.75	831.16
33 14 13 13-0351 EA 42" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,320.57 1,700.34 1,275.26	869.33
33 14 13 13-0352 EA 42" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,605.21 1,825.46 1,369.10	891.42
33 14 13 13-0353 EA 48" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,602.80 1,265.99 949.49	622.31
33 14 13 13-0354 EA 48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,701.75 1,273.64 955.23	637.13
33 14 13 13-0355 EA 48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,835.18 1,283.84 962.88	657.88
33 14 13 13-0356 EA 48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,988.00 1,294.04 970.53	691.42
33 14 13 13-0357 EA 48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,200.26 1,306.88 980.16	746.79
33 14 13 13-0358 EA 48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,546.20 1,331.10 998.33	815.23
33 14 13 13-0359 EA 48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,431.58 1,403.95 1,052.96	918.80

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0360 EA 48" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,797.62 1,734.77 1,301.07	956.97
33 14 13 13-0361 EA 48" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,005.02 2,252.16 1,689.12	979.05
33 14 13 13-0362 EA 48" x 48" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,581.10 2,396.49 1,797.37	1,066.65
33 14 13 13-0363 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)		
33 14 13 13-0364 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	132.97 5.95 4.46	48.49
33 14 13 13-0365 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	164.45 8.16 6.12	54.63
33 14 13 13-0366 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	183.41 8.67 6.50	63.83
33 14 13 13-0367 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	194.91 10.63 7.97	58.52
33 14 13 13-0368 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	214.33 11.22 8.42	67.41
33 14 13 13-0369 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	234.38 12.33 9.24	73.34
33 14 13 13-0370 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	231.94 13.43 10.07	64.45
33 14 13 13-0371 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	259.02 14.79 11.09	73.34
33 14 13 13-0372 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	272.27 15.22 11.41	79.28
33 14 13 13-0373 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	297.10 16.83 12.62	85.00
33 14 13 13-0374 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	454.09 32.81 24.61	83.15
33 14 13 13-0375 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	446.09 31.11 23.33	89.10
33 14 13 13-0376 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	408.87 26.52 19.89	94.82



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377	EA	14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	430.60	100.76
		For Cement Mortar Lining (CML), Add	27.80	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.85	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0378	EA	16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	532.81	96.96
		For Cement Mortar Lining (CML), Add	38.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0379	EA	16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	527.36	102.90
		For Cement Mortar Lining (CML), Add	37.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.86	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0380	EA	16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	522.44	108.63
		For Cement Mortar Lining (CML), Add	35.79	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.84	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0381	EA	16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	564.58	114.56
		For Cement Mortar Lining (CML), Add	39.10	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.33	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0382	EA	16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	626.20	124.38
		For Cement Mortar Lining (CML), Add	43.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383	EA	18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	667.96	126.13
		For Cement Mortar Lining (CML), Add	47.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.76	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0384	EA	18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	742.94	131.86
		For Cement Mortar Lining (CML), Add	54.32	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	723.03	137.80
		For Cement Mortar Lining (CML), Add	51.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.57	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	767.64	147.61
		For Cement Mortar Lining (CML), Add	54.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.80	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	812.36	161.42
		For Cement Mortar Lining (CML), Add	56.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	939.29	172.26
		For Cement Mortar Lining (CML), Add	67.83	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.87	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	908.86	177.98
		For Cement Mortar Lining (CML), Add	63.92	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	850.70	183.91
		For Cement Mortar Lining (CML), Add	57.21	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.90	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	861.32	193.72
		For Cement Mortar Lining (CML), Add	56.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	894.14	207.53
		For Cement Mortar Lining (CML), Add	57.97	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.48	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,061.09	230.76
		For Cement Mortar Lining (CML), Add	71.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.36	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0394 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,224.66 87.64 65.73	229.88
33 14 13 13-0395 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,261.63 89.85 67.38	239.70
33 14 13 13-0396 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,294.45 91.04 68.28	253.51
33 14 13 13-0397 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,289.70 87.04 65.28	276.74
33 14 13 13-0398 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,566.98 107.78 80.84	322.86
33 14 13 13-0399 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,409.85 197.63 148.22	286.18
33 14 13 13-0400 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,523.25 205.45 154.08	309.41
33 14 13 13-0401 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,479.23 194.06 145.54	355.53
33 14 13 13-0402 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,456.24 184.79 138.59	401.51
33 14 13 13-0403 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,583.89 300.65 225.48	381.11
33 14 13 13-0404 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,033.90 238.68 179.01	427.09
33 14 13 13-0405 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,292.50 259.59 194.69	459.75
33 14 13 13-0406 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,553.63 405.96 304.47	326.06
33 14 13 13-0407 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,551.43 402.22 301.67	349.29
33 14 13 13-0408 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,607.71 400.86 300.65	395.41
33 14 13 13-0409 EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,142.32 447.36 335.52	441.39
33 14 13 13-0410 EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,309.52 359.13 269.34	474.05



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0411 EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,513.18	499.64
For Cement Mortar Lining (CML), Add	375.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	281.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,079.06	348.85
For Cement Mortar Lining (CML), Add	555.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	416.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,915.36	372.08
For Cement Mortar Lining (CML), Add	535.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	401.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,679.22	418.20
For Cement Mortar Lining (CML), Add	504.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	378.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,877.23	464.17
For Cement Mortar Lining (CML), Add	517.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	388.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,986.70	496.84
For Cement Mortar Lining (CML), Add	623.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	467.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,174.60	522.43
For Cement Mortar Lining (CML), Add	538.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	403.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,755.56	536.72
For Cement Mortar Lining (CML), Add	594.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	445.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0420 EA 4" Mechanical Joint Ductile Iron Caps.....	159.34	90.02
For Cement Mortar Lining (CML), Add	2.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 6" Mechanical Joint Ductile Iron Caps.....	211.29	112.52
For Cement Mortar Lining (CML), Add	4.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 8" Mechanical Joint Ductile Iron Caps.....	262.84	128.61
For Cement Mortar Lining (CML), Add	6.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 10" Mechanical Joint Ductile Iron Caps.....	385.38	197.69
For Cement Mortar Lining (CML), Add	8.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 12" Mechanical Joint Ductile Iron Caps.....	455.12	215.66
For Cement Mortar Lining (CML), Add	12.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 14" Mechanical Joint Ductile Iron Caps.....	554.10	237.23
For Cement Mortar Lining (CML), Add	19.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0426 EA 16" Mechanical Joint Ductile Iron Caps.....	660.33	263.56
For Cement Mortar Lining (CML), Add	26.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427 EA 18" Mechanical Joint Ductile Iron Caps.....	768.05	296.54
For Cement Mortar Lining (CML), Add	31.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.91	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0428 EA 20" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	925.75 41.23 30.92	338.87
33 14 13 13-0429 EA 24" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,165.17 56.61 42.46	395.38
33 14 13 13-0430 EA 30" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,013.44 129.46 97.09	474.46
33 14 13 13-0431 EA 36" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,253.11 235.45 176.59	593.09
33 14 13 13-0432 EA 42" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,649.18 357.09 267.81	711.70
33 14 13 13-0433 EA 48" Mechanical Joint Ductile Iron Caps..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,500.85 430.27 322.70	790.78
33 14 13 13-0434 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)		
33 14 13 13-0435 EA 4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	164.44 2.81 2.10	90.02
33 14 13 13-0436 EA 6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	224.89 5.44 4.08	112.52
33 14 13 13-0437 EA 8" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	276.44 8.16 6.12	128.61
33 14 13 13-0438 EA 10" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	440.63 14.11 10.58	197.69
33 14 13 13-0439 EA 12" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	470.41 14.37 10.77	215.66
33 14 13 13-0440 EA 14" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	651.85 29.24 21.93	237.23
33 14 13 13-0441 EA 16" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	436.78 3.74 2.81	263.56
33 14 13 13-0442 EA 18" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	913.40 46.41 34.81	296.54
33 14 13 13-0443 EA 20" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,123.80 61.03 45.77	338.87
33 14 13 13-0444 EA 24" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,445.67 84.66 63.50	395.38



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0445	EA	30" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	2,399.34 168.05	474.46
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	126.03	
33 14 13 13-0446	EA	36" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	3,494.51 259.59	593.09
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	194.69	
33 14 13 13-0447	EA	42" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	4,679.78 360.15	711.70
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	270.11	
33 14 13 13-0448	EA	48" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	5,998.95 480.08	790.78
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	360.06	
33 14 13 13-0449 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)				
33 14 13 13-0450	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	264.09 5.95	135.03
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4.46	
33 14 13 13-0451	EA	6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	338.18 8.25	168.78
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6.18	
33 14 13 13-0452	EA	8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	417.22 12.50	192.87
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9.37	
33 14 13 13-0453	EA	10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	666.90 21.76	296.54
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16.32	
33 14 13 13-0454	EA	12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	768.95 27.88	323.50
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20.91	
33 14 13 13-0455	EA	14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	982.02 44.29	355.85
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33.21	
33 14 13 13-0456	EA	16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	1,104.82 50.58	395.38
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	37.93	
33 14 13 13-0457	EA	18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	1,447.45 77.35	444.81
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	58.01	
33 14 13 13-0458	EA	20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	1,691.64 92.14	508.34
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	69.11	
33 14 13 13-0459	EA	24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	2,033.36 113.48	593.09
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	85.11	
33 14 13 13-0460	EA	30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	3,166.78 208.85	711.70
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	156.63	
33 14 13 13-0461	EA	36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4	4,340.77 299.29	889.62
		For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	224.46	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0462	EA	42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,713.13 417.27 312.95	1,016.69
33 14 13 13-0463	EA	48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,023.02 522.58 391.94	1,186.16
33 14 13 13-0464 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)				
33 14 13 13-0465	EA	4" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	259.84 5.53 4.14	135.03
33 14 13 13-0466	EA	6" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	348.38 9.27 6.95	168.78
33 14 13 13-0467	EA	8" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	444.42 15.22 11.41	192.87
33 14 13 13-0468	EA	10" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	630.35 18.11 13.58	296.54
33 14 13 13-0469	EA	12" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	734.95 24.48 18.36	323.50
33 14 13 13-0470	EA	14" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	908.92 36.98 27.73	355.85
33 14 13 13-0471	EA	16" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,067.42 46.84 35.13	395.38
33 14 13 13-0472	EA	18" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,273.20 59.93 44.94	444.81
33 14 13 13-0473	EA	20" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,493.59 72.34 54.25	508.34
33 14 13 13-0474	EA	24" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,851.46 95.29 71.46	593.09
33 14 13 13-0475	EA	30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,074.13 199.58 149.69	711.70
33 14 13 13-0476	EA	36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,150.37 280.25 210.18	889.62
33 14 13 13-0477	EA	42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,287.21 374.85 281.14	1,015.52
33 14 13 13-0478	EA	48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,062.97 526.58 394.93	1,186.16



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0479		Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0480		Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0479) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0481	EA	4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	21.97	
33 14 13 13-0482	EA	6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	26.55	
33 14 13 13-0483	EA	8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	31.12	
33 14 13 13-0484	EA	10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	43.03	
33 14 13 13-0485	EA	12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	45.77	
33 14 13 13-0486	EA	14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	75.07	
33 14 13 13-0487	EA	16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	79.64	
33 14 13 13-0488	EA	18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	106.19	
33 14 13 13-0489	EA	20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	137.32	
33 14 13 13-0490	EA	24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	191.33	
33 14 13 13-0491	EA	30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	456.80	
33 14 13 13-0492	EA	36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	985.01	
33 14 13 13-0493	EA	42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	1,438.16	
33 14 13 13-0494	EA	48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	1,764.97	
33 14 13 13-0495		Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0479) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0496	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	31.12	
33 14 13 13-0497	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	39.36	
33 14 13 13-0498	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	43.03	
33 14 13 13-0499	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	59.50	
33 14 13 13-0500	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	62.25	
33 14 13 13-0501	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	94.29	
33 14 13 13-0502	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	103.44	
33 14 13 13-0503	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	137.32	
33 14 13 13-0504	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	177.60	
33 14 13 13-0505	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	248.08	
33 14 13 13-0506		Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0479) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0507	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	23.80	
33 14 13 13-0508	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	28.38	
33 14 13 13-0509	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	33.87	
33 14 13 13-0510	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	46.69	
33 14 13 13-0511	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	49.43	
33 14 13 13-0512	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	81.47	
33 14 13 13-0513	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	86.05	
33 14 13 13-0514	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	116.26	
33 14 13 13-0515	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	149.22	
33 14 13 13-0516	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	208.72	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0517 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	499.83	
33 14 13 13-0518 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,107.68	
33 14 13 13-0519 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	1,603.85	
33 14 13 13-0520 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	1,973.69	
33 14 13 13-0521 Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100) (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0522 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	166.89	69.28
33 14 13 13-0523 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	206.97	85.74
33 14 13 13-0524 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	256.17	100.06
33 14 13 13-0525 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	374.14	148.27
33 14 13 13-0526 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	457.14	169.48
33 14 13 13-0527 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	527.73	182.42
33 14 13 13-0528 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	641.95	197.69
33 14 13 13-0529 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	818.67	237.23
33 14 13 13-0530 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	961.18	263.48
33 14 13 13-0531 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	1,236.44	304.00
33 14 13 13-0532 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	2,330.68	364.57
33 14 13 13-0533 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	2,879.99	456.22
33 14 13 13-0534 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	4,205.06	526.40
33 14 13 13-0535 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (Megalug 1100)	5,385.96	677.02
33 14 13 13-0536 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001) Note: .		
33 14 13 13-0537 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0536)		
33 14 13 13-0538 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	277.20	39.99
33 14 13 13-0539 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	428.42	58.59
33 14 13 13-0540 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	579.45	69.75
33 14 13 13-0541 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	785.92	79.08
33 14 13 13-0542 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	991.88	92.56
33 14 13 13-0543 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,393.15	104.24
33 14 13 13-0544 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,685.92	118.62
33 14 13 13-0545 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,051.03	166.24
33 14 13 13-0546 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,556.79	207.58
33 14 13 13-0547 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,604.67	276.77
33 14 13 13-0548 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,682.75	296.54
33 14 13 13-0549 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	8,291.51	308.23
33 14 13 13-0550 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	13,568.82	355.85
33 14 13 13-0551 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	17,696.84	378.32
33 14 13 13-0552 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0536)		
33 14 13 13-0553 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	261.05	39.99
33 14 13 13-0554 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	400.37	58.59
33 14 13 13-0555 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	536.10	69.75
33 14 13 13-0556 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	694.12	79.08
33 14 13 13-0557 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	909.43	92.56
33 14 13 13-0558 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,216.35	104.24
33 14 13 13-0559 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,453.02	118.62
33 14 13 13-0560 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,733.98	166.24
33 14 13 13-0561 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,108.84	207.58
33 14 13 13-0562 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,781.02	276.77
33 14 13 13-0563 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,988.30	296.54
33 14 13 13-0564 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	6,835.46	308.23
33 14 13 13-0565 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	10,095.72	355.85
33 14 13 13-0566 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	12,877.34	378.32
33 14 13 13-0567 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0536)		
33 14 13 13-0568 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	258.50	39.99
33 14 13 13-0569 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	390.17	58.59
33 14 13 13-0570 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	532.70	69.75
33 14 13 13-0571 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	693.27	79.08
33 14 13 13-0572 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	860.13	92.56
33 14 13 13-0573 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,223.15	104.24
33 14 13 13-0574 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,422.42	118.62
33 14 13 13-0575 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,726.33	166.24
33 14 13 13-0576 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,179.39	207.58



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0577	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,724.92	276.77
33 14 13 13-0578	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,458.75	296.54
33 14 13 13-0579	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	6,027.96	308.23
33 14 13 13-0580	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,575.07	355.85
33 14 13 13-0581	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	10,933.39	378.32
33 14 13 13-0582 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0536)				
33 14 13 13-0583	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	305.25	39.99
33 14 13 13-0584	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	393.57	58.59
33 14 13 13-0585	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	517.40	69.75
33 14 13 13-0586	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	691.57	79.08
33 14 13 13-0587	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	837.18	92.56
33 14 13 13-0588	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,312.40	104.24
33 14 13 13-0589	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,464.07	118.62
33 14 13 13-0590	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,967.73	166.24
33 14 13 13-0591	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,106.29	207.58
33 14 13 13-0592	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,725.77	276.77
33 14 13 13-0593	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,514.85	296.54
33 14 13 13-0594	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,867.31	308.23
33 14 13 13-0595	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	8,345.57	355.85
33 14 13 13-0596	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	10,872.19	378.32
33 14 13 13-0597 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0536)				
33 14 13 13-0598	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	296.75	39.99
33 14 13 13-0599	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	460.72	58.59
33 14 13 13-0600	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	620.25	69.75
33 14 13 13-0601	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	845.42	79.08
33 14 13 13-0602	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,057.33	92.56
33 14 13 13-0603	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,863.20	104.24
33 14 13 13-0604	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,881.87	118.62
33 14 13 13-0605	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,311.58	166.24
33 14 13 13-0606	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,826.69	207.58
33 14 13 13-0607	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,169.07	276.77
33 14 13 13-0608 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0536)				
33 14 13 13-0609	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	264.45	39.99
33 14 13 13-0610	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	413.97	58.59
33 14 13 13-0611	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	577.75	69.75
33 14 13 13-0612	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	759.57	79.08
33 14 13 13-0613	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	982.53	92.56
33 14 13 13-0614	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,297.94	104.24
33 14 13 13-0615	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,555.87	118.62
33 14 13 13-0616	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,878.07	166.24
33 14 13 13-0617	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,039.59	207.58
33 14 13 13-0618	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,201.77	276.77
33 14 13 13-0619 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee (33 14 13 13-0536)				
33 14 13 13-0620	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	335.77	58.59
33 14 13 13-0621	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	510.71	77.19
33 14 13 13-0622	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	541.66	86.48
33 14 13 13-0623	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	623.68	89.27
33 14 13 13-0624	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	675.88	98.57
33 14 13 13-0625	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	741.29	105.08

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0626 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	826.02	97.95
33 14 13 13-0627 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	830.15	106.94
33 14 13 13-0628 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	897.80	113.23
33 14 13 13-0629 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	966.82	118.62
33 14 13 13-0630 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	989.34	109.63
33 14 13 13-0631 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,002.81	118.62
33 14 13 13-0632 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,082.36	124.91
33 14 13 13-0633 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,239.78	130.29
33 14 13 13-0634 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,246.22	136.58
33 14 13 13-0635 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,402.30	138.38
33 14 13 13-0636 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,514.15	144.67
33 14 13 13-0637 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,822.88	150.06
33 14 13 13-0638 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,922.82	156.35
33 14 13 13-0639 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,794.04	166.24
33 14 13 13-0640 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,677.82	166.24
33 14 13 13-0641 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,766.80	171.63
33 14 13 13-0642 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,102.73	177.92
33 14 13 13-0643 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,982.52	183.31
33 14 13 13-0644 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,559.23	193.20
33 14 13 13-0645 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,334.50	207.58
33 14 13 13-0646 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,199.65	212.97
33 14 13 13-0647 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,316.59	218.36
33 14 13 13-0648 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,463.83	223.75
33 14 13 13-0649 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,600.31	230.04
33 14 13 13-0650 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,673.83	239.93
33 14 13 13-0651 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,855.40	253.41
33 14 13 13-0652 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,183.85	276.77
33 14 13 13-0653 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,564.65	304.63
33 14 13 13-0654 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,608.50	310.92
33 14 13 13-0655 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,851.77	316.31
33 14 13 13-0656 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,986.56	322.60
33 14 13 13-0657 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,020.14	332.49
33 14 13 13-0658 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,992.60	345.97
33 14 13 13-0659 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,782.60	369.33
33 14 13 13-0660 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,284.68	415.15
33 14 13 13-0661 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,128.98	396.28
33 14 13 13-0662 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,160.06	403.47
33 14 13 13-0663 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,216.35	407.96
33 14 13 13-0664 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,298.42	414.26
33 14 13 13-0665 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,723.85	424.14
33 14 13 13-0666 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,881.63	437.62
33 14 13 13-0667 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,731.13	460.99
33 14 13 13-0668 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,903.00	507.71
33 14 13 13-0669 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,645.41	553.55
33 14 13 13-0670 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,339.37	461.88
33 14 13 13-0671 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,100.17	468.17
33 14 13 13-0672 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,378.30	473.57
33 14 13 13-0673 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,657.59	479.86
33 14 13 13-0674 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,054.95	489.74
33 14 13 13-0675 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,485.57	651.49
33 14 13 13-0676 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,471.47	526.59
33 14 13 13-0677 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,491.20	572.42
33 14 13 13-0678 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,775.91	618.25
33 14 13 13-0679 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,037.51	651.49
33 14 13 13-0680 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,535.54	519.40
33 14 13 13-0681 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,161.32	524.79
33 14 13 13-0682 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,500.96	531.08
33 14 13 13-0683 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,744.47	540.96
33 14 13 13-0684 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,991.50	554.44
33 14 13 13-0685 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,465.30	577.81
33 14 13 13-0686 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,974.62	623.64
33 14 13 13-0687 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,823.73	669.46
33 14 13 13-0688 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,934.04	727.87
33 14 13 13-0689 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,399.09	727.87
33 14 13 13-0690 EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,824.09	559.84
33 14 13 13-0691 EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,081.21	568.82
33 14 13 13-0692 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,361.83	583.20
33 14 13 13-0693 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,336.73	606.57
33 14 13 13-0694 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,406.60	652.39
33 14 13 13-0695 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,662.76	698.22
33 14 13 13-0696 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,918.82	731.47
33 14 13 13-0697 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,158.67	756.63
33 14 13 13-0698 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,071.14	771.01
33 14 13 13-0699 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,928.03	604.77
33 14 13 13-0700 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,195.36	614.65
33 14 13 13-0701 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,574.98	629.03
33 14 13 13-0702 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,966.33	651.49
33 14 13 13-0703 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,394.90	698.22
33 14 13 13-0704 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,512.16	744.05
33 14 13 13-0705 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,716.82	776.40
33 14 13 13-0706 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,349.63	802.46



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0707	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,886.89	816.84
33 14 13 13-0708	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,688.66	839.30
33 14 13 13-0709 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0536)				
33 14 13 13-0710	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	413.97	58.59
33 14 13 13-0711	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	512.41	77.19
33 14 13 13-0712	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	622.41	86.48
33 14 13 13-0713	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	804.73	89.27
33 14 13 13-0714	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	750.68	98.57
33 14 13 13-0715	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	840.74	105.08
33 14 13 13-0716	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,165.17	97.95
33 14 13 13-0717	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,216.05	106.94
33 14 13 13-0718	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,356.80	113.23
33 14 13 13-0719	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,478.52	118.62
33 14 13 13-0720	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,416.89	109.63
33 14 13 13-0721	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,603.76	118.62
33 14 13 13-0722	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,889.86	124.91
33 14 13 13-0723	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,894.28	130.29
33 14 13 13-0724	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,756.22	136.58
33 14 13 13-0725	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,075.50	138.38
33 14 13 13-0726	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,378.60	144.67
33 14 13 13-0727	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,114.03	150.06
33 14 13 13-0728	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,337.22	156.35
33 14 13 13-0729	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,258.59	166.24
33 14 13 13-0730	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,171.75	166.24
33 14 13 13-0731	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,393.25	171.63
33 14 13 13-0732	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,827.78	177.92
33 14 13 13-0733	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,917.52	183.31
33 14 13 13-0734	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,597.08	193.20
33 14 13 13-0735	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,414.00	207.58
33 14 13 13-0736	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,066.65	212.97
33 14 13 13-0737	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,302.59	218.36
33 14 13 13-0738	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,530.58	223.75
33 14 13 13-0739	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,777.56	230.04
33 14 13 13-0740	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,819.63	239.93
33 14 13 13-0741	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,868.60	253.41
33 14 13 13-0742	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,528.95	276.77
33 14 13 13-0743	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,637.35	304.63
33 14 13 13-0744	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,716.90	310.92
33 14 13 13-0745	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,082.57	316.31
33 14 13 13-0746	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,445.16	322.60
33 14 13 13-0747	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,489.79	332.49
33 14 13 13-0748	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,543.00	345.97
33 14 13 13-0749	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,263.30	369.33
33 14 13 13-0750	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,986.38	415.15
33 14 13 13-0751	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,421.83	396.28
33 14 13 13-0752	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,479.26	402.57
33 14 13 13-0753	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,987.75	407.96
33 14 13 13-0754	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,220.27	414.26
33 14 13 13-0755	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,026.50	424.14
33 14 13 13-0756	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,695.98	437.62
33 14 13 13-0757	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,491.93	460.99
33 14 13 13-0758	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,231.60	507.71
33 14 13 13-0759	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,304.21	553.55
33 14 13 13-0760	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,128.67	461.88
33 14 13 13-0761	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,234.17	468.17
33 14 13 13-0762	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,828.50	473.57
33 14 13 13-0763	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,423.99	479.86
33 14 13 13-0764	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,268.45	489.74
33 14 13 13-0765	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,177.62	503.22
33 14 13 13-0766	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,510.32	526.59
33 14 13 13-0767	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,995.85	572.42
33 14 13 13-0768	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	14,664.76	618.25
33 14 13 13-0769	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,894.06	651.49
33 14 13 13-0770	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,438.76	531.08
33 14 13 13-0771	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,122.57	540.96
33 14 13 13-0772	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,803.95	554.44
33 14 13 13-0773	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,118.40	577.81
33 14 13 13-0774	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,472.62	623.64
33 14 13 13-0775	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,818.58	669.46
33 14 13 13-0776	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	26,682.44	702.71
33 14 13 13-0777	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,844.14	727.87
33 14 13 13-0778	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,021.00	652.39
33 14 13 13-0779	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,720.51	698.22
33 14 13 13-0780	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,679.12	731.47
33 14 13 13-0781	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,084.32	756.63
33 14 13 13-0782	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	41,381.54	771.01
33 14 13 13-0783	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,642.95	698.22
33 14 13 13-0784	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,308.11	744.05

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0785	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	.....	33,367.87	776.40
33 14 13 13-0786	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	.....	38,037.43	802.46
33 14 13 13-0787	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	.....	49,736.39	816.84
33 14 13 13-0788	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	.....	54,604.86	839.30
33 14 13 13-0789 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0536)					
33 14 13 13-0790	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	573.11		86.48
33 14 13 13-0791	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	708.18		98.57
33 14 13 13-0792	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,000.15		106.94
33 14 13 13-0793	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,149.01		118.62
33 14 13 13-0794	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,510.25		138.38
33 14 13 13-0795	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,838.55		166.24
33 14 13 13-0796	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,178.40		212.97
33 14 13 13-0797	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,937.80		304.63
33 14 13 13-0798	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	3,439.37		396.28
33 14 13 13-0799	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	6,137.52		461.88
33 14 13 13-0800 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0536)					
33 14 13 13-0801	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	500.05		73.47
33 14 13 13-0802	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	623.94		98.57
33 14 13 13-0803	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	695.99		122.75
33 14 13 13-0804	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	664.26		107.87
33 14 13 13-0805	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	785.60		132.05
33 14 13 13-0806	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	782.57		141.35
33 14 13 13-0807	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	777.25		115.03
33 14 13 13-0808	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	876.10		138.38
33 14 13 13-0809	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,032.39		147.37
33 14 13 13-0810	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,117.72		158.15
33 14 13 13-0811	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	987.71		124.91
33 14 13 13-0812	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,145.20		148.27
33 14 13 13-0813	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,241.14		157.25
33 14 13 13-0814	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,440.38		168.04
33 14 13 13-0815	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,638.08		177.92
33 14 13 13-0816	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,683.61		162.64
33 14 13 13-0817	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,986.10		171.63
33 14 13 13-0818	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,037.44		183.31
33 14 13 13-0819	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,150.14		192.30
33 14 13 13-0820	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,379.99		207.58
33 14 13 13-0821	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,885.04		184.21
33 14 13 13-0822	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,148.43		192.30
33 14 13 13-0823	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,577.16		203.98
33 14 13 13-0824	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	2,875.17		213.87
33 14 13 13-0825	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,478.18		228.25
33 14 13 13-0826	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,635.41		248.91
33 14 13 13-0827	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,207.46		217.46
33 14 13 13-0828	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,391.80		226.45
33 14 13 13-0829	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,551.09		237.23
33 14 13 13-0830	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	3,852.49		247.12
33 14 13 13-0831	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,500.55		261.50
33 14 13 13-0832	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,789.53		282.16
33 14 13 13-0833	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,011.20		316.31
33 14 13 13-0834	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,032.56		273.18
33 14 13 13-0835	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,218.60		281.27
33 14 13 13-0836	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,348.13		292.95
33 14 13 13-0837	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,646.99		302.83
33 14 13 13-0838	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	4,727.24		317.21
33 14 13 13-0839	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,727.68		337.88
33 14 13 13-0840	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,949.35		371.13
33 14 13 13-0841	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,432.74		426.84
33 14 13 13-0842	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,504.76		341.48
33 14 13 13-0843	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,633.27		350.46
33 14 13 13-0844	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	5,848.38		361.25
33 14 13 13-0845	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,034.19		371.13
33 14 13 13-0846	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,141.64		385.50
33 14 13 13-0847	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,373.67		406.17
33 14 13 13-0848	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,448.35		440.32
33 14 13 13-0849	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	8,901.99		495.13



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 14 13 13-0850	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,804.69		563.43
33 14 13 13-0851	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,505.67		453.80
33 14 13 13-0852	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,675.16		464.58
33 14 13 13-0853	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,841.42		474.46
33 14 13 13-0854	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,038.97		488.84
33 14 13 13-0855	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,266.75		510.41
33 14 13 13-0856	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,535.17		543.66
33 14 13 13-0857	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,879.17		598.48
33 14 13 13-0858	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,686.72		667.66
33 14 13 13-0859	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	14,588.69		771.01
33 14 13 13-0860	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,853.02		491.54
33 14 13 13-0861	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,020.80		502.32
33 14 13 13-0862	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,165.81		512.21
33 14 13 13-0863	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,339.55		527.48
33 14 13 13-0864	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,544.39		548.15
33 14 13 13-0865	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,789.87		581.40
33 14 13 13-0866	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,112.61		637.11
33 14 13 13-0867	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,671.06		705.41
33 14 13 13-0868	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,396.74		808.75
33 14 13 13-0869	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,208.12		847.39
33 14 13 13-0870	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,893.35		534.67
33 14 13 13-0871	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,226.05		549.05
33 14 13 13-0872	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,424.94		570.62
33 14 13 13-0873	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,702.71		603.87
33 14 13 13-0874	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,201.40		659.58
33 14 13 13-0875	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,234.15		727.87
33 14 13 13-0876	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,143.83		831.22
33 14 13 13-0877	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,895.42		868.96
33 14 13 13-0878	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,957.81		891.42
33 14 13 13-0879	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,476.35		622.74
33 14 13 13-0880	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,622.90		637.11
33 14 13 13-0881	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,819.23		657.78
33 14 13 13-0882	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,035.80		691.03
33 14 13 13-0883	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,327.96		746.74
33 14 13 13-0884	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,824.35		815.04
33 14 13 13-0885	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,162.78		918.38
33 14 13 13-0886	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,586.67		957.02
33 14 13 13-0887	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	38,011.32		979.48
33 14 13 13-0888	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	40,485.00		1,066.65
33 14 13 13-0889		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0536)			
33 14 13 13-0890	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	348.87		48.36
33 14 13 13-0891	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	453.45		54.87
33 14 13 13-0892	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	474.96		64.17
33 14 13 13-0893	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	551.91		58.41
33 14 13 13-0894	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	580.68		67.40
33 14 13 13-0895	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	605.83		73.69
33 14 13 13-0896	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	636.54		64.70
33 14 13 13-0897	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	705.27		73.69
33 14 13 13-0898	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	719.37		79.08
33 14 13 13-0899	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	752.70		85.37
33 14 13 13-0900	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,087.34		83.57
33 14 13 13-0901	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,096.34		88.97
33 14 13 13-0902	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	963.07		95.26
33 14 13 13-0903	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	984.80		100.65
33 14 13 13-0904	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,302.06		97.05
33 14 13 13-0905	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,267.71		103.34
33 14 13 13-0906	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,196.49		108.74
33 14 13 13-0907	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,185.93		114.13
33 14 13 13-0908	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,338.50		124.01

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0909 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,426.16	125.81
33 14 13 13-0910 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,603.14	132.09
33 14 13 13-0911 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,537.33	137.48
33 14 13 13-0912 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,829.29	147.37
33 14 13 13-0913 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,618.16	161.75
33 14 13 13-0914 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,901.49	172.53
33 14 13 13-0915 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,918.66	177.92
33 14 13 13-0916 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,754.25	184.21
33 14 13 13-0917 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,758.07	194.10
33 14 13 13-0918 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,724.59	207.58
33 14 13 13-0919 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,032.64	230.94
33 14 13 13-0920 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,401.91	230.04
33 14 13 13-0921 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,440.58	239.93
33 14 13 13-0922 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,488.70	253.41
33 14 13 13-0923 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,464.40	276.77
33 14 13 13-0924 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,844.53	322.60
33 14 13 13-0925 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,314.70	285.76
33 14 13 13-0926 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,503.75	309.12
33 14 13 13-0927 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,367.93	355.85
33 14 13 13-0928 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,752.49	401.67
33 14 13 13-0929 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,692.74	381.01
33 14 13 13-0930 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,328.05	426.84
33 14 13 13-0931 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,690.35	460.09
33 14 13 13-0932 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,302.98	326.20
33 14 13 13-0933 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,266.78	349.56
33 14 13 13-0934 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,310.31	395.38
33 14 13 13-0935 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,651.12	441.21
33 14 13 13-0936 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,126.42	474.46
33 14 13 13-0937 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,459.28	499.63
33 14 13 13-0938 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,432.76	348.66
33 14 13 13-0939 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,112.66	372.03
33 14 13 13-0940 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,636.82	417.85
33 14 13 13-0941 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,935.13	464.58
33 14 13 13-0942 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,875.90	496.93
33 14 13 13-0943 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,316.65	522.09
33 14 13 13-0944 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,327.71	536.47
33 14 13 13-0945 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0536)		
33 14 13 13-0946 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	279.19	90.20
33 14 13 13-0947 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	398.29	112.52
33 14 13 13-0948 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	522.09	128.33
33 14 13 13-0949 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	711.78	197.69
33 14 13 13-0950 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	879.26	215.66
33 14 13 13-0951 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	995.25	237.23
33 14 13 13-0952 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,197.53	263.29
33 14 13 13-0953 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,396.20	296.54



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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 14 13 13-0954	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,673.75	338.78
33 14 13 13-0955	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,124.82	395.38
33 14 13 13-0956	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,723.64	474.46
33 14 13 13-0957	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	6,003.71	593.09
33 14 13 13-0958	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	8,575.33	711.70
33 14 13 13-0959	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	10,180.10	790.78
33 14 13 13-0960 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0536)				
33 14 13 13-0961	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	287.69	90.20
33 14 13 13-0962	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	420.39	112.52
33 14 13 13-0963	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	544.19	128.33
33 14 13 13-0964	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	838.43	197.69
33 14 13 13-0965	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	908.16	215.66
33 14 13 13-0966	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,179.70	237.23
33 14 13 13-0967	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,410.88	263.29
33 14 13 13-0968	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,669.05	296.54
33 14 13 13-0969	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,042.65	338.78
33 14 13 13-0970	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,650.12	395.38
33 14 13 13-0971	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,449.54	474.46
33 14 13 13-0972	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	6,455.06	593.09
33 14 13 13-0973	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	8,632.28	711.70
33 14 13 13-0974	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	11,387.95	790.78
33 14 13 13-0975 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0536)				
33 14 13 13-0976	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	417.94	134.84
33 14 13 13-0977	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	565.98	169.25
33 14 13 13-0978	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	728.32	192.50
33 14 13 13-0979	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,085.10	296.54
33 14 13 13-0980	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,278.95	323.50
33 14 13 13-0981	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,635.67	355.85
33 14 13 13-0982	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,851.97	395.38
33 14 13 13-0983	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,389.25	444.81
33 14 13 13-0984	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,766.89	508.61
33 14 13 13-0985	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,337.26	593.09
33 14 13 13-0986	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,128.58	711.70
33 14 13 13-0987	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,933.27	889.62
33 14 13 13-0988	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	9,327.33	1,016.33
33 14 13 13-0989	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	11,550.12	1,186.16
33 14 13 13-0990 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0536)				
33 14 13 13-0991	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	405.19	134.84
33 14 13 13-0992	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	580.43	169.25
33 14 13 13-0993	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	767.42	192.50
33 14 13 13-0994	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,030.70	296.54
33 14 13 13-0995	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,227.95	323.50
33 14 13 13-0996	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,526.87	355.85
33 14 13 13-0997	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,794.17	395.38
33 14 13 13-0998	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,127.45	444.81
33 14 13 13-0999	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,471.94	508.61
33 14 13 13-1000	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,066.96	593.09
33 14 13 13-1001	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,988.33	711.70
33 14 13 13-1002	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	6,464.92	889.62
33 14 13 13-1003	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	8,337.86	1,015.43
33 14 13 13-1004	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	12,208.87	1,186.16
33 14 13 13-1005 Push-On Joint Ductile Iron Piping (33 14 13 13-0001)				
33 14 13 13-1006 Push-On Joint Ductile Iron Pipe (33 14 13 13-1005)				
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D class 50.				

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1007	LF		4" Push-On Joint Ductile Iron Pipe.....	24.58	7.67
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.07	
			For Cement Mortar Lining (CML), Add	1.30	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	0.97	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.23	
			For Class 51, Add	1.26	
			For Class 52, Add	2.82	
			For Class 53, Add	7.38	
			For Class 54, Add	10.51	
			For Class 55, Add	12.11	
			For Class 56, Add	13.68	
33 14 13 13-1008	LF		6" Push-On Joint Ductile Iron Pipe.....	26.96	8.46
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	9.95	
			For Cement Mortar Lining (CML), Add	1.42	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.07	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.35	
			For Class 51, Add	1.39	
			For Class 52, Add	3.09	
			For Class 53, Add	8.10	
			For Class 54, Add	11.54	
			For Class 55, Add	13.29	
			For Class 56, Add	15.01	
33 14 13 13-1009	LF		8" Push-On Joint Ductile Iron Pipe.....	33.39	9.30
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.61	
			For Cement Mortar Lining (CML), Add	1.94	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.46	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-1.67	
			For Class 51, Add	1.85	
			For Class 52, Add	4.14	
			For Class 53, Add	10.94	
			For Class 54, Add	15.60	
			For Class 55, Add	17.95	
			For Class 56, Add	20.26	
33 14 13 13-1010	LF		10" Push-On Joint Ductile Iron Pipe.....	47.63	13.39
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.45	
			For Cement Mortar Lining (CML), Add	2.74	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.06	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.38	
			For Class 51, Add	2.62	
			For Class 52, Add	5.85	
			For Class 53, Add	15.45	
			For Class 54, Add	22.03	
			For Class 55, Add	25.35	
			For Class 56, Add	28.62	
33 14 13 13-1011	LF		12" Push-On Joint Ductile Iron Pipe.....	55.16	14.82
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.35	
			For Cement Mortar Lining (CML), Add	3.27	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.45	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-2.76	
			For Class 51, Add	3.10	
			For Class 52, Add	6.94	
			For Class 53, Add	18.36	
			For Class 54, Add	26.18	
			For Class 55, Add	30.12	
			For Class 56, Add	34.00	
33 14 13 13-1012	LF		14" Push-On Joint Ductile Iron Pipe.....	66.91	16.72
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	18.33	
			For Cement Mortar Lining (CML), Add	4.17	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.12	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-3.35	
			For Class 51, Add	3.91	
			For Class 52, Add	8.76	
			For Class 53, Add	23.27	
			For Class 54, Add	33.19	
			For Class 55, Add	38.18	
			For Class 56, Add	43.07	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1013 LF 16" Push-On Joint Ductile Iron Pipe.....	79.15	19.06
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.63	
For Cement Mortar Lining (CML), Add	5.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.77	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.96	
For Class 51, Add	4.70	
For Class 52, Add	10.54	
For Class 53, Add	28.04	
For Class 54, Add	40.00	
For Class 55, Add	46.00	
For Class 56, Add	51.89	
33 14 13 13-1014 LF 18" Push-On Joint Ductile Iron Pipe.....	92.11	22.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.95	
For Cement Mortar Lining (CML), Add	5.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.61	
For Class 51, Add	5.46	
For Class 52, Add	12.24	
For Class 53, Add	32.57	
For Class 54, Add	46.46	
For Class 55, Add	53.43	
For Class 56, Add	60.27	
33 14 13 13-1015 LF 20" Push-On Joint Ductile Iron Pipe.....	106.53	26.69
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.11	
For Cement Mortar Lining (CML), Add	6.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.96	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.33	
For Class 51, Add	6.21	
For Class 52, Add	13.91	
For Class 53, Add	36.93	
For Class 54, Add	52.67	
For Class 55, Add	60.59	
For Class 56, Add	68.36	
33 14 13 13-1016 LF 24" Push-On Joint Ductile Iron Pipe.....	134.67	33.34
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.06	
For Cement Mortar Lining (CML), Add	8.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.31	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.73	
For Class 51, Add	7.89	
For Class 52, Add	17.67	
For Class 53, Add	46.96	
For Class 54, Add	66.97	
For Class 55, Add	77.03	
For Class 56, Add	86.91	
33 14 13 13-1017 LF 30" Push-On Joint Ductile Iron Pipe.....	158.57	35.59
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	32.44	
For Cement Mortar Lining (CML), Add	10.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.85	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.93	
For Class 51, Add	9.71	
For Class 52, Add	21.77	
For Class 53, Add	58.10	
For Class 54, Add	82.90	
For Class 55, Add	95.31	
For Class 56, Add	107.49	
33 14 13 13-1018 LF 36" Push-On Joint Ductile Iron Pipe.....	195.10	37.83
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.71	
For Cement Mortar Lining (CML), Add	13.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.33	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.76	
For Class 51, Add	12.61	
For Class 52, Add	28.31	
For Class 53, Add	75.98	
For Class 54, Add	108.45	
For Class 55, Add	124.61	
For Class 56, Add	140.49	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1019 LF 42" Push-On Joint Ductile Iron Pipe.....	236.33	40.08
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	54.46	
For Cement Mortar Lining (CML), Add	17.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.18	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.82	
For Class 51, Add	15.92	
For Class 52, Add	35.79	
For Class 53, Add	96.42	
For Class 54, Add	137.67	
For Class 55, Add	158.13	
For Class 56, Add	178.21	
33 14 13 13-1020 LF 48" Push-On Joint Ductile Iron Pipe.....	283.08	42.24
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	67.89	
For Cement Mortar Lining (CML), Add	21.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.43	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-14.15	
For Class 51, Add	19.70	
For Class 52, Add	44.33	
For Class 53, Add	119.77	
For Class 54, Add	171.05	
For Class 55, Add	196.40	
For Class 56, Add	221.30	
33 14 13 13-1021 LF 54" Push-On Joint Ductile Iron Pipe.....	356.70	44.48
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	89.68	
For Cement Mortar Lining (CML), Add	28.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.70	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-17.84	
For Class 51, Add	25.81	
For Class 52, Add	58.13	
For Class 53, Add	157.56	
For Class 54, Add	225.09	
For Class 55, Add	258.36	
For Class 56, Add	291.03	
33 14 13 13-1022 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1005)		
33 14 13 13-1023 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	154.20	29.95
For Cement Mortar Lining (CML), Add	10.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1024 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	223.82	44.17
For Cement Mortar Lining (CML), Add	15.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1025 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	297.10	52.45
For Cement Mortar Lining (CML), Add	21.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1026 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	451.23	59.13
For Cement Mortar Lining (CML), Add	32.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1027 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	578.57	69.37
For Cement Mortar Lining (CML), Add	43.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1028 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron	1,115.34	77.81
For Cement Mortar Lining (CML), Add	95.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1029 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron	1,261.33	88.97
For Cement Mortar Lining (CML), Add	107.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	80.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1030 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron	1,957.75	124.54
For Cement Mortar Lining (CML), Add	170.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1031 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron	2,208.04	156.98
For Cement Mortar Lining (CML), Add	189.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.06	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1032	EA	24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,757.18 236.48 177.36	196.25
33 14 13 13-1033 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1005)				
33 14 13 13-1034	EA	4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	129.45 8.41 6.31	29.95
33 14 13 13-1035	EA	6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	190.55 12.36 9.27	44.17
33 14 13 13-1036	EA	8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	261.30 18.18 13.63	52.45
33 14 13 13-1037	EA	10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	401.81 27.95 20.96	59.13
33 14 13 13-1038	EA	12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	515.59 37.22 27.92	69.37
33 14 13 13-1039	EA	14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	722.09 56.12 42.09	77.81
33 14 13 13-1040	EA	16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,055.41 87.16 65.37	88.97
33 14 13 13-1041	EA	18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,225.21 96.79 72.59	124.54
33 14 13 13-1042	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,706.50 139.26 104.44	156.98
33 14 13 13-1043	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,118.39 172.60 129.45	196.25
33 14 13 13-1044 Push-On Joint Ductile Iron Tee (33 14 13 13-1005)				
33 14 13 13-1045	EA	4" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	235.22 16.83 12.62	44.17
33 14 13 13-1046	EA	6" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	328.63 23.02 17.27	64.91
33 14 13 13-1047	EA	8" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	445.72 32.64 24.48	78.67
33 14 13 13-1048	EA	10" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	648.41 51.36 38.52	89.86
33 14 13 13-1049	EA	12" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	804.97 64.77 48.58	103.60

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1050 EA 14" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,281.30 109.26 81.94	124.54
33 14 13 13-1051 EA 16" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,843.38 160.75 120.56	155.73
33 14 13 13-1052 EA 18" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,321.23 200.64 150.48	207.76
33 14 13 13-1053 EA 20" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,738.44 235.44 176.58	253.49
33 14 13 13-1054 EA 24" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,581.30 310.13 232.59	316.85
33 14 13 13-1055 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1005)		
33 14 13 13-1056 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	266.21 10.88 8.16	103.88
33 14 13 13-1057 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	326.77 13.19 9.89	128.61
33 14 13 13-1058 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	416.96 18.96 14.22	150.00
33 14 13 13-1059 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	584.34 24.74 18.55	222.41
33 14 13 13-1060 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	698.44 31.33 23.50	254.22
33 14 13 13-1061 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	794.03 37.93 28.45	273.72
33 14 13 13-1062 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	927.53 47.82 35.87	296.54
33 14 13 13-1063 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,099.85 56.07 42.05	355.85
33 14 13 13-1064 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,266.94 66.79 50.09	395.38
33 14 13 13-1065 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,565.24 87.40 65.55	456.22
33 14 13 13-1066 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,398.08 156.86 117.65	547.43



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1067	EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,274.98 223.81 167.86	684.29
33 14 13 13-1068	EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,096.23 289.81 217.36	790.78
33 14 13 13-1069	EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,232.42 369.19 276.90	1,016.69
33 14 13 13-1070	EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,328.69 453.10 339.82	1,186.43
33 14 13 13-1071 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1005) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.			
33 14 13 13-1072	EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	33.52	11.25
33 14 13 13-1073	EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	37.10	11.25
33 14 13 13-1074	EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	50.09	16.18
33 14 13 13-1075	EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	59.98	17.79
33 14 13 13-1076	EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	71.15	19.77
33 14 13 13-1077	EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	89.41	22.20
33 14 13 13-1078	EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	105.37	25.43
33 14 13 13-1079	EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	121.82	29.66
33 14 13 13-1080	EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	142.29	35.59
33 14 13 13-1081	EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	167.55	35.59
33 14 13 13-1082	EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	221.29	44.48
33 14 13 13-1083	EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	279.94	44.48
33 14 13 13-1084	EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	360.38	59.31
33 14 13 13-1085	EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	412.50	59.31
33 14 13 13-1086	EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	556.73	59.31
33 14 13 13-1087 Push-On Joint Ductile Iron Bell Restraint Harness (Megalug 1700) (33 14 13 13-1005)			
33 14 13 13-1088	EA 4" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	168.16	60.65
33 14 13 13-1089	EA 6" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	218.84	74.05
33 14 13 13-1090	EA 8" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	279.43	90.31
33 14 13 13-1091	EA 10" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	409.22	110.17
33 14 13 13-1092	EA 12" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	506.57	134.34
33 14 13 13-1093	EA 14" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	842.09	163.91
33 14 13 13-1094	EA 16" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	967.34	200.03
33 14 13 13-1095	EA 18" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	1,106.06	243.98
33 14 13 13-1096	EA 20" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	1,487.64	297.71
33 14 13 13-1097	EA 24" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	1,889.93	363.13
33 14 13 13-1098	EA 30" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	3,176.94	443.11
33 14 13 13-1099	EA 36" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	4,466.95	540.51
33 14 13 13-1100	EA 42" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	7,965.09	659.49
33 14 13 13-1101	EA 48" Bell Restraint Harness, Ductile Iron (Megalug 1700).....	10,281.90	804.53
33 14 13 13-1102 Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.			
33 14 13 13-1103 Ductile Iron Pipe Repair (33 14 13 13-1102) Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.			
33 14 13 13-1104	EA 30" Diameter Mechanical Ductile Iron Push Joint	2,428.63	
33 14 13 13-1105	EA 36" Diameter Mechanical Ductile Iron Push Joint	3,068.42	
33 14 13 13-1106	EA 42" Diameter Mechanical Ductile Iron Push Joint	3,850.75	
33 14 13 13-1107	EA 48" Diameter Mechanical Ductile Iron Push Joint	4,824.91	
33 14 13 13-1108	EA 54" Diameter Mechanical Ductile Iron Push Joint	6,951.52	
33 14 13 13-1109 WEKO Seals (33 14 13 13-1102) Note: Internal joint seal.			
33 14 13 13-1110	EA 16" WEKO Internal Joint Seal..... For Extra Wide Seals, Add	1,311.61 82.96	171.11
33 14 13 13-1111	EA 18" WEKO Internal Joint Seal..... For Extra Wide Seals, Add	1,396.83 83.69	180.67
33 14 13 13-1112	EA 20" WEKO Internal Joint Seal..... For Extra Wide Seals, Add	1,481.91 84.41	190.24
33 14 13 13-1113	EA 24" WEKO Internal Joint Seal..... For Extra Wide Seals, Add	1,571.28 85.57	205.47
33 14 13 13-1114	EA 30" WEKO Internal Joint Seal..... For Extra Wide Seals, Add	1,624.81 86.72	220.68

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1115 EA 36" WEKO Internal Joint Seal <i>For Extra Wide Seals, Add</i>	1,707.40 88.16	239.71
33 14 13 13-1116 EA 42" WEKO Internal Joint Seal <i>For Extra Wide Seals, Add</i>	1,822.64 89.89	262.54
33 14 13 13-1117 EA 48" WEKO Internal Joint Seal <i>For Extra Wide Seals, Add</i>	1,967.96 91.33	281.57
33 14 13 13-1118 EA 54" WEKO Internal Joint Seal <i>For Extra Wide Seals, Add</i>	2,043.01 92.48	296.78
33 14 13 13-1119 EA 60" WEKO Internal Joint Seal <i>For Extra Wide Seals, Add</i>	2,133.16 94.21	319.62
33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23) <i>Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.</i>		
33 14 13 23-0002 AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 4" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	7.76	2.88
33 14 13 23-0004 LF 6" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	11.06	3.48
33 14 13 23-0005 LF 8" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	14.88	3.92
33 14 13 23-0006 LF 10" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	19.34	4.36
33 14 13 23-0007 LF 12" AWWA C900, DR 25, PR 100 Polyvinyl Chloride (PVC) Pipe	24.79	4.88
33 14 13 23-0008 AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0009 LF 4" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	8.47	2.88
33 14 13 23-0010 LF 6" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	12.55	3.48
33 14 13 23-0011 LF 8" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	17.39	3.92
33 14 13 23-0012 LF 10" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	23.24	4.36
33 14 13 23-0013 LF 12" AWWA C900, DR 18, PR 150 Polyvinyl Chloride (PVC) Pipe	30.24	4.88
33 14 13 23-0014 AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0015 LF 4" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	9.18	2.88
33 14 13 23-0016 LF 6" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	14.03	3.48
33 14 13 23-0017 LF 8" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	19.90	3.92
33 14 13 23-0018 LF 10" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	27.06	4.36
33 14 13 23-0019 LF 12" AWWA C900, DR 14, PR 200 Polyvinyl Chloride (PVC) Pipe	35.68	4.88
33 14 13 23-0020 AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0021 LF 18" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	31.40	7.32
33 14 13 23-0022 LF 20" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	38.09	8.71
33 14 13 23-0023 LF 24" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	50.09	10.46
33 14 13 23-0024 LF 30" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	69.99	12.20
33 14 13 23-0025 LF 36" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	94.28	13.94
33 14 13 23-0026 LF 42" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	117.13	14.81
33 14 13 23-0027 LF 48" AWWA C905, DR 51, PR 80 Polyvinyl Chloride (PVC) Pipe	146.02	15.95
33 14 13 23-0028 AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0029 LF 14" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	23.20	5.49
33 14 13 23-0030 LF 16" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	28.51	6.10
33 14 13 23-0031 LF 18" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	35.17	7.32
33 14 13 23-0032 LF 20" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	42.99	8.71
33 14 13 23-0033 LF 24" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	57.65	10.46
33 14 13 23-0034 LF 30" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	80.84	12.20
33 14 13 23-0035 LF 36" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	108.79	13.94
33 14 13 23-0036 LF 42" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	141.27	14.81
33 14 13 23-0037 LF 48" AWWA C905, DR 41, PR 100 Polyvinyl Chloride (PVC) Pipe	177.35	15.95
33 14 13 23-0038 AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0039 LF 14" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	26.11	5.49
33 14 13 23-0040 LF 16" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	32.54	6.10
33 14 13 23-0041 LF 18" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	40.18	7.32
33 14 13 23-0042 LF 20" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	49.49	8.71
33 14 13 23-0043 LF 24" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	66.98	10.46
33 14 13 23-0044 LF 30" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	94.85	12.20
33 14 13 23-0045 LF 36" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	129.25	13.94
33 14 13 23-0046 LF 42" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	165.51	14.81
33 14 13 23-0047 LF 48" AWWA C905, DR 32.5, PR 125 Polyvinyl Chloride (PVC) Pipe	208.98	15.95
33 14 13 23-0048 AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0049 LF 14" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	31.07	5.49
33 14 13 23-0050 LF 16" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	38.44	6.10
33 14 13 23-0051 LF 18" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	47.77	7.32
33 14 13 23-0052 LF 20" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	58.66	8.71
33 14 13 23-0053 LF 24" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	80.20	10.46



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0054 LF 30" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	115.60	12.20
33 14 13 23-0055 LF 36" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	161.16	13.94
33 14 13 23-0056 LF 42" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	212.30	14.81
33 14 13 23-0057 LF 48" AWWA C905, DR 25, PR 165 Polyvinyl Chloride (PVC) Pipe	271.76	15.95
33 14 13 23-0058 AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0059 LF 14" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	34.80	5.49
33 14 13 23-0060 LF 16" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	43.29	6.10
33 14 13 23-0061 LF 18" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	53.89	7.32
33 14 13 23-0062 LF 20" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	66.29	8.71
33 14 13 23-0063 LF 24" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	91.17	10.46
33 14 13 23-0064 LF 30" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	132.47	12.20
33 14 13 23-0065 LF 36" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	185.81	13.94
33 14 13 23-0066 LF 42" AWWA C905, DR 21, PR 200 Polyvinyl Chloride (PVC) Pipe	246.09	14.81
33 14 13 23-0067 AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0068 LF 14" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	38.44	5.49
33 14 13 23-0069 LF 16" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	48.02	6.10
33 14 13 23-0070 LF 18" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	59.85	7.32
33 14 13 23-0071 LF 20" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	73.71	8.71
33 14 13 23-0072 LF 24" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	101.84	10.46
33 14 13 23-0073 LF 30" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	148.89	12.20
33 14 13 23-0074 LF 36" AWWA C905, DR 18, PR 235 Polyvinyl Chloride (PVC) Pipe	209.80	13.94
33 14 13 23-0075 AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)		
Note: Includes rubber gaskets.		
33 14 13 23-0076 90 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0077 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	142.05	11.26
For DR 25, Deduct	-7.17	
33 14 13 23-0078 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	286.24	12.67
For DR 25, Deduct	-15.65	
33 14 13 23-0079 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	427.79	14.07
For DR 25, Deduct	-23.98	
33 14 13 23-0080 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	654.46	22.75
For DR 25, Deduct	-36.54	
33 14 13 23-0081 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	740.12	37.92
For DR 25, Deduct	-39.86	
33 14 13 23-0082 EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,280.40	47.40
For DR 25, Deduct	-71.14	
33 14 13 23-0083 EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,528.16	56.87
For DR 25, Deduct	-84.86	
33 14 13 23-0084 EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,612.13	75.83
For DR 25, Deduct	-147.63	
33 14 13 23-0085 EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,216.30	94.79
For DR 25, Deduct	-181.60	
33 14 13 23-0086 EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	5,325.31	127.97
For DR 25, Deduct	-304.16	
33 14 13 23-0087 45 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0088 EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	126.43	11.26
For DR 25, Deduct	-6.24	
33 14 13 23-0089 EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	215.47	12.67
For DR 25, Deduct	-11.41	
33 14 13 23-0090 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	272.17	14.07
For DR 25, Deduct	-14.64	
33 14 13 23-0091 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	386.83	22.75
For DR 25, Deduct	-20.48	
33 14 13 23-0092 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	520.69	37.92
For DR 25, Deduct	-26.69	
33 14 13 23-0093 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	989.12	47.40
For DR 25, Deduct	-53.66	
33 14 13 23-0094 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,252.20	56.87
For DR 25, Deduct	-68.31	
33 14 13 23-0095 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,150.74	75.83
For DR 25, Deduct	-119.94	
33 14 13 23-0096 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,671.60	94.79
For DR 25, Deduct	-148.92	
33 14 13 23-0097 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,767.44	127.97
For DR 25, Deduct	-210.69	
33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0099 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	124.54	11.26
For DR 25, Deduct	-6.12	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0100 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	215.47	12.67
For DR 25, Deduct	-11.41	
33 14 13 23-0101 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	272.17	14.07
For DR 25, Deduct	-14.64	
33 14 13 23-0102 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	386.84	22.75
For DR 25, Deduct	-20.48	
33 14 13 23-0103 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	520.69	37.92
For DR 25, Deduct	-26.69	
33 14 13 23-0104 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	985.31	45.50
For DR 25, Deduct	-53.66	
33 14 13 23-0105 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,252.19	56.87
For DR 25, Deduct	-68.31	
33 14 13 23-0106 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,150.74	75.83
For DR 25, Deduct	-119.94	
33 14 13 23-0107 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,671.60	94.79
For DR 25, Deduct	-148.92	
33 14 13 23-0108 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,767.44	127.97
For DR 25, Deduct	-210.69	
33 14 13 23-0109 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0110 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	110.56	11.26
For DR 25, Deduct	-5.28	
33 14 13 23-0111 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	215.47	12.67
For DR 25, Deduct	-11.41	
33 14 13 23-0112 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	272.17	14.07
For DR 25, Deduct	-14.64	
33 14 13 23-0113 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	386.84	22.75
For DR 25, Deduct	-20.48	
33 14 13 23-0114 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	520.69	37.92
For DR 25, Deduct	-26.69	
33 14 13 23-0115 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	985.31	45.50
For DR 25, Deduct	-53.66	
33 14 13 23-0116 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,252.19	56.87
For DR 25, Deduct	-68.31	
33 14 13 23-0117 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,150.74	75.83
For DR 25, Deduct	-119.94	
33 14 13 23-0118 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,671.60	94.79
For DR 25, Deduct	-148.92	
33 14 13 23-0119 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,767.44	127.97
For DR 25, Deduct	-210.69	
33 14 13 23-0120 Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0121 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	168.50	12.67
For DR 25, Deduct	-8.59	
33 14 13 23-0122 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	320.85	14.07
For DR 25, Deduct	-17.56	
33 14 13 23-0123 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	446.08	15.95
For DR 25, Deduct	-24.85	
33 14 13 23-0124 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	918.57	28.44
For DR 25, Deduct	-51.70	
33 14 13 23-0125 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,131.55	56.87
For DR 25, Deduct	-61.07	
33 14 13 23-0126 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,028.79	71.09
For DR 25, Deduct	-113.20	
33 14 13 23-0127 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,511.59	85.31
For DR 25, Deduct	-140.46	
33 14 13 23-0128 EA 18" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,171.89	113.76
For DR 25, Deduct	-176.66	
33 14 13 23-0129 EA 20" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,811.66	142.19
For DR 25, Deduct	-211.64	
33 14 13 23-0130 EA 24" Tee, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,183.31	96.69
For DR 25, Deduct	-299.40	
33 14 13 23-0131 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0132 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	321.36	18.29
For DR 25, Deduct	-17.09	
33 14 13 23-0133 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	434.83	19.70
For DR 25, Deduct	-23.73	
33 14 13 23-0134 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	445.80	20.40
For DR 25, Deduct	-24.30	
33 14 13 23-0135 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,359.12	28.44
For DR 25, Deduct	-258.14	
33 14 13 23-0136 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	781.33	29.15
For DR 25, Deduct	-43.38	
33 14 13 23-0137 EA 10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	835.22	29.86
For DR 25, Deduct	-46.53	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0138	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	891.08	43.61
		For DR 25, Deduct	-48.23	
33 14 13 23-0139	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,020.19	44.31
		For DR 25, Deduct	-55.89	
33 14 13 23-0140	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,081.38	45.03
		For DR 25, Deduct	-59.48	
33 14 13 23-0141	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,103.35	49.29
		For DR 25, Deduct	-60.29	
33 14 13 23-0142	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,664.54	51.19
		For DR 25, Deduct	-93.73	
33 14 13 23-0143	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,730.86	51.90
		For DR 25, Deduct	-97.62	
33 14 13 23-0144	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,797.35	52.61
		For DR 25, Deduct	-101.53	
33 14 13 23-0145	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,870.58	56.87
		For DR 25, Deduct	-105.41	
33 14 13 23-0146	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,950.67	64.46
		For DR 25, Deduct	-109.31	
33 14 13 23-0147	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,076.68	62.57
		For DR 25, Deduct	-117.09	
33 14 13 23-0148	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,141.56	62.57
		For DR 25, Deduct	-120.99	
33 14 13 23-0149	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,207.88	63.27
		For DR 25, Deduct	-124.88	
33 14 13 23-0150	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,274.21	63.99
		For DR 25, Deduct	-128.77	
33 14 13 23-0151	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,362.79	75.83
		For DR 25, Deduct	-132.67	
33 14 13 23-0152	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,435.27	79.62
		For DR 25, Deduct	-136.56	
33 14 13 23-0153	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,568.41	81.52
		For DR 25, Deduct	-144.32	
33 14 13 23-0154	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,635.19	82.23
		For DR 25, Deduct	-148.24	
33 14 13 23-0155	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,701.51	82.95
		For DR 25, Deduct	-152.14	
33 14 13 23-0156	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,774.93	87.20
		For DR 25, Deduct	-156.03	
33 14 13 23-0157	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,854.97	94.79
		For DR 25, Deduct	-159.92	
33 14 13 23-0158	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,927.01	98.58
		For DR 25, Deduct	-163.79	
33 14 13 23-0159	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,018.96	104.27
		For DR 25, Deduct	-168.63	
33 14 13 23-0160	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,256.17	100.48
		For DR 25, Deduct	-183.31	
33 14 13 23-0161	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,368.40	101.19
		For DR 25, Deduct	-189.96	
33 14 13 23-0162	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,412.79	101.90
		For DR 25, Deduct	-192.54	
33 14 13 23-0163	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,464.33	106.16
		For DR 25, Deduct	-195.12	
33 14 13 23-0164	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,522.48	113.76
		For DR 25, Deduct	-197.70	
33 14 13 23-0165	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,599.73	117.55
		For DR 25, Deduct	-201.88	
33 14 13 23-0166	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,680.80	123.23
		For DR 25, Deduct	-206.06	
33 14 13 23-0167	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,746.23	132.71
		For DR 25, Deduct	-208.85	
33 14 13 23-0168	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,841.07	133.66
		For DR 25, Deduct	-214.43	
33 14 13 23-0169	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,888.99	134.36
		For DR 25, Deduct	-217.22	
33 14 13 23-0170	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,936.88	135.08
		For DR 25, Deduct	-220.00	
33 14 13 23-0171	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,134.45	139.34
		For DR 25, Deduct	-231.35	
33 14 13 23-0172	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,338.63	146.92
		For DR 25, Deduct	-242.69	
33 14 13 23-0173	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,535.24	150.72
		For DR 25, Deduct	-254.03	
33 14 13 23-0174	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,735.64	156.41
		For DR 25, Deduct	-265.37	
33 14 13 23-0175	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,943.63	165.89
		For DR 25, Deduct	-276.71	
33 14 13 23-0176	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	5,151.62	175.36
		For DR 25, Deduct	-288.05	
33 14 13 23-0177		Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0178	EA	4" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	235.93	22.51
		For DR 25, Deduct	-11.45	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0179 EA 6" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	417.03	25.33
For DR 25, Deduct	-21.98	
33 14 13 23-0180 EA 8" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	574.28	28.14
For DR 25, Deduct	-31.08	
33 14 13 23-0181 EA 10" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,167.67	45.50
For DR 25, Deduct	-64.60	
33 14 13 23-0182 EA 12" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,386.28	56.87
For DR 25, Deduct	-76.35	
33 14 13 23-0183 EA 14" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,510.07	75.83
For DR 25, Deduct	-141.50	
33 14 13 23-0184 EA 16" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,115.27	94.79
For DR 25, Deduct	-175.55	
33 14 13 23-0185 EA 18" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,984.37	151.67
For DR 25, Deduct	-220.86	
33 14 13 23-0186 EA 20" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,788.35	189.59
For DR 25, Deduct	-264.55	
33 14 13 23-0187 EA 24" Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	6,748.90	255.94
For DR 25, Deduct	-374.22	
33 14 13 23-0188 Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0189 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	404.10	23.92
For DR 25, Deduct	-21.38	
33 14 13 23-0190 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	545.55	25.33
For DR 25, Deduct	-29.69	
33 14 13 23-0191 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	559.83	26.73
For DR 25, Deduct	-30.38	
33 14 13 23-0192 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	837.87	34.12
For DR 25, Deduct	-46.18	
33 14 13 23-0193 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	974.99	35.55
For DR 25, Deduct	-54.23	
33 14 13 23-0194 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,070.09	36.97
For DR 25, Deduct	-59.77	
33 14 13 23-0195 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,103.76	49.29
For DR 25, Deduct	-60.31	
33 14 13 23-0196 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,265.83	50.71
For DR 25, Deduct	-69.86	
33 14 13 23-0197 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,343.39	52.14
For DR 25, Deduct	-74.35	
33 14 13 23-0198 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	1,377.20	60.66
For DR 25, Deduct	-75.35	
33 14 13 23-0199 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,066.46	56.87
For DR 25, Deduct	-117.16	
33 14 13 23-0200 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,150.17	58.30
For DR 25, Deduct	-122.01	
33 14 13 23-0201 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,234.80	59.72
For DR 25, Deduct	-126.92	
33 14 13 23-0202 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,333.29	68.25
For DR 25, Deduct	-131.81	
33 14 13 23-0203 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,444.44	83.41
For DR 25, Deduct	-136.66	
33 14 13 23-0204 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,575.55	68.25
For DR 25, Deduct	-146.34	
33 14 13 23-0205 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,660.36	69.67
For DR 25, Deduct	-151.26	
33 14 13 23-0206 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,744.29	71.09
For DR 25, Deduct	-156.13	
33 14 13 23-0207 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,842.71	79.62
For DR 25, Deduct	-161.01	
33 14 13 23-0208 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	2,896.09	94.79
For DR 25, Deduct	-162.39	
33 14 13 23-0209 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,050.02	102.37
For DR 25, Deduct	-170.72	
33 14 13 23-0210 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,181.53	87.20
For DR 25, Deduct	-180.43	
33 14 13 23-0211 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,266.15	88.63
For DR 25, Deduct	-185.33	
33 14 13 23-0212 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,350.19	90.05
For DR 25, Deduct	-190.21	
33 14 13 23-0213 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,447.40	98.58
For DR 25, Deduct	-195.01	
33 14 13 23-0214 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,559.51	113.76
For DR 25, Deduct	-199.92	
33 14 13 23-0215 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,655.50	121.34
For DR 25, Deduct	-204.77	
33 14 13 23-0216 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	3,778.83	132.71
For DR 25, Deduct	-210.80	
33 14 13 23-0217 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,031.73	106.16
For DR 25, Deduct	-229.16	
33 14 13 23-0218 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,172.86	107.59
For DR 25, Deduct	-237.46	
33 14 13 23-0219 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC)	4,229.80	109.01
For DR 25, Deduct	-240.71	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0220	EA	20" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,300.39	117.55
		For DR 25, Deduct	-243.92	
33 14 13 23-0221	EA	20" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,384.26	132.71
		For DR 25, Deduct	-247.13	
33 14 13 23-0222	EA	20" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,485.91	140.30
		For DR 25, Deduct	-252.32	
33 14 13 23-0223	EA	20" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,596.89	151.67
		For DR 25, Deduct	-257.61	
33 14 13 23-0224	EA	20" x 18" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,692.74	170.63
		For DR 25, Deduct	-261.09	
33 14 13 23-0225	EA	24" x 4" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,720.09	139.34
		For DR 25, Deduct	-266.48	
33 14 13 23-0226	EA	24" x 6" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,807.13	140.76
		For DR 25, Deduct	-271.54	
33 14 13 23-0227	EA	24" x 8" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	4,868.31	142.19
		For DR 25, Deduct	-275.04	
33 14 13 23-0228	EA	24" x 10" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,121.39	150.72
		For DR 25, Deduct	-289.20	
33 14 13 23-0229	EA	24" x 12" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,387.81	165.89
		For DR 25, Deduct	-303.36	
33 14 13 23-0230	EA	24" x 14" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,639.03	173.47
		For DR 25, Deduct	-317.53	
33 14 13 23-0231	EA	24" x 16" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	5,898.84	184.85
		For DR 25, Deduct	-331.75	
33 14 13 23-0232	EA	24" x 18" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,172.29	203.81
		For DR 25, Deduct	-345.88	
33 14 13 23-0233	EA	24" x 20" Reducing Cross, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	6,446.77	222.76
		For DR 25, Deduct	-360.07	
33 14 13 23-0234 Couplings, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0079)				
33 14 13 23-0235	EA	4" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	86.88	11.26
		For DR 25, Deduct	-3.86	
33 14 13 23-0236	EA	6" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	158.20	12.67
		For DR 25, Deduct	-7.97	
33 14 13 23-0237	EA	8" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	189.90	14.07
		For DR 25, Deduct	-9.71	
33 14 13 23-0238	EA	10" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	271.77	22.75
		For DR 25, Deduct	-13.58	
33 14 13 23-0239	EA	12" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	428.66	28.44
		For DR 25, Deduct	-22.31	
33 14 13 23-0240	EA	14" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	738.32	37.92
		For DR 25, Deduct	-39.75	
33 14 13 23-0241	EA	16" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	875.79	47.40
		For DR 25, Deduct	-46.86	
33 14 13 23-0242	EA	18" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,078.94	75.83
		For DR 25, Deduct	-115.64	
33 14 13 23-0243	EA	20" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,335.23	94.79
		For DR 25, Deduct	-128.74	
33 14 13 23-0244	EA	24" Coupling, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,285.47	127.97
		For DR 25, Deduct	-181.77	
33 14 13 23-0245 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0246	EA	4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	106.49	11.26
		For DR 25, Deduct	-5.04	
33 14 13 23-0247	EA	6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	143.49	12.67
		For DR 25, Deduct	-7.09	
33 14 13 23-0248	EA	8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	206.65	14.07
		For DR 25, Deduct	-10.71	
33 14 13 23-0249	EA	10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	284.83	22.75
		For DR 25, Deduct	-14.36	
33 14 13 23-0250	EA	12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	457.13	37.92
		For DR 25, Deduct	-22.88	
33 14 13 23-0251	EA	14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,187.46	45.50
		For DR 25, Deduct	-65.79	
33 14 13 23-0252	EA	16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,605.21	56.87
		For DR 25, Deduct	-89.49	
33 14 13 23-0253	EA	18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	1,980.54	75.83
		For DR 25, Deduct	-109.73	
33 14 13 23-0254	EA	20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	2,368.18	94.79
		For DR 25, Deduct	-130.72	
33 14 13 23-0255	EA	24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PR 150 Polyvinyl Chloride (PVC).....	3,216.72	127.97
		For DR 25, Deduct	-177.65	
33 14 13 23-0256 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)				
33 14 13 23-0257 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0256)				
33 14 13 23-0258	LF	3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.03	0.75
		For >1,000, Deduct	-0.10	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.02	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0259 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.22	0.81
For >1,000, Deduct	-0.11	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.03	
33 14 13 23-0260 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.51	0.88
For >1,000, Deduct	-0.13	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
33 14 13 23-0261 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.85	0.98
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0262 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.50	1.09
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.12	
33 14 13 23-0263 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	4.33	1.24
For >1,000, Deduct	-0.22	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.19	
33 14 13 23-0264 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	5.07	1.36
For >1,000, Deduct	-0.25	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.25	
33 14 13 23-0265 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	6.94	1.67
For >1,000, Deduct	-0.35	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.42	
33 14 13 23-0266 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	11.33	2.12
For >1,000, Deduct	-0.57	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.90	
33 14 13 23-0267 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	17.80	3.03
For >1,000, Deduct	-0.89	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.53	
33 14 13 23-0268 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	26.03	4.06
For >1,000, Deduct	-1.30	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.38	
33 14 13 23-0269 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	36.04	5.46
For >1,000, Deduct	-1.80	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.36	
33 14 13 23-0270 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0271 EA 3/4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	22.68	9.01
33 14 13 23-0272 EA 1" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	28.58	11.26
33 14 13 23-0273 EA 1-1/4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	35.86	14.07
33 14 13 23-0274 EA 1-1/2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	47.77	15.57
33 14 13 23-0275 EA 2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	52.27	17.45
33 14 13 23-0276 EA 2-1/2" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	60.99	19.80
33 14 13 23-0277 EA 3" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	67.13	21.72
33 14 13 23-0278 EA 4" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	89.52	26.68
33 14 13 23-0279 EA 6" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	124.10	33.88
33 14 13 23-0280 EA 8" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	189.83	44.49
33 14 13 23-0281 EA 10" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	238.56	59.52
33 14 13 23-0282 EA 12" 90 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	316.86	80.11
33 14 13 23-0283 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0284 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	22.91	9.01
33 14 13 23-0285 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	28.75	11.26
33 14 13 23-0286 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	35.96	14.07
33 14 13 23-0287 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	44.69	15.57
33 14 13 23-0288 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	52.56	17.45
33 14 13 23-0289 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	62.16	19.80
33 14 13 23-0290 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	66.64	21.72
33 14 13 23-0291 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	88.46	26.68
33 14 13 23-0292 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	121.96	33.88
33 14 13 23-0293 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	185.74	44.49
33 14 13 23-0294 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	221.63	59.52
33 14 13 23-0295 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	293.43	80.11
33 14 13 23-0296 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0297 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	34.01	13.50
33 14 13 23-0298 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	42.82	16.98
33 14 13 23-0299 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	53.58	21.20
33 14 13 23-0300 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	67.86	23.45
33 14 13 23-0301 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	76.65	26.08
33 14 13 23-0302 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	88.48	29.73
33 14 13 23-0303 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	102.00	32.50
33 14 13 23-0304 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	131.14	40.05
33 14 13 23-0305 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	200.96	50.91
33 14 13 23-0306 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	291.05	66.72
33 14 13 23-0307 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	368.73	97.35
33 14 13 23-0308 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	471.44	131.01
33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0310 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	15.16	6.00



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		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0311 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	20.42	8.07
33 14 13 23-0312 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	27.06	10.60
33 14 13 23-0313 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	34.42	11.73
33 14 13 23-0314 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	38.11	13.04
33 14 13 23-0315 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	43.36	14.82
33 14 13 23-0316 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	48.42	16.25
33 14 13 23-0317 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	64.03	19.99
33 14 13 23-0318 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	88.16	25.46
33 14 13 23-0319 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	139.36	33.36
33 14 13 23-0320 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	177.72	48.72
33 14 13 23-0321 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	230.36	65.50
33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0322)		
33 14 13 23-0324 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.15	0.75
For >1,000, Deduct	-0.11	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.04	
33 14 13 23-0325 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.44	0.81
For >1,000, Deduct	-0.12	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0326 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.06	0.98
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.09	
33 14 13 23-0327 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.58	1.09
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0328 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.46	1.24
For >1,000, Deduct	-0.22	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.21	
33 14 13 23-0329 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.15	1.36
For >1,000, Deduct	-0.26	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.27	
33 14 13 23-0330 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.72	1.67
For >1,000, Deduct	-0.34	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.38	
33 14 13 23-0331 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	9.75	2.12
For >1,000, Deduct	-0.49	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.67	
33 14 13 23-0332 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0333 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	22.76	9.01
33 14 13 23-0334 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	28.63	11.26
33 14 13 23-0335 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	39.71	15.57
33 14 13 23-0336 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	44.61	17.45
33 14 13 23-0337 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	52.38	19.80
33 14 13 23-0338 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	57.71	21.72
33 14 13 23-0339 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	73.76	26.68
33 14 13 23-0340 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	107.22	33.88
33 14 13 23-0341 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0342 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	22.74	9.01
33 14 13 23-0343 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	28.61	11.26
33 14 13 23-0344 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	39.71	15.57
33 14 13 23-0345 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	44.53	17.45
33 14 13 23-0346 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	52.16	19.80
33 14 13 23-0347 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	57.46	21.72
33 14 13 23-0348 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	73.24	26.68
33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	105.56	33.88
33 14 13 23-0350 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	34.10	13.50
33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	42.89	16.98
33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	59.45	23.45
33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	66.62	26.08
33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	78.71	29.73
33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	87.62	32.50
33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	108.52	40.05
33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	162.43	50.91
33 14 13 23-0359 Couplings, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	15.20	6.00
33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	20.46	8.07
33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	29.67	11.73
33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	33.30	13.04
33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	38.58	14.82
33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	42.89	16.25

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0366	EA	4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	53.00	19.99
33 14 13 23-0367	EA	6" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	73.83	25.46
33 14 13 23-0368		Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0369	EA	3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	45.54	18.01
33 14 13 23-0370	EA	1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	57.12	22.60
33 14 13 23-0371	EA	1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	79.26	31.24
33 14 13 23-0372	EA	2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	88.82	34.80
33 14 13 23-0373	EA	2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	104.91	39.58
33 14 13 23-0374	EA	3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	116.78	43.36
33 14 13 23-0375	EA	4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	144.65	53.34
33 14 13 23-0376	EA	6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	216.37	67.86
33 14 13 23-0377		Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0378		Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0377)		
33 14 13 23-0379	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	2.57	0.81
		For >1,000, Deduct	-0.13	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.08	
33 14 13 23-0380	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.32	0.98
		For >1,000, Deduct	-0.17	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0381	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.02	1.09
		For >1,000, Deduct	-0.20	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.20	
33 14 13 23-0382	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	5.02	1.24
		For >1,000, Deduct	-0.25	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.29	
33 14 13 23-0383	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	5.95	1.36
		For >1,000, Deduct	-0.30	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.39	
33 14 13 23-0384	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	7.94	1.67
		For >1,000, Deduct	-0.40	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.57	
33 14 13 23-0385	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	12.47	2.12
		For >1,000, Deduct	-0.62	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.08	
33 14 13 23-0386		90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0387	EA	1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	29.30	11.26
33 14 13 23-0388	EA	1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	39.71	15.57
33 14 13 23-0389	EA	2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	45.29	17.45
33 14 13 23-0390	EA	2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	53.82	19.80
33 14 13 23-0391	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	59.05	21.72
33 14 13 23-0392	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	74.08	26.68
33 14 13 23-0393	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	105.70	33.88
33 14 13 23-0394		45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0395	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	32.07	11.26
33 14 13 23-0396	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	42.37	15.57
33 14 13 23-0397	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	47.85	17.45
33 14 13 23-0398	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	58.63	19.80
33 14 13 23-0399	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	65.31	21.72
33 14 13 23-0400	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	86.67	26.68
33 14 13 23-0401	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	104.86	33.88
33 14 13 23-0402		Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0403	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	44.31	16.98
33 14 13 23-0404	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	63.76	23.45
33 14 13 23-0405	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	71.75	26.08
33 14 13 23-0406	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	81.42	29.73
33 14 13 23-0407	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	90.21	32.50
33 14 13 23-0408	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	110.39	40.05
33 14 13 23-0409	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	162.36	50.91
33 14 13 23-0410		Couplings, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0411	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	21.47	8.07
33 14 13 23-0412	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	31.41	11.73
33 14 13 23-0413	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	34.94	13.04
33 14 13 23-0414	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	42.79	14.82
33 14 13 23-0415	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	47.12	16.25
33 14 13 23-0416	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	58.15	19.99
33 14 13 23-0417	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	81.02	25.46



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		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0418		Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0419	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross	59.00	22.60
33 14 13 23-0420	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	84.97	31.24
33 14 13 23-0421	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross	95.63	34.80
33 14 13 23-0422	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	108.52	39.58
33 14 13 23-0423	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross	120.23	43.36
33 14 13 23-0424	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross	147.14	53.34
33 14 13 23-0425	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross	216.28	67.86
33 14 13 23-0426		AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)		
		Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
33 14 13 23-0427		High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)		
33 14 13 23-0428	LF	3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	5.43	2.26
		For DR 19 (89 PSI), Add	0.08	
		For DR 17 (100 PSI), Add	0.19	
		For DR 15.5 (110 PSI), Add	0.28	
		For DR 13.5 (128 PSI), Add	0.44	
		For DR 11 (160 PSI), Add	0.70	
33 14 13 23-0429	LF	4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	7.82	2.88
		For DR 26 (65 PSI), Deduct	-0.38	
		For DR 19 (89 PSI), Add	0.19	
		For DR 17 (100 PSI), Add	0.46	
		For DR 15.5 (110 PSI), Add	0.67	
		For DR 13.5 (128 PSI), Add	1.05	
		For DR 11 (160 PSI), Add	1.69	
33 14 13 23-0430	LF	6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	11.45	3.48
		For DR 26 (65 PSI), Deduct	-0.82	
		For DR 19 (89 PSI), Add	0.40	
		For DR 17 (100 PSI), Add	1.00	
		For DR 15.5 (110 PSI), Add	1.46	
		For DR 13.5 (128 PSI), Add	2.28	
		For DR 11 (160 PSI), Add	3.66	
33 14 13 23-0431	LF	8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	15.44	3.92
		For DR 26 (65 PSI), Deduct	-1.39	
		For DR 19 (89 PSI), Add	0.68	
		For DR 17 (100 PSI), Add	1.69	
		For DR 15.5 (110 PSI), Add	2.47	
		For DR 13.5 (128 PSI), Add	3.86	
		For DR 11 (160 PSI), Add	6.21	
33 14 13 23-0432	LF	10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	20.53	4.36
		For DR 26 (65 PSI), Deduct	-2.17	
		For DR 19 (89 PSI), Add	1.06	
		For DR 17 (100 PSI), Add	2.63	
		For DR 15.5 (110 PSI), Add	3.85	
		For DR 13.5 (128 PSI), Add	6.00	
		For DR 11 (160 PSI), Add	9.66	
33 14 13 23-0433	LF	12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	26.71	48.80
		For DR 26 (65 PSI), Deduct	-3.12	
		For DR 19 (89 PSI), Add	1.53	
		For DR 17 (100 PSI), Add	3.79	
		For DR 15.5 (110 PSI), Add	5.54	
		For DR 13.5 (128 PSI), Add	8.65	
		For DR 11 (160 PSI), Add	13.93	
33 14 13 23-0434	LF	14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	30.92	5.49
		For DR 26 (65 PSI), Deduct	-3.67	
		For DR 19 (89 PSI), Add	1.80	
		For DR 17 (100 PSI), Add	4.45	
		For DR 15.5 (110 PSI), Add	6.52	
		For DR 13.5 (128 PSI), Add	10.17	
		For DR 11 (160 PSI), Add	16.37	
33 14 13 23-0435	LF	16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	38.37	6.10
		For DR 26 (65 PSI), Deduct	-4.80	
		For DR 19 (89 PSI), Add	2.36	
		For DR 17 (100 PSI), Add	5.81	
		For DR 15.5 (110 PSI), Add	8.52	
		For DR 13.5 (128 PSI), Add	13.29	
		For DR 11 (160 PSI), Add	21.39	
33 14 13 23-0436	LF	18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	47.75	7.32
		For DR 26 (65 PSI), Deduct	-6.06	
		For DR 19 (89 PSI), Add	2.98	
		For DR 17 (100 PSI), Add	7.35	
		For DR 15.5 (110 PSI), Add	10.76	
		For DR 13.5 (128 PSI), Add	16.80	
		For DR 11 (160 PSI), Add	27.03	
33 14 13 23-0437	LF	20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	45.07	8.71
		For DR 26 (65 PSI), Deduct	-5.07	
		For DR 19 (89 PSI), Add	2.49	
		For DR 17 (100 PSI), Add	6.14	
		For DR 15.5 (110 PSI), Add	8.99	
		For DR 13.5 (128 PSI), Add	14.04	
		For DR 11 (160 PSI), Add	22.60	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0438	LF	24"	DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	79.75	10.46
			For DR 26 (65 PSI), Deduct	-10.79	
			For DR 19 (89 PSI), Add	5.30	
			For DR 17 (100 PSI), Add	13.07	
			For DR 15.5 (110 PSI), Add	19.15	
			For DR 13.5 (128 PSI), Add	29.88	
			For DR 11 (160 PSI), Add	48.10	
33 14 13 23-0439			90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping ^{(33 14}		
			^{13 23-0426)}		
33 14 13 23-0440	EA	3"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	59.53	14.07
			For DR 26 (65 PSI), Deduct	-3.17	
			For DR 19 (89 PSI), Add	1.56	
			For DR 17 (100 PSI), Add	3.85	
			For DR 15.5 (110 PSI), Add	5.63	
			For DR 13.5 (128 PSI), Add	8.79	
			For DR 11 (160 PSI), Add	14.15	
33 14 13 23-0441	EA	4"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	67.52	15.65
			For DR 26 (65 PSI), Deduct	-3.78	
			For DR 19 (89 PSI), Add	1.86	
			For DR 17 (100 PSI), Add	4.58	
			For DR 15.5 (110 PSI), Add	6.71	
			For DR 13.5 (128 PSI), Add	10.47	
			For DR 11 (160 PSI), Add	16.86	
33 14 13 23-0442	EA	6"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	108.43	17.87
			For DR 26 (65 PSI), Deduct	-10.06	
			For DR 19 (89 PSI), Add	4.94	
			For DR 17 (100 PSI), Add	12.19	
			For DR 15.5 (110 PSI), Add	17.85	
			For DR 13.5 (128 PSI), Add	27.86	
			For DR 11 (160 PSI), Add	44.85	
33 14 13 23-0443	EA	8"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	177.24	20.87
			For DR 26 (65 PSI), Deduct	-21.02	
			For DR 19 (89 PSI), Add	10.32	
			For DR 17 (100 PSI), Add	25.48	
			For DR 15.5 (110 PSI), Add	37.32	
			For DR 13.5 (128 PSI), Add	58.25	
			For DR 11 (160 PSI), Add	93.75	
33 14 13 23-0444	EA	10"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	274.80	27.86
			For DR 26 (65 PSI), Deduct	-35.08	
			For DR 19 (89 PSI), Add	17.23	
			For DR 17 (100 PSI), Add	42.53	
			For DR 15.5 (110 PSI), Add	62.28	
			For DR 13.5 (128 PSI), Add	97.21	
			For DR 11 (160 PSI), Add	156.47	
33 14 13 23-0445	EA	12"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	405.32	41.69
			For DR 26 (65 PSI), Deduct	-51.38	
			For DR 19 (89 PSI), Add	25.23	
			For DR 17 (100 PSI), Add	62.28	
			For DR 15.5 (110 PSI), Add	91.20	
			For DR 13.5 (128 PSI), Add	142.35	
			For DR 11 (160 PSI), Add	229.13	
33 14 13 23-0446	EA	14"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	500.97	55.65
			For DR 26 (65 PSI), Deduct	-61.24	
			For DR 19 (89 PSI), Add	30.07	
			For DR 17 (100 PSI), Add	74.24	
			For DR 15.5 (110 PSI), Add	108.72	
			For DR 13.5 (128 PSI), Add	169.70	
			For DR 11 (160 PSI), Add	273.14	
33 14 13 23-0447	EA	16"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	650.20	83.40
			For DR 26 (65 PSI), Deduct	-73.34	
			For DR 19 (89 PSI), Add	36.01	
			For DR 17 (100 PSI), Add	88.91	
			For DR 15.5 (110 PSI), Add	130.20	
			For DR 13.5 (128 PSI), Add	203.22	
			For DR 11 (160 PSI), Add	327.10	
33 14 13 23-0448	EA	18"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	825.94	93.81
			For DR 26 (65 PSI), Deduct	-99.81	
			For DR 19 (89 PSI), Add	49.01	
			For DR 17 (100 PSI), Add	120.99	
			For DR 15.5 (110 PSI), Add	177.18	
			For DR 13.5 (128 PSI), Add	276.55	
			For DR 11 (160 PSI), Add	445.13	
33 14 13 23-0449	EA	20"	90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,141.50	106.47
			For DR 26 (65 PSI), Deduct	-150.09	
			For DR 19 (89 PSI), Add	73.69	
			For DR 17 (100 PSI), Add	181.94	
			For DR 15.5 (110 PSI), Add	266.44	
			For DR 13.5 (128 PSI), Add	415.87	
			For DR 11 (160 PSI), Add	669.38	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0450	EA		24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,468.36	125.14
			For DR 26 (65 PSI), Deduct	-200.37	
			For DR 19 (89 PSI), Add	98.38	
			For DR 17 (100 PSI), Add	242.89	
			For DR 15.5 (110 PSI), Add	355.70	
			For DR 13.5 (128 PSI), Add	555.20	
			For DR 11 (160 PSI), Add	893.63	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)					
33 14 13 23-0452	EA		3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	66.73	14.73
			For DR 26 (65 PSI), Deduct	-4.15	
			For DR 19 (89 PSI), Add	2.04	
			For DR 17 (100 PSI), Add	5.03	
			For DR 15.5 (110 PSI), Add	7.37	
			For DR 13.5 (128 PSI), Add	11.50	
			For DR 11 (160 PSI), Add	18.51	
33 14 13 23-0453	EA		4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	76.66	16.68
			For DR 26 (65 PSI), Deduct	-4.88	
			For DR 19 (89 PSI), Add	2.40	
			For DR 17 (100 PSI), Add	5.92	
			For DR 15.5 (110 PSI), Add	8.67	
			For DR 13.5 (128 PSI), Add	13.54	
			For DR 11 (160 PSI), Add	21.79	
33 14 13 23-0454	EA		6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	127.36	19.25
			For DR 26 (65 PSI), Deduct	-12.77	
			For DR 19 (89 PSI), Add	6.27	
			For DR 17 (100 PSI), Add	15.48	
			For DR 15.5 (110 PSI), Add	22.67	
			For DR 13.5 (128 PSI), Add	35.38	
			For DR 11 (160 PSI), Add	56.95	
33 14 13 23-0455	EA		8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	244.92	22.75
			For DR 26 (65 PSI), Deduct	-32.39	
			For DR 19 (89 PSI), Add	15.90	
			For DR 17 (100 PSI), Add	39.27	
			For DR 15.5 (110 PSI), Add	57.50	
			For DR 13.5 (128 PSI), Add	89.76	
			For DR 11 (160 PSI), Add	144.47	
33 14 13 23-0456	EA		10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	332.90	33.39
			For DR 26 (65 PSI), Deduct	-42.68	
			For DR 19 (89 PSI), Add	20.95	
			For DR 17 (100 PSI), Add	51.73	
			For DR 15.5 (110 PSI), Add	75.76	
			For DR 13.5 (128 PSI), Add	118.25	
			For DR 11 (160 PSI), Add	190.33	
33 14 13 23-0457	EA		12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	468.02	50.10
			For DR 26 (65 PSI), Deduct	-58.27	
			For DR 19 (89 PSI), Add	28.61	
			For DR 17 (100 PSI), Add	70.64	
			For DR 15.5 (110 PSI), Add	103.44	
			For DR 13.5 (128 PSI), Add	161.46	
			For DR 11 (160 PSI), Add	259.88	
33 14 13 23-0458	EA		14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	561.62	62.57
			For DR 26 (65 PSI), Deduct	-68.55	
			For DR 19 (89 PSI), Add	33.66	
			For DR 17 (100 PSI), Add	83.10	
			For DR 15.5 (110 PSI), Add	121.70	
			For DR 13.5 (128 PSI), Add	189.95	
			For DR 11 (160 PSI), Add	305.75	
33 14 13 23-0459	EA		16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	725.67	93.81
			For DR 26 (65 PSI), Deduct	-81.41	
			For DR 19 (89 PSI), Add	39.97	
			For DR 17 (100 PSI), Add	98.68	
			For DR 15.5 (110 PSI), Add	144.52	
			For DR 13.5 (128 PSI), Add	225.57	
			For DR 11 (160 PSI), Add	363.07	
33 14 13 23-0460	EA		18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	944.90	109.28
			For DR 26 (65 PSI), Deduct	-113.11	
			For DR 19 (89 PSI), Add	55.54	
			For DR 17 (100 PSI), Add	137.12	
			For DR 15.5 (110 PSI), Add	200.80	
			For DR 13.5 (128 PSI), Add	313.43	
			For DR 11 (160 PSI), Add	504.48	
33 14 13 23-0461	EA		20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,342.95	129.08
			For DR 26 (65 PSI), Deduct	-174.38	
			For DR 19 (89 PSI), Add	85.62	
			For DR 17 (100 PSI), Add	211.39	
			For DR 15.5 (110 PSI), Add	309.57	
			For DR 13.5 (128 PSI), Add	483.20	
			For DR 11 (160 PSI), Add	777.74	
33 14 13 23-0462	EA		24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,754.66	156.47
			For DR 26 (65 PSI), Deduct	-235.65	
			For DR 19 (89 PSI), Add	115.71	
			For DR 17 (100 PSI), Add	285.66	
			For DR 15.5 (110 PSI), Add	418.34	
			For DR 13.5 (128 PSI), Add	652.97	
			For DR 11 (160 PSI), Add	1,050.99	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004	LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	48.71	23.58
	For >1,000, Deduct	-2.44	
33 14 13 36-0005	LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	52.85	23.58
	For >1,000, Deduct	-2.64	
33 14 13 36-0006	LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	55.23	25.73
	For >1,000, Deduct	-2.76	
33 14 13 36-0007	LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	60.46	25.73
	For >1,000, Deduct	-3.02	
33 14 13 36-0008	LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	61.96	26.95
	For >1,000, Deduct	-3.10	
33 14 13 36-0009	LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	66.02	26.95
	For >1,000, Deduct	-3.30	
33 14 13 36-0010	LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	92.07	29.78
	For >1,000, Deduct	-4.60	
33 14 13 36-0011	LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	74.98	29.78
	For >1,000, Deduct	-3.75	
33 14 13 36-0012	LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	75.92	31.44
	For >1,000, Deduct	-3.80	
33 14 13 36-0013	LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	78.43	31.44
	For >1,000, Deduct	-3.92	
33 14 13 36-0014	LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	89.88	35.37
	For >1,000, Deduct	-4.49	
33 14 13 36-0015	LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	94.00	35.37
	For >1,000, Deduct	-4.70	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0017	LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	79.25	46.12
	For >1,000, Deduct	-3.96	
33 14 13 36-0018	LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	91.03	50.73
	For >1,000, Deduct	-4.55	
33 14 13 36-0019	LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	98.85	53.04
	For >1,000, Deduct	-4.94	
33 14 13 36-0020	LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	111.38	59.95
	For >1,000, Deduct	-5.57	
33 14 13 36-0021	LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	114.17	59.95
	For >1,000, Deduct	-5.71	
33 14 13 36-0022	LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	116.75	59.95
	For >1,000, Deduct	-5.84	
33 14 13 36-0023	LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	119.72	59.95
	For >1,000, Deduct	-5.99	
33 14 13 36-0024	LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	137.98	69.19
	For >1,000, Deduct	-6.90	
33 14 13 36-0025	LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	147.18	69.19
	For >1,000, Deduct	-7.36	
33 14 13 36-0026	LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	169.76	69.19
	For >1,000, Deduct	-8.49	
33 14 13 36-0027	LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	167.24	80.71
	For >1,000, Deduct	-8.36	
33 14 13 36-0028	LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	171.00	80.71
	For >1,000, Deduct	-8.55	
33 14 13 36-0029	LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	206.49	80.71
	For >1,000, Deduct	-10.32	
33 14 13 36-0030	LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	186.75	80.71
	For >1,000, Deduct	-9.34	
33 14 13 36-0031	LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	220.76	96.86
	For >1,000, Deduct	-11.04	
33 14 13 36-0032	LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	248.29	96.86
	For >1,000, Deduct	-12.41	
33 14 13 36-0033	LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	241.41	96.86
	For >1,000, Deduct	-12.07	
33 14 13 36-0034	LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	336.87	108.38
	For >1,000, Deduct	-16.84	
33 14 13 36-0035	LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	238.71	108.38
	For >1,000, Deduct	-11.94	
33 14 13 36-0036	LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	384.42	122.21
	For >1,000, Deduct	-19.22	
33 14 13 36-0037	LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	412.06	138.36
	For >1,000, Deduct	-20.60	
33 14 13 36-0038	LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	264.34	122.21
	For >1,000, Deduct	-13.22	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	443.42	138.36
For >1,000, Deduct	-22.17	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	501.26	161.42
For >1,000, Deduct	-25.06	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	389.77	161.42
For >1,000, Deduct	-19.49	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	489.23	131.26
For >1,000, Deduct	-24.46	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	741.01	131.26
For >1,000, Deduct	-37.05	
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)		
33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....	109.66	26.67
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....	163.51	51.28
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....	217.62	67.69
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....	346.09	102.56
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....	452.15	129.23
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....	574.52	134.79
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....	681.24	168.94
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....	733.59	168.94
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....	774.88	193.20
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....	849.48	206.68
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....	926.63	233.64
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,172.46	247.12
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,407.97	269.58
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,652.23	303.28
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....	1,908.48	341.48
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,219.98	393.14
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,461.09	449.30
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....	2,829.97	561.63
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,258.95	682.94
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....	3,883.95	808.75
33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)		
33 14 13 39-0001 Type K Copper Water Distribution Piping (33 14 13 39)		
See CSI section 23 05 23 00-0001 for gate valve at tap.		
33 14 13 39-0002 LF 1/2" Type K Copper Water Distribution Pipe.....	5.95	1.85
33 14 13 39-0003 LF 3/4" Type K Copper Water Distribution Pipe.....	7.58	2.08
33 14 13 39-0004 LF 1" Type K Copper Water Distribution Pipe.....	9.67	2.31
33 14 13 39-0005 LF 1-1/4" Type K Copper Water Distribution Pipe.....	11.40	2.77
33 14 13 39-0006 LF 1-1/2" Type K Copper Water Distribution Pipe.....	14.21	3.69
33 14 13 39-0007 LF 2" Type K Copper Water Distribution Pipe.....	19.33	4.61
33 14 13 39-0008 LF 2-1/2" Type K Copper Water Distribution Pipe.....	27.97	5.54
33 14 13 39-0009 LF 3" Type K Copper Water Distribution Pipe.....	35.82	6.09
33 14 13 39-0010 LF 3-1/2" Type K Copper Water Distribution Pipe.....	47.53	7.66
33 14 13 39-0011 LF 4" Type K Copper Water Distribution Pipe.....	60.66	9.69
33 14 13 39-0012 LF 5" Type K Copper Water Distribution Pipe.....	130.23	12.10
33 14 13 39-0013 LF 6" Type K Copper Water Distribution Pipe.....	180.95	14.59
33 14 13 39-0014 LF 8" Type K Copper Water Distribution Pipe.....	315.16	16.34
33 14 13 43 Public Water Utility Distribution Piping Coatings And Wraps (33 14 13)		
33 14 13 43-0001 Pipe Coatings (33 14 13 43)		
33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)		
33 14 13 43-0003 LF 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	2.92	
33 14 13 43-0004 LF 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	3.48	
33 14 13 43-0005 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	4.11	
33 14 13 43-0006 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	5.46	
33 14 13 43-0007 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	6.22	
33 14 13 43-0008 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	6.54	
33 14 13 43-0009 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	7.05	
33 14 13 43-0010 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	8.21	
33 14 13 43-0011 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	10.78	
33 14 13 43-0012 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	17.03	
33 14 13 43-0013 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	36.71	
33 14 13 43-0014 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	41.95	
33 14 13 43-0015 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	47.20	
33 14 13 43-0016 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	52.44	
33 14 13 43-0017 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	57.69	
33 14 13 43-0018 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	62.90	
33 14 13 43-0019 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating.....	68.17	
33 14 13 43-0020 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)		
Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0021 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh.....	7.73	
Note: Reinforcing applied at fabrication shop.		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0022	LF	6" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	9.51	
33 14 13 43-0023	LF	8" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	11.89	
33 14 13 43-0024	LF	10" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	13.24	
33 14 13 43-0025	LF	12" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	14.95	
33 14 13 43-0026	LF	14" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	17.50	
33 14 13 43-0027	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	19.88	
33 14 13 43-0028	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	22.43	
33 14 13 43-0029	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	24.93	
33 14 13 43-0030	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	29.91	
33 14 13 43-0031	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	37.38	
33 14 13 43-0032	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	44.86	
33 14 13 43-0033	LF	42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.10	
33 14 13 43-0034	LF	48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.68	
33 14 13 43-0035	LF	54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.27	
33 14 13 43-0036	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85	
33 14 13 43-0037	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0040		Pipe Lining (33 14 13 43)		
33 14 13 43-0041		Cement Pipe Lining (33 14 13 43-0040) Note: Shop applied.		
33 14 13 43-0042	LF	4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	10.78 1.03	
33 14 13 43-0043	LF	6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	13.38 1.27	
33 14 13 43-0044	LF	8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	16.37 1.58	
33 14 13 43-0045	LF	10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	21.18 1.98	
33 14 13 43-0046	LF	12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	25.98 2.38	
33 14 13 43-0047	LF	14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	32.95 2.79	
33 14 13 43-0048	LF	16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	42.24 3.17	
33 14 13 43-0049	LF	18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	50.25 3.04	
33 14 13 43-0050	LF	20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	60.33 3.38	
33 14 13 43-0051	LF	24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	73.10 4.05	
33 14 13 43-0052	LF	30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	88.21 5.06	
33 14 13 43-0053	LF	36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	106.12 6.08	
33 14 13 43-0054	LF	42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	123.84 5.21	
33 14 13 43-0055	LF	48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	141.48 5.96	
33 14 13 43-0056	LF	54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	159.19 6.70	
33 14 13 43-0057	LF	60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	176.90 7.45	
33 14 13 43-0058	LF	66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	194.55 4.37	
33 14 13 43-0059	LF	72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	212.26 4.77	
33 14 13 43-0060	LF	78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	229.97 5.16	
33 14 13 43-0061		Cement Fitting Lining (33 14 13 43-0060) Note: Shop applied.		



		Utilities	33	33
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0062 EA 4" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	10.78 1.03	
33 14 13 43-0063 EA 6" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	13.38 1.27	
33 14 13 43-0064 EA 8" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	20.86 2.06	
33 14 13 43-0065 EA 10" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	34.15 3.17	
33 14 13 43-0066 EA 12" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	51.99 4.77	
33 14 13 43-0067 EA 14" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	76.42 6.41	
33 14 13 43-0068 EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	111.57 8.24	
33 14 13 43-0069 EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining For 1/2" Thick, Add	150.74 9.11	
33 14 13 43-0070 EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining For 1/2" Thick, Add	201.01 11.25	
33 14 13 43-0071 EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining For 1/2" Thick, Add	292.39 16.20	
33 14 13 43-0072 8 Mil Polyethylene Encasement Tubing (33 14 13 43) Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0073 LF 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	0.62	
33 14 13 43-0074 LF 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.07	
33 14 13 43-0075 LF 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.38	
33 14 13 43-0076 LF 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.77	
33 14 13 43-0077 LF 24" Diameter, 8 Mil Polyethylene Encasement Tubing	2.50	
33 14 13 43-0078 LF 30" Diameter, 8 Mil Polyethylene Encasement Tubing	3.26	
33 14 13 43-0079 LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.12	
33 14 13 43-0080 LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing	4.93	
33 14 13 43-0081 LF 54" To 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.20	
33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)		
33 14 13 53-0001 Double Stud Stainless Steel Service Saddles (33 14 13 53) Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002 EA 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	222.92	
33 14 13 53-0003 EA 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	317.35	
33 14 13 53-0004 EA 4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	327.37	
33 14 13 53-0005 EA 6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	268.52	
33 14 13 53-0006 EA 6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	339.23	
33 14 13 53-0007 EA 8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	280.29	
33 14 13 53-0008 EA 8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	355.06	
33 14 13 53-0009 EA 10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	316.54	
33 14 13 53-0010 EA 10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	374.01	
33 14 13 53-0011 EA 12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	329.86	
33 14 13 53-0012 EA 12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	384.32	
33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53) Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014 EA 1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith- Blair 313)	183.63	
33 14 13 53-0015 EA 2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	183.76	
33 14 13 53-0016 EA 2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	195.47	
33 14 13 53-0017 EA 2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	187.04	
33 14 13 53-0018 EA 3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	200.16	
33 14 13 53-0019 EA 3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	221.99	
33 14 13 53-0020 EA 3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	236.17	
33 14 13 53-0021 EA 4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	215.54	
33 14 13 53-0022 EA 4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	237.56	
33 14 13 53-0023 EA 4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	249.54	
33 14 13 53-0024 EA 5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	227.36	
33 14 13 53-0025 EA 5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	250.10	
33 14 13 53-0026 EA 5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	262.03	
33 14 13 53-0027 EA 6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	239.62	
33 14 13 53-0028 EA 6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	261.68	
33 14 13 53-0029 EA 6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	273.44	
33 14 13 53-0030 EA 6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	407.23	
33 14 13 53-0031 EA 6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	417.25	
33 14 13 53-0032 EA 8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	259.95	
33 14 13 53-0033 EA 8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	286.76	
33 14 13 53-0034 EA 8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	297.62	
33 14 13 53-0035 EA 8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	483.73	
33 14 13 53-0036 EA 10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	292.11	
33 14 13 53-0037 EA 10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	324.44	
33 14 13 53-0038 EA 10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	541.55	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0039 EA 12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	318.43	
33 14 13 53-0040 EA 12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	352.68	
33 14 13 53-0041 EA 12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	365.17	
33 14 13 53-0042 EA 12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	605.88	
33 14 13 53-0043 EA 14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	373.71	
33 14 13 53-0044 EA 14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	400.37	
33 14 13 53-0045 EA 14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	431.75	
33 14 13 53-0046 EA 14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	748.41	
33 14 13 53-0047 EA 15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	383.73	
33 14 13 53-0048 EA 15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	438.68	
33 14 13 53-0049 EA 15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	476.97	
33 14 13 53-0050 EA 15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	805.15	
33 14 13 53-0051 EA 16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	401.01	
33 14 13 53-0052 EA 16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	458.01	
33 14 13 53-0053 EA 16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	476.79	
33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	837.98	
33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	445.14	
33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	516.24	
33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	509.29	
33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	564.45	
33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	532.04	
33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	601.86	
33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)		
33 14 13 53-0062 EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	256.95	
33 14 13 53-0063 EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	281.38	
33 14 13 53-0064 EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	292.37	
33 14 13 53-0065 EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	317.03	
33 14 13 53-0066 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	326.68	
33 14 13 53-0067 EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	343.34	
33 14 13 53-0068 EA 10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	315.41	
33 14 13 53-0069 EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	335.73	
33 14 13 53-0070 EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	403.59	
33 14 13 53-0071 EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	437.05	
33 14 13 53-0072 EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	614.62	
33 14 13 53-0073 EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	517.79	
33 14 13 53-0074 EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	716.08	
33 14 13 53-0075 EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B).....	591.30	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)		
Note: Taps are compression or NPT.		
33 14 13 53-0077 EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	270.64	
33 14 13 53-0078 EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	298.66	
33 14 13 53-0079 EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	308.55	
33 14 13 53-0080 EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	335.52	
33 14 13 53-0081 EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	346.68	
33 14 13 53-0082 EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	364.42	
33 14 13 53-0083 EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	391.65	
33 14 13 53-0084 EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	419.50	
33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	421.93	
33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	457.74	
33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	660.04	
33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	550.61	
33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	769.97	
33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S).....	630.42	
33 14 13 53-0091 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)		
33 14 13 53-0092 EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	1,227.06	
33 14 13 53-0093 EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	1,480.65	
33 14 13 53-0094 EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	1,772.44	
33 14 13 53-0095 EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	1,877.52	
33 14 13 53-0096 EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	2,880.89	
33 14 13 53-0097 EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	3,028.53	
33 14 13 53-0098 EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	3,091.01	
33 14 13 53-0099 EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	3,031.16	
33 14 13 53-0100 EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	3,178.19	
33 14 13 53-0101 EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	3,538.62	
33 14 13 53-0102 EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	3,628.99	
33 14 13 53-0103 EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	6,125.27	
33 14 13 53-0104 EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	6,291.62	
33 14 13 53-0105 EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	6,365.58	



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0106 EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,396.53	
33 14 13 53-0107 EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,631.56	
33 14 13 53-0108 EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,618.68	
33 14 13 53-0109 EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,638.73	
33 14 13 53-0110 EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,824.77	
33 14 13 53-0111 EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,867.51	
33 14 13 53-0112 EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,914.69	
33 14 13 53-0113 EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,662.99	
33 14 13 53-0114 EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,251.49	
33 14 13 53-0115 EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,236.54	
33 14 13 53-0116 EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,658.53	
33 14 13 53-0117 EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,773.38	
33 14 13 53-0118 EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,125.41	
33 14 13 53-0119 EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,618.69	
33 14 13 53-0120 EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,295.49	
33 14 13 53-0121 EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,455.51	
33 14 13 53-0122 EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,517.10	
33 14 13 53-0123 EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,829.83	
33 14 13 53-0124 EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,991.35	
33 14 13 53-0125 EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,221.31	
33 14 13 53-0126 EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,425.55	
33 14 13 53-0127 EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,568.64	
33 14 13 53-0128 EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,609.02	
33 14 13 53-0129 EA 24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	14,756.44	
33 14 13 53-0130 EA 24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	14,945.56	
33 14 13 53-0131 EA 24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	14,985.62	
33 14 13 53-0132 EA 24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,398.29	
33 14 13 53-0133 EA 24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,592.78	

33 14 13 53-0134

Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0135 EA 4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,012.21
33 14 13 53-0136 EA 6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,070.38
33 14 13 53-0137 EA 6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,172.98
33 14 13 53-0138 EA 8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,203.15
33 14 13 53-0139 EA 8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,253.44
33 14 13 53-0140 EA 8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,446.52
33 14 13 53-0141 EA 10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,311.08
33 14 13 53-0142 EA 10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,359.99
33 14 13 53-0143 EA 10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,529.51
33 14 13 53-0144 EA 10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,136.56
33 14 13 53-0145 EA 12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,471.06
33 14 13 53-0146 EA 12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,543.60
33 14 13 53-0147 EA 12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,710.41
33 14 13 53-0148 EA 12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,254.03
33 14 13 53-0149 EA 12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,463.61
33 14 13 53-0150 EA 14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,946.40
33 14 13 53-0151 EA 14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,006.12
33 14 13 53-0152 EA 14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,366.02
33 14 13 53-0153 EA 14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,812.63
33 14 13 53-0154 EA 14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,102.45
33 14 13 53-0155 EA 16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,316.63
33 14 13 53-0156 EA 16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,378.34
33 14 13 53-0157 EA 16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,616.01
33 14 13 53-0158 EA 16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,255.53
33 14 13 53-0159 EA 16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,405.36
33 14 13 53-0160 EA 18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,447.40
33 14 13 53-0161 EA 18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,560.59
33 14 13 53-0162 EA 18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,718.52
33 14 13 53-0163 EA 18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,471.36
33 14 13 53-0164 EA 18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,621.01
33 14 13 53-0165 EA 20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,962.45
33 14 13 53-0166 EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,024.02
33 14 13 53-0167 EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,380.56
33 14 13 53-0168 EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,984.66
33 14 13 53-0169 EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,240.00
33 14 13 53-0170 EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,192.39
33 14 13 53-0171 EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,329.36
33 14 13 53-0172 EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,514.96
33 14 13 53-0173 EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,373.10
33 14 13 53-0174 EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,529.21

33 14 13 53-0175

Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0176 EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,176.80
33 14 13 53-0177 EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,278.26
33 14 13 53-0178 EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,354.12
33 14 13 53-0179 EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,377.03
33 14 13 53-0180 EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,464.68
33 14 13 53-0181 EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,729.91
33 14 13 53-0182 EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,580.28

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0183 EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,677.65	
33 14 13 53-0184 EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,915.19	
33 14 13 53-0185 EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,603.91	
33 14 13 53-0186 EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,801.54	
33 14 13 53-0187 EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,934.90	
33 14 13 53-0188 EA 12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,249.28	
33 14 13 53-0189 EA 12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,659.38	
33 14 13 53-0190 EA 12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,972.52	
33 14 13 53-0191 EA 14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,055.29	
33 14 13 53-0192 EA 14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,219.27	
33 14 13 53-0193 EA 14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,573.47	
33 14 13 53-0194 EA 14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,983.98	
33 14 13 53-0195 EA 14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,200.29	
33 14 13 53-0196 EA 16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,514.43	
33 14 13 53-0197 EA 16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,739.23	
33 14 13 53-0198 EA 16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,910.12	
33 14 13 53-0199 EA 16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,351.64	
33 14 13 53-0200 EA 16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,650.60	
33 14 13 53-0201 EA 18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,766.68	
33 14 13 53-0202 EA 18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,103.51	
33 14 13 53-0203 EA 18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,281.94	
33 14 13 53-0204 EA 18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,669.70	
33 14 13 53-0205 EA 18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,183.30	
33 14 13 53-0206 EA 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,981.30	
33 14 13 53-0207 EA 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,317.28	
33 14 13 53-0208 EA 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,461.90	
33 14 13 53-0209 EA 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,185.01	
33 14 13 53-0210 EA 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,586.74	
33 14 13 53-0211 EA 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,540.59	
33 14 13 53-0212 EA 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,586.88	
33 14 13 53-0213 EA 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,760.68	
33 14 13 53-0214 EA 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,624.16	
33 14 13 53-0215 EA 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,084.20	
33 14 13 53-0216 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0217 EA 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	309.45	59.60
33 14 13 53-0218 EA 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	387.79	75.15
33 14 13 53-0219 EA 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	510.63	103.65
33 14 13 53-0220 EA 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	659.92	121.79
33 14 13 53-0221 EA 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,028.38	137.34
33 14 13 53-0222 EA 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,149.16	155.47
33 14 13 53-0223 Steel Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0224 EA 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	447.51	59.60
33 14 13 53-0225 EA 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	529.85	75.15
33 14 13 53-0226 EA 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	707.95	103.65
33 14 13 53-0227 EA 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	865.29	121.79
33 14 13 53-0228 EA 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,054.73	137.34
33 14 13 53-0229 EA 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,228.38	155.47
33 14 13 53-0230 EA 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,457.39	171.03
33 14 13 53-0231 EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,723.69	186.57
33 14 13 53-0232 EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,033.39	205.23
33 14 13 53-0233 EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,400.43	225.75
33 14 13 53-0234 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)		
33 14 13 53-0235 EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	397.03	75.15
33 14 13 53-0236 EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	533.42	103.65
33 14 13 53-0237 EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	591.72	121.79
33 14 13 53-0238 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	857.87	137.34
33 14 13 53-0239 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,089.72	155.47
33 14 13 53-0240 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,221.72	171.03
33 14 13 53-0241 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,433.94	186.57
33 14 13 53-0242 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,608.59	205.23
33 14 13 53-0243 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,930.06	225.75
33 14 13 53-0244 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,321.43	248.34
33 14 13 53-0245 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	4,798.36	273.12
33 14 13 53-0246 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	6,465.55	300.48
33 14 13 53-0247 Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0248 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	142.10	41.46
33 14 13 53-0249 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	174.98	49.23
33 14 13 53-0250 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	216.42	59.60
33 14 13 53-0251 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	271.83	75.15
33 14 13 53-0252 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	363.18	103.65
33 14 13 53-0253 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	440.63	121.79
33 14 13 53-0254 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	548.25	137.34



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0255	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)		640.38	155.47
33 14 13 53-0256	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	893.13	171.03
33 14 13 53-0257	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	.....	1,110.11	186.57
33 14 15 Water Service Connections (33 14)					
See CSI section 22 11 19 00-0153 for backflow preventer assemblies.					
33 14 15 23 Water Service Hydrants (33 14 15)					
33 14 15 23-0001 Yard Hydrants (33 14 15 23)					
Note: With 3/4" hose thread outlet.					
33 14 15 23-0002	EA	2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	.....	202.35	33.43
33 14 15 23-0003	EA	4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	.....	212.33	33.43
33 14 15 23-0004	EA	6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	.....	222.32	33.43
33 14 15 23-0005	EA	2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	.....	258.33	42.35
33 14 15 23-0006	EA	4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	.....	268.48	42.35
33 14 15 23-0007	EA	6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	.....	278.62	42.35
33 14 15 23-0008 Sanitary Yard Hydrants (33 14 15 23)					
Note: With 3/4" hose thread outlet.					
33 14 15 23-0009	EA	2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	.....	701.85	69.64
33 14 15 23-0010	EA	4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	.....	733.04	69.64
33 14 15 23-0011	EA	6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	.....	764.24	69.64
33 14 15 23-0012 Flushing Hydrants (33 14 15 23)					
33 14 15 23-0013	EA	2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	.....	498.74	42.87
33 14 19 Valves and Hydrants for Water Utility Service (33 14)					
Note: Flanged valves excludes bolt and gasket set. See CSI section 23 21 13 23-0576 for bolt and gasket sets.					
33 14 19 00-0001 Water Utility Distribution Valves (33 14 19)					
33 14 19 00-0002 Angle Valves (33 14 19 00-0001)					
Note: For connecting meters to water service.					
33 14 19 00-0003 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0002)					
Note: Nibco T-335Y					
33 14 19 00-0004	EA	1/2" Threaded, Class 150, Bronze Angle Valve	.....	59.05	17.83
33 14 19 00-0005	EA	3/4" Threaded, Class 150, Bronze Angle Valve	.....	79.62	23.96
33 14 19 00-0006	EA	1" Threaded, Class 150, Bronze Angle Valve	.....	103.03	29.53
33 14 19 00-0007	EA	1-1/4" Threaded, Class 150, Bronze Angle Valve	.....	131.87	37.10
33 14 19 00-0008	EA	1-1/2" Threaded, Class 150, Bronze Angle Valve	.....	160.17	42.90
33 14 19 00-0009	EA	2" Threaded, Class 150, Bronze Angle Valve	.....	221.96	50.15
33 14 19 00-0010	EA	2-1/2" Threaded, Class 150, Bronze Angle Valve	.....	339.19	68.41
33 14 19 00-0011	EA	3" Threaded, Class 150, Bronze Angle Valve	.....	483.09	78.98
33 14 19 00-0012 Butterfly Valves (33 14 19 00-0001)					
33 14 19 00-0013 Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valves (33 14 19 00-0012)					
33 14 19 00-0014	EA	3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD8)	.....	1,166.10	189.68
33 14 19 00-0015	EA	3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW8)	.....	1,323.10	189.68
33 14 19 00-0016	EA	4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD8)	.....	1,311.29	293.03
33 14 19 00-0017	EA	4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW8)	.....	1,468.29	293.03
33 14 19 00-0018	EA	6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD8)	.....	1,581.91	375.93
33 14 19 00-0019	EA	6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW8)	.....	1,738.91	375.93
33 14 19 00-0020	EA	8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD8)	.....	1,786.01	429.61
33 14 19 00-0021	EA	8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW8)	.....	1,944.01	429.61
33 14 19 00-0022	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD16)	.....	2,332.87	526.30

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0023	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW20).....	2,732.87	526.30
33 14 19 00-0024	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-HD24).....	2,751.42	637.93
33 14 19 00-0025	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S1*MS-3-CW20).....	3,078.42	637.93
33 14 19 00-0026	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-HD12).....	3,537.12	792.10
33 14 19 00-0027	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-CW20).....	4,073.12	792.10
33 14 19 00-0028	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-HD16).....	4,192.13	871.30
33 14 19 00-0029	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-CW20).....	4,534.13	871.30
33 14 19 00-0030	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-HD16).....	5,191.12	968.10
33 14 19 00-0031	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-CW20).....	5,533.12	968.10
33 14 19 00-0032	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-HD30).....	6,111.41	1,089.13
33 14 19 00-0033	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S1*MS-7-CW20).....	6,327.41	1,089.13
33 14 19 00-0034	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-HD30).....	8,943.59	1,340.46
33 14 19 00-0035	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MS-7-CW20).....	9,159.59	1,340.46
33 14 19 00-0036	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MG-WR1-HD16).....	20,290.32	2,255.25
33 14 19 00-0037	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MG-WR1-HD16).....	23,639.90	3,075.34
33 14 19 00-0038	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MG-WR1-HD32).....	30,654.12	4,510.50
33 14 19 00-0039	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S1,S304G0*MG-WR3-HD24).....	37,607.80	5,638.13
33 14 19 00-0040		Check Valves (33 14 19 00-0001)		
33 14 19 00-0041		Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0040) Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0042	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....	697.39	138.46
33 14 19 00-0043	EA	3" Flanged, Swing Type Gravity Operated Check Valve.....	754.83	164.10
33 14 19 00-0044	EA	4" Flanged, Swing Type Gravity Operated Check Valve.....	960.13	220.51
33 14 19 00-0045	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	1,292.89	251.27
33 14 19 00-0046	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,412.11	287.17
33 14 19 00-0047	EA	6" Flanged, Swing Type Gravity Operated Check Valve.....	1,298.63	256.41
33 14 19 00-0048	EA	6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	1,628.31	282.05
33 14 19 00-0049	EA	6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	1,708.21	307.69
33 14 19 00-0050	EA	8" Flanged, Swing Type Gravity Operated Check Valve.....	1,765.57	307.69
33 14 19 00-0051	EA	10" Flanged, Swing Type Gravity Operated Check Valve.....	2,781.72	358.97
33 14 19 00-0052	EA	12" Flanged, Swing Type Gravity Operated Check Valve.....	4,092.07	430.76
33 14 19 00-0053	EA	14" Flanged, Swing Type Gravity Operated Check Valve.....	5,539.60	485.16
33 14 19 00-0054	EA	16" Flanged, Swing Type Gravity Operated Check Valve.....	7,281.99	544.56
33 14 19 00-0055	EA	18" Flanged, Swing Type Gravity Operated Check Valve.....	10,382.23	603.98
33 14 19 00-0056	EA	20" Flanged, Swing Type Gravity Operated Check Valve.....	12,063.12	680.70
33 14 19 00-0057		Combination Air Release Valves (33 14 19 00-0001)		
33 14 19 00-0058	EA	1" Combination Air Release Valve.....	432.76	21.53
33 14 19 00-0059	EA	2" Combination Air Release Valve.....	699.90	36.92
33 14 19 00-0060		Corporation Stop And Curb Valve (33 14 19 00-0001) Note: AWWA C800		
33 14 19 00-0061		Ball Corporation Valves (33 14 19 00-0060) Note: Mueller B-25000.		



		Utilities	33	CS
		Water Utilities	33 10	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0062	EA	3/4" Ball Corporation Valve.....	78.05	21.53
33 14 19 00-0063	EA	1" Ball Corporation Valve.....	97.94	26.67
33 14 19 00-0064	EA	1-1/2" Ball Corporation Valve.....	173.28	38.98
33 14 19 00-0065	EA	2" Ball Corporation Valve.....	258.04	46.15
33 14 19 00-0066		Gate Valve, AWWA C500 And C509 (33 14 19 00-0061)		
33 14 19 00-0067		Gate Valve, Flanged (33 14 19 00-0066)		
		Note: Mueller A-2380-6.		
33 14 19 00-0068	EA	2" Gate Valve, Flanged.....	457.42	109.23
33 14 19 00-0069	EA	2-1/2" Gate Valve, Flanged.....	559.18	136.92
33 14 19 00-0070	EA	3" Gate Valve, Flanged.....	669.90	164.10
33 14 19 00-0071	EA	4" Gate Valve, Flanged.....	815.30	218.46
33 14 19 00-0072	EA	6" Gate Valve, Flanged.....	1,018.65	256.41
33 14 19 00-0073	EA	8" Gate Valve, Flanged.....	1,405.83	307.69
33 14 19 00-0074	EA	10" Gate Valve, Flanged.....	1,974.05	358.97
33 14 19 00-0075	EA	12" Gate Valve, Flanged.....	2,378.11	430.76
33 14 19 00-0076	EA	14" Gate Valve, Flanged.....	4,592.31	485.16
33 14 19 00-0077	EA	16" Gate Valve, Flanged.....	5,929.20	544.56
33 14 19 00-0078	EA	18" Gate Valve, Flanged.....	9,132.27	603.98
33 14 19 00-0079	EA	20" Gate Valve, Flanged.....	10,876.31	680.70
33 14 19 00-0080		Resilient Wedge Gate Valve, Flanged (33 14 19 00-0066)		
		Note: Mueller A-2360-6.		
33 14 19 00-0081	EA	2" Resilient Wedge Gate Valve, Flanged.....	443.91	109.23
33 14 19 00-0082	EA	2-1/2" Resilient Wedge Gate Valve, Flanged.....	543.02	136.92
33 14 19 00-0083	EA	3" Resilient Wedge Gate Valve, Flanged.....	650.73	165.64
33 14 19 00-0084	EA	4" Resilient Wedge Gate Valve, Flanged.....	793.88	218.46
33 14 19 00-0085	EA	6" Resilient Wedge Gate Valve, Flanged.....	990.01	256.41
33 14 19 00-0086	EA	8" Resilient Wedge Gate Valve, Flanged.....	1,361.09	307.69
33 14 19 00-0087	EA	10" Resilient Wedge Gate Valve, Flanged.....	1,902.96	358.97
33 14 19 00-0088	EA	12" Resilient Wedge Gate Valve, Flanged.....	2,292.27	430.76
33 14 19 00-0089		Gate Valve, Mechanical Joint (33 14 19 00-0066)		
		Note: Mueller A-2380-20.		
33 14 19 00-0090	EA	2" Gate Valve, Mechanical Joint.....	491.09	109.23
33 14 19 00-0091	EA	2-1/2" Gate Valve, Mechanical Joint.....	553.68	136.92
33 14 19 00-0092	EA	3" Gate Valve, Mechanical Joint.....	688.24	165.64
33 14 19 00-0093	EA	4" Gate Valve, Mechanical Joint.....	845.21	218.46
33 14 19 00-0094	EA	6" Gate Valve, Mechanical Joint.....	1,041.34	256.41
33 14 19 00-0095	EA	8" Gate Valve, Mechanical Joint.....	1,437.62	307.69
33 14 19 00-0096	EA	10" Gate Valve, Mechanical Joint.....	1,995.75	358.97
33 14 19 00-0097	EA	12" Gate Valve, Mechanical Joint.....	2,476.63	430.76
33 14 19 00-0098	EA	14" Gate Valve, Mechanical Joint.....	4,861.01	485.16
33 14 19 00-0099	EA	16" Gate Valve, Mechanical Joint.....	6,204.46	544.56
33 14 19 00-0100	EA	18" Gate Valve, Mechanical Joint.....	9,623.86	603.98
33 14 19 00-0101	EA	20" Gate Valve, Mechanical Joint.....	11,408.30	680.70
33 14 19 00-0102		Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0066)		
		Note: Mueller A-2360-20.		
33 14 19 00-0103	EA	2" Resilient Wedge Gate Valve, Mechanical Joint.....	475.66	109.23
33 14 19 00-0104	EA	3" Resilient Wedge Gate Valve, Mechanical Joint.....	668.03	165.64
33 14 19 00-0105	EA	4" Resilient Wedge Gate Valve, Mechanical Joint.....	822.10	218.46
33 14 19 00-0106	EA	6" Resilient Wedge Gate Valve, Mechanical Joint.....	1,011.43	256.41
33 14 19 00-0107	EA	8" Resilient Wedge Gate Valve, Mechanical Joint.....	1,391.08	307.69
33 14 19 00-0108	EA	10" Resilient Wedge Gate Valve, Mechanical Joint.....	1,923.42	358.97
33 14 19 00-0109	EA	12" Resilient Wedge Gate Valve, Mechanical Joint.....	2,385.19	430.76
33 14 19 00-0110		Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0066)		
		Note: Mueller A-2361.		
33 14 19 00-0111	EA	14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	4,455.43	485.16
33 14 19 00-0112	EA	16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	4,870.26	544.56
33 14 19 00-0113	EA	18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	7,397.95	603.98
33 14 19 00-0114	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	8,795.08	680.70
33 14 19 00-0115	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	12,299.39	792.10
33 14 19 00-0116		Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0066)		
		Note: NIBCO T-113.		
33 14 19 00-0117	EA	1/4" Gate Valve, Bronze, Threaded.....	41.77	17.94
33 14 19 00-0118	EA	3/8" Gate Valve, Bronze, Threaded.....	43.48	17.94
33 14 19 00-0119	EA	1/2" Gate Valve, Bronze, Threaded.....	44.39	17.94
33 14 19 00-0120	EA	3/4" Gate Valve, Bronze, Threaded.....	58.50	24.24
33 14 19 00-0121	EA	1" Gate Valve, Bronze, Threaded.....	71.45	29.30
33 14 19 00-0122	EA	1-1/4" Gate Valve, Bronze, Threaded.....	93.73	37.10
33 14 19 00-0123	EA	1-1/2" Gate Valve, Bronze, Threaded.....	108.46	42.90

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0124 EA 2" Gate Valve, Bronze, Threaded	129.91	50.15
33 14 19 00-0125 EA 2-1/2" Gate Valve, Bronze, Threaded	213.77	68.41
33 14 19 00-0126 EA 3" Gate Valve, Bronze, Threaded	252.41	78.46
33 14 19 00-0127 Globe Valve, AWWA (33 14 19 00-0001)		
33 14 19 00-0128 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0127)		
Note: NIBCO T-235.		
33 14 19 00-0129 EA 1/8" Globe Valve, Threaded	52.82	17.94
33 14 19 00-0130 EA 1/4" Globe Valve, Threaded	49.39	17.94
33 14 19 00-0131 EA 3/8" Globe Valve, Threaded	51.10	17.94
33 14 19 00-0132 EA 1/2" Globe Valve, Threaded	52.82	17.94
33 14 19 00-0133 EA 3/4" Globe Valve, Threaded	71.57	24.24
33 14 19 00-0134 EA 1" Globe Valve, Threaded	94.56	29.30
33 14 19 00-0135 EA 1-1/4" Globe Valve, Threaded	131.06	37.10
33 14 19 00-0136 EA 1-1/2" Globe Valve, Threaded	154.64	42.90
33 14 19 00-0137 EA 2" Globe Valve, Threaded	203.71	50.15
33 14 19 00-0138 EA 2-1/2" Globe Valve, Threaded	344.29	68.41
33 14 19 00-0139 EA 3" Globe Valve, Threaded	452.97	78.87
33 14 19 00-0140 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0001)		
33 14 19 00-0141 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0140)		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0142 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	641.64	136.92
33 14 19 00-0143 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	806.03	165.64
33 14 19 00-0144 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	946.80	218.46
33 14 19 00-0145 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,219.59	256.41
33 14 19 00-0146 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,663.54	307.69
33 14 19 00-0147 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,287.23	358.97
33 14 19 00-0148 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,259.96	430.76
33 14 19 00-0149 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	5,499.39	485.16
33 14 19 00-0150 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	6,889.71	544.56
33 14 19 00-0151 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,835.42	604.97
33 14 19 00-0152 Accessories For Valves (33 14 19)		
33 14 19 00-0153 EA 1" Valve Extension Stem	82.97	
For Each Additional LF, Add 5.49		
33 14 19 00-0154 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly	921.43	102.56
Note: Excludes valve.		
33 14 19 00-0155 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly	1,041.97	112.81
Note: Excludes valve.		
33 14 19 00-0156 EA Adjust Water Valve Box To Grade	102.56	
33 14 19 00-0157 Roadway Or Curb Valve Boxes (33 14 19)		
See CSI section 22 05 19 00-0000 for metering.		
33 14 19 00-0158 Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 19 00-0157)		
33 14 19 00-0159 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	141.28	13.54
Note: Includes cover, top section and bottom section.		
33 14 19 00-0160 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	161.29	13.54
Note: Includes cover, top section and bottom section.		
33 14 19 00-0161 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	162.21	13.54
Note: Includes cover, top section and bottom section.		
33 14 19 00-0162 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	45.98	6.77
33 14 19 00-0163 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	51.27	6.77
33 14 19 00-0164 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	59.24	6.77
33 14 19 00-0165 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box	208.50	16.92
Note: Includes cover, top section and bottom section.		
33 14 19 00-0166 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	353.81	23.69
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0167 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	391.13	23.69
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 19 00-0168 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	215.90	16.92
Note: Includes cover, top section and bottom section.		
33 14 19 00-0169 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	224.81	16.92
Note: Includes cover, top section and bottom section.		
33 14 19 00-0170 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	218.00	16.92
Note: Includes cover, top section and bottom section.		
33 14 19 00-0171 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	79.84	6.77
33 14 19 00-0172 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	143.46	27.86
33 14 19 00-0173 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes	147.51	28.97
33 14 19 00-0174 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes	163.88	30.09
33 14 19 00-0175 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Boxes	215.18	31.76
33 14 19 00-0176 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes	256.41	33.43
33 14 19 00-0177 EA 18" Cast Iron Service Box Extension Section	58.12	
33 14 19 00-0178 Plastic Roadway Grade Water Meter Box And Cover (33 14 19 00-0157)		



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MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0179	EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	190.93	39.00
33 14 19 00-0180	EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	142.20	27.86
33 14 19 00-0181	EA Cast Iron Lid For Plastic Meter Box	39.83	
33 14 19 00-0182	Traffic Valve Box And Lid (33 14 19 00-0157)		
33 14 19 00-0183	EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	148.92	
33 14 19 00-0184	EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	410.68	
33 14 19 00-0185	Utility Box (33 14 19)		
	Note: Christy Concrete Products.		
33 14 19 00-0186	B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0185)		
33 14 19 00-0187	EA 9-3/8" x 15-1/2" Precast Concrete Utility Box	74.15	50.76
33 14 19 00-0188	EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box	50.04	5.64
33 14 19 00-0189	EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	24.92	5.64
33 14 19 00-0190	EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box	101.13	5.64
33 14 19 00-0191	EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	39.40	11.28
33 14 19 00-0192	EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	50.50	11.28
33 14 19 00-0193	B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0185)		
33 14 19 00-0194	EA 10-1/4" x 17-1/4" Precast Concrete Utility Box	93.73	67.68
33 14 19 00-0195	EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box	58.82	6.77
33 14 19 00-0196	EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	28.28	6.77
33 14 19 00-0197	EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box	105.75	5.64
33 14 19 00-0198	EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box	42.45	11.28
33 14 19 00-0199	EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	59.10	16.92
33 14 19 00-0200	EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box	83.64	31.02
33 14 19 00-0201	B12 Utility Box, 12" x 20" (33 14 19 00-0185)		
33 14 19 00-0202	EA 12" x 20" Precast Concrete Utility Box	102.37	73.32
33 14 19 00-0203	EA Cast Iron Lid For 12" x 20" Utility Box	101.29	8.46
33 14 19 00-0204	EA Reinforced Concrete Lid For 12" x 20" Utility Box	40.67	11.28
33 14 19 00-0205	EA Steel Checkered Plate Cover For 12" x 20" Utility Box	146.82	11.28
33 14 19 00-0206	EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box	107.86	39.48
33 14 19 00-0207	B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0185)		
33 14 19 00-0208	EA 12" x 22-1/4" Precast Concrete Utility Box	118.67	85.73
33 14 19 00-0209	EA Cast Iron Lid For 12" x 22-1/4" Utility Box	116.59	11.28
33 14 19 00-0210	EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	46.96	11.28
33 14 19 00-0211	EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	147.57	11.28
33 14 19 00-0212	EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box	70.09	19.17
33 14 19 00-0213	EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box	108.91	39.48
33 14 19 00-0214	B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0185)		
33 14 19 00-0215	EA 13-1/4" x 24" Precast Concrete Utility Box	141.86	101.52
33 14 19 00-0216	EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box	66.80	18.05
33 14 19 00-0217	EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box	183.31	14.66
33 14 19 00-0218	EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box	70.09	19.17
33 14 19 00-0219	EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box	110.10	31.58
33 14 19 00-0220	EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box	81.98	21.43
33 14 19 00-0221	EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box	140.63	50.76
33 14 19 00-0222	B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0185)		
33 14 19 00-0223	EA 17-1/4" x 30" Precast Concrete Utility Box	182.86	128.59
33 14 19 00-0224	EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box	110.83	31.02
33 14 19 00-0225	EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box	233.59	21.43
33 14 19 00-0226	EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box	115.55	40.61
33 14 19 00-0227	EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box	166.30	45.12
33 14 19 00-0228	EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box	184.85	65.43
33 14 19 00-0229	B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0185)		
33 14 19 00-0230	EA 24-1/2" x 36" Precast Concrete Utility Box	336.50	198.53
33 14 19 00-0231	EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	290.37	74.45
33 14 19 00-0232	EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	334.60	32.71
33 14 19 00-0233	EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	248.64	69.94
33 14 19 00-0234	EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	262.71	73.32
33 14 19 00-0235	B48 Utility Box, 30-1/4" x 48-1/4" (33 14 19 00-0185)		
33 14 19 00-0236	EA 30-1/4" x 48-1/4" Precast Concrete Utility Box	454.53	225.60
33 14 19 00-0237	EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	425.44	122.96
33 14 19 00-0238	EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	496.67	122.96

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33 14 19 00-0239 EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	535.42	56.40
33 14 19 00-0240 EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	424.11	152.28
33 14 19 00-0241 EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	339.62	102.64
33 14 19 00-0242 Fire Hydrants (33 14 19) Note: Breakaway type.		
33 14 19 00-0243 Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0242) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0244 EA 1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,797.29	263.15
33 14 19 00-0245 EA 2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,828.39	263.15
33 14 19 00-0246 EA 2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,859.57	263.15
33 14 19 00-0247 EA 3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,909.40	281.95
33 14 19 00-0248 EA 3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,940.53	281.95
33 14 19 00-0249 EA 4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,995.18	305.44
33 14 19 00-0250 EA 4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,026.26	305.44
33 14 19 00-0251 EA 5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,080.93	328.94
33 14 19 00-0252 EA 5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,112.06	328.94
33 14 19 00-0253 EA 6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,166.63	352.43
33 14 19 00-0254 EA 6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,221.25	375.93
33 14 19 00-0255 EA 7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,299.31	422.92
33 14 19 00-0256 EA 1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,825.67	263.15
33 14 19 00-0257 EA 2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,866.03	263.15
33 14 19 00-0258 EA 2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,906.29	263.15
33 14 19 00-0259 EA 3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	1,965.35	281.95
33 14 19 00-0260 EA 3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,005.61	281.95
33 14 19 00-0261 EA 4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,069.51	305.44
33 14 19 00-0262 EA 4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,109.72	305.44
33 14 19 00-0263 EA 5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,173.52	328.94
33 14 19 00-0264 EA 5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,213.77	328.94
33 14 19 00-0265 EA 6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,277.45	352.43
33 14 19 00-0266 EA 6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,341.31	375.93
33 14 19 00-0267 EA 7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	2,428.49	422.92
33 14 19 00-0268 Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0242) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0269 EA 1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,626.58	263.15
33 14 19 00-0270 EA 2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,657.57	263.15
33 14 19 00-0271 EA 2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,688.74	263.15
33 14 19 00-0272 EA 3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,738.70	281.95
33 14 19 00-0273 EA 3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,769.73	281.95
33 14 19 00-0274 EA 4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,824.31	305.44
33 14 19 00-0275 EA 4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,855.44	305.44
33 14 19 00-0276 EA 5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,910.14	328.94
33 14 19 00-0277 EA 5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,941.20	328.94
33 14 19 00-0278 EA 6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,995.94	352.43
33 14 19 00-0279 EA 6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,050.36	375.93
33 14 19 00-0280 EA 7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,128.49	422.92
33 14 19 00-0281 EA 1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,670.42	263.15
33 14 19 00-0282 EA 2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,710.69	263.15
33 14 19 00-0283 EA 2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,750.90	263.15
33 14 19 00-0284 EA 3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,810.06	281.95
33 14 19 00-0285 EA 3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,850.22	281.95
33 14 19 00-0286 EA 4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,914.05	305.44
33 14 19 00-0287 EA 4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	1,954.23	305.44
33 14 19 00-0288 EA 5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,018.16	328.94
33 14 19 00-0289 EA 5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,058.32	328.94
33 14 19 00-0290 EA 6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,122.14	352.43
33 14 19 00-0291 EA 6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,185.80	375.93
33 14 19 00-0292 EA 7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	2,273.20	422.92
33 14 19 00-0293 Three Way, Modern Model Fire Hydrant (33 14 19 00-0242) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0294 EA 1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	1,869.87	263.15
33 14 19 00-0295 EA 2' Burial Section, Three Way, Modern Type Fire Hydrant.....	1,910.08	263.15
33 14 19 00-0296 EA 2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	1,950.41	263.15
33 14 19 00-0297 EA 3' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,009.49	281.95
33 14 19 00-0298 EA 3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,049.73	281.95
33 14 19 00-0299 EA 4' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,113.48	305.44
33 14 19 00-0300 EA 4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,153.77	305.44
33 14 19 00-0301 EA 5' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,217.54	328.94
33 14 19 00-0302 EA 5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,257.79	328.94
33 14 19 00-0303 EA 6' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,321.54	328.94
33 14 19 00-0304 EA 6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,385.42	375.93
33 14 19 00-0305 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....	2,472.18	375.93
33 14 19 00-0306 Two Way, Modern Model Fire Hydrant (33 14 19 00-0242) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		



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33 14 19 00-0307 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	1,365.68	263.15
33 14 19 00-0308 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant	1,396.28	263.15
33 14 19 00-0309 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	1,427.22	263.15
33 14 19 00-0310 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant	1,476.26	281.95
33 14 19 00-0311 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	1,506.85	281.95
33 14 19 00-0312 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant	1,560.93	305.44
33 14 19 00-0313 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	1,591.51	305.44
33 14 19 00-0314 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant	1,645.64	328.94
33 14 19 00-0315 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	1,676.14	328.94
33 14 19 00-0316 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant	1,730.23	352.43
33 14 19 00-0317 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	1,784.36	375.93
33 14 19 00-0318 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant	1,861.56	422.92
33 14 19 00-0319 Fire Hydrant Extension Kits (33 14 19 00-0242)		
33 14 19 00-0320 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	303.09	23.50
33 14 19 00-0321 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	362.85	29.37
33 14 19 00-0322 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	401.78	35.24
33 14 19 00-0323 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	463.08	43.47
33 14 19 00-0324 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	661.00	45.23
33 14 19 00-0325 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	703.52	46.99
33 14 19 00-0326 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	717.29	49.34
33 14 19 00-0327 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	759.02	52.87
33 14 19 00-0328 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	846.46	63.43
33 14 19 00-0329 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	910.91	76.36
33 14 19 00-0330 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	336.62	26.31
33 14 19 00-0331 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	402.02	31.96
33 14 19 00-0332 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	464.25	38.53
33 14 19 00-0333 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	527.61	47.93
33 14 19 00-0334 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	692.76	49.81
33 14 19 00-0335 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	736.00	51.69
33 14 19 00-0336 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	768.18	54.51
33 14 19 00-0337 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	888.74	58.27
33 14 19 00-0338 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	985.12	69.55
33 14 19 00-0339 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,055.34	83.65
33 14 19 00-0340 Remove And Reinstall Standard Fire Hydrant (33 14 19 00-0242)		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0341 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant	751.85	
33 14 19 00-0342 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant	1,096.45	
33 14 19 00-0343 EA Reset Fire Hydrant Upper Barrel	892.27	
Note: Includes Safety Repair Kit		
33 14 23 Enclosures for Water Utility Piping and Valves (33 14)		
See CSI section 22 11 19 00-0390 for Enclosures.		
33 16 Water Utility Storage Tanks (33 10)		
33 16 23 Ground-Level Steel Water Storage Tanks (33 16)		
See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.		
33 19 Water Utility Metering Equipment (33 10)		
33 19 11 Water Utility Metering (33 19)		
33 19 11 00-0001 Bronze Disk Type Water Service Meters (33 19 11)		
33 19 11 00-0002 EA 5/8" Diameter, 0 - 20 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	151.48	57.95
33 19 11 00-0003 EA 3/4" Diameter, 0 - 30 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	187.94	69.09
33 19 11 00-0004 EA 1" Diameter, 0 - 50 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	243.99	79.12
33 19 11 00-0005 EA 1-1/2" Diameter, 0 - 100 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	452.81	118.12
33 19 11 00-0006 EA 2" Diameter, 0 - 160 GPM, Screwed, Water Supply Meter, Disk Type, Bronze	610.01	153.78
33 19 11 00-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 11)		
33 19 11 00-0008 EA 5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	317.98	57.95
For Owner Furnished Material, Deduct		-259.33
33 19 11 00-0009 EA 3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	363.82	69.09
For Owner Furnished Material, Deduct		-294.18
33 19 11 00-0010 EA 1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	530.97	79.12
For Owner Furnished Material, Deduct		-451.38
33 19 11 00-0011 EA 1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	891.39	118.12
For Owner Furnished Material, Deduct		-772.85
33 19 11 00-0012 EA 2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i)	1,107.15	153.78
For Owner Furnished Material, Deduct		-952.38
33 19 11 00-0013 EA Electronic Transmitter	248.86	27.86
Note: For use with transmitting meter valve.		
For Owner Furnished Material, Deduct		-221.00

33 Utilities**33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 11 00-0014	Flanged Compound Type Water Service Meter (33 19 11)			
33 19 11 00-0015	EA	2" Diameter, 0 - 160 GPM Water Service Meter Compound Type, Flanged And Bronze	1,729.78	179.39
33 19 11 00-0016	EA	3" Diameter, 0 - 320 GPM Water Service Meter Compound Type, Flanged And Bronze	2,143.55	238.26
33 19 11 00-0017	EA	4" Diameter, 0 - 500 GPM Water Service Meter Compound Type, Flanged And Bronze	3,431.13	330.25
33 19 11 00-0018	EA	6" Diameter, 0 - 1,000 GPM Water Service Meter Compound Type, Flanged And Bronze	4,859.94	488.19
33 19 11 00-0019	EA	8" Diameter, 0 - 1,600 GPM Water Service Meter Compound Type, Flanged And Bronze	9,526.79	641.02
33 19 11 00-0020	EA	10" Diameter, 0 - 2,500 GPM Water Service Meter Compound Type, Flanged And Bronze	15,880.78	776.91
33 19 11 00-0021	Flanged Turbine Water Service Meter (33 19 11)			
33 19 11 00-0022	Vertical Turbine Meters (33 19 11 00-0021)			
33 19 11 00-0023	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....	538.93	141.54
33 19 11 00-0024	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	732.30	179.39
33 19 11 00-0025	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	1,256.43	293.43
33 19 11 00-0026	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	1,812.61	406.35
33 19 11 00-0027	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	3,274.51	598.04
33 19 11 00-0028	Horizontal Turbine Meters (33 19 11 00-0021)			
33 19 11 00-0029	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	744.38	141.54
33 19 11 00-0030	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,025.60	179.39
33 19 11 00-0031	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,374.02	293.43
33 19 11 00-0032	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	1,968.04	406.35
33 19 11 00-0033	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	3,840.83	598.04
33 19 11 00-0034	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	5,135.44	784.91
33 19 11 00-0035	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	7,006.33	951.37
33 19 11 00-0036	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	8,276.15	1,158.96
33 30	Sanitary Sewerage Utilities (33)			
33 31	Sanitary Sewerage Piping (33 30)			
33 31 11	Public Sanitary Sewerage Gravity Piping (33 31)			
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill.				
33 31 11 00-0001	Plastic Sewer And Drain Piping (33 31 11)			
33 31 11 00-0002	Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)			
33 31 11 00-0003	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	5.09	3.09
33 31 11 00-0004	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	6.17	3.76
33 31 11 00-0005	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	9.20	5.34
33 31 11 00-0006	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	10.42	5.82
33 31 11 00-0007	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.14	7.50
33 31 11 00-0008	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	19.53	10.04
33 31 11 00-0009	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	27.55	13.32
33 31 11 00-0010	Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)			
Note: D-2729 PVC pipe.				
33 31 11 00-0011	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	9.44	5.85
33 31 11 00-0012	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.81	7.39
33 31 11 00-0013	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	18.09	11.08
33 31 11 00-0014	Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)			
33 31 11 00-0015	1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)			
33 31 11 00-0016	EA	1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	19.44	12.47
33 31 11 00-0017	EA	2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	25.07	16.14
33 31 11 00-0018	EA	3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	35.40	21.67
33 31 11 00-0019	EA	4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	43.57	25.05
33 31 11 00-0020	EA	6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	85.65	32.55
33 31 11 00-0021	EA	8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	128.69	43.80
33 31 11 00-0022	EA	10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	170.64	58.35
33 31 11 00-0023	1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)			
33 31 11 00-0024	EA	1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	19.61	12.47
33 31 11 00-0025	EA	2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	25.05	16.14
33 31 11 00-0026	EA	3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	35.15	21.67
33 31 11 00-0027	EA	4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	42.34	25.05
33 31 11 00-0028	EA	6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	82.54	32.55
33 31 11 00-0029	EA	8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	121.45	43.80
33 31 11 00-0030	EA	10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	149.36	58.35
33 31 11 00-0031	Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)			
33 31 11 00-0032	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	21.23	12.29



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 31 11 00-0033	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		26.23	16.14
33 31 11 00-0034	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		39.13	22.14
33 31 11 00-0035	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		52.02	27.02
33 31 11 00-0036	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		72.95	31.24
33 31 11 00-0037	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		102.53	35.64
33 31 11 00-0038	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		145.23	41.56
33 31 11 00-0039 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0040	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		19.97	12.47
33 31 11 00-0041	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		25.42	16.14
33 31 11 00-0042	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		36.19	21.67
33 31 11 00-0043	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		44.27	25.05
33 31 11 00-0044	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		96.01	32.55
33 31 11 00-0045	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		143.76	43.80
33 31 11 00-0046	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		174.07	58.35
33 31 11 00-0047 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0048	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		25.60	16.14
33 31 11 00-0049	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		37.89	22.14
33 31 11 00-0050	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		37.14	22.14
33 31 11 00-0051	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		45.16	25.05
33 31 11 00-0052	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		45.51	25.05
33 31 11 00-0053	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		81.28	32.55
33 31 11 00-0054	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		131.36	38.46
33 31 11 00-0055	EA	10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		129.20	69.51
33 31 11 00-0056	EA	10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		143.18	69.51
33 31 11 00-0057	EA	10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....		137.65	69.51
33 31 11 00-0058 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0059	EA	1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		29.55	18.86
33 31 11 00-0060	EA	2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		38.37	24.39
33 31 11 00-0061	EA	3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		53.22	32.18
33 31 11 00-0062	EA	4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		69.27	39.97
33 31 11 00-0063	EA	6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		120.24	43.80
33 31 11 00-0064	EA	8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....		158.09	58.35
33 31 11 00-0065 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0066	EA	1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		30.84	18.86
33 31 11 00-0067	EA	2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		39.12	24.39
33 31 11 00-0068	EA	3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		54.19	32.18
33 31 11 00-0069	EA	4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		70.84	39.97
33 31 11 00-0070	EA	6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		114.35	43.80
33 31 11 00-0071	EA	8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		146.91	58.35
33 31 11 00-0072	EA	10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain		194.62	77.86
33 31 11 00-0073 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0074	EA	2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		32.86	18.86
33 31 11 00-0075	EA	2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		41.09	24.39
33 31 11 00-0076	EA	3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain		52.85	32.18
33 31 11 00-0077	EA	4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain		68.69	39.97
33 31 11 00-0078	EA	4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain		70.16	39.97
33 31 11 00-0079 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0080	EA	1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		42.02	24.39
33 31 11 00-0081	EA	2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		55.38	32.18
33 31 11 00-0082	EA	3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		83.38	43.43
33 31 11 00-0083	EA	4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		115.86	52.53
33 31 11 00-0084	EA	2" x 2" x 1-1/2" x 1-1/2 Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		54.77	32.18
33 31 11 00-0085	EA	3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		78.71	43.43
33 31 11 00-0086	EA	4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....		108.15	52.53
33 31 11 00-0087 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)					
33 31 11 00-0088	EA	1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		32.45	18.86
33 31 11 00-0089	EA	2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		41.63	24.39
33 31 11 00-0090	EA	3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		61.75	32.18
33 31 11 00-0091	EA	4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		87.80	39.97
33 31 11 00-0092	EA	2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		47.11	24.39
33 31 11 00-0093	EA	3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		66.71	32.18
33 31 11 00-0094	EA	3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		59.81	32.18
33 31 11 00-0095	EA	4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		85.47	39.97
33 31 11 00-0096	EA	4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain		87.60	39.97

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0097		Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)		
33 31 11 00-0098	EA	1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	43.27	24.39
33 31 11 00-0099	EA	2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	55.52	32.18
33 31 11 00-0100	EA	3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	77.64	43.43
33 31 11 00-0101	EA	4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	144.86	52.53
33 31 11 00-0102	EA	6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	327.02	58.16
33 31 11 00-0103		Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)		
33 31 11 00-0104	EA	4" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	187.77	97.92
33 31 11 00-0105	EA	6" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	308.23	126.32
33 31 11 00-0106	EA	8" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	414.95	178.01
33 31 11 00-0107	EA	10" Clean Out Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain	625.63	286.36
33 31 11 00-0108		Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)		
33 31 11 00-0109	EA	1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	19.40	12.47
33 31 11 00-0110	EA	2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	24.73	16.04
33 31 11 00-0111	EA	3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	34.08	21.48
33 31 11 00-0112	EA	4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	40.50	25.05
33 31 11 00-0113	EA	6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	65.29	32.55
33 31 11 00-0114	EA	8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	113.13	43.80
33 31 11 00-0115	EA	10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	161.11	58.35
33 31 11 00-0116		Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)		
33 31 11 00-0117	EA	4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting.....	112.18	72.00
33 31 11 00-0118	EA	2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	83.49	54.77
33 31 11 00-0119	EA	2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	84.10	54.77
33 31 11 00-0120	EA	3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	85.74	54.77
33 31 11 00-0121	EA	4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	112.63	72.00
33 31 11 00-0122	EA	4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	111.32	72.00
33 31 11 00-0123	EA	4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	109.17	72.00
33 31 11 00-0124	EA	4" Drain Grate, Drain And Sewer Fitting	57.05	37.03
33 31 11 00-0125		Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)		
33 31 11 00-0126	EA	3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	23.91	13.41
33 31 11 00-0127	EA	4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	33.51	16.70
33 31 11 00-0128	EA	6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	52.65	21.57
33 31 11 00-0129		Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0014)		
33 31 11 00-0130	EA	1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	19.47	12.47
33 31 11 00-0131	EA	2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	25.19	16.14
33 31 11 00-0132	EA	3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	34.98	21.67
33 31 11 00-0133	EA	4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain	42.19	25.05
33 31 11 00-0134	EA	6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	61.18	32.55
33 31 11 00-0135	EA	8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	145.01	43.80
33 31 11 00-0136		Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0137	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	9.62	4.34
33 31 11 00-0138	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	12.42	4.69
33 31 11 00-0139	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	16.56	5.31
33 31 11 00-0140	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	21.97	6.25
33 31 11 00-0141	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	27.06	6.44
33 31 11 00-0142	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	42.18	10.61
33 31 11 00-0143	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	56.62	13.65
33 31 11 00-0144	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	73.25	15.93
33 31 11 00-0145	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	88.83	18.20
33 31 11 00-0146	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	107.91	20.47
33 31 11 00-0147		Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0148	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	8.61	4.34
33 31 11 00-0149	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	10.63	4.69
33 31 11 00-0150	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	13.65	5.31
33 31 11 00-0151		Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0152		1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)		



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0153 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	54.93	22.41
33 31 11 00-0154 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	75.76	26.06
33 31 11 00-0155 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	138.92	29.54
33 31 11 00-0156 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	358.64	34.75
33 31 11 00-0157 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	462.96	44.30
33 31 11 00-0158 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)		
33 31 11 00-0159 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	51.31	22.41
33 31 11 00-0160 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	71.78	26.06
33 31 11 00-0161 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	128.85	29.54
33 31 11 00-0162 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	263.82	34.75
33 31 11 00-0163 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	372.81	44.30
33 31 11 00-0164 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	773.68	62.56
33 31 11 00-0165 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,219.14	88.62
33 31 11 00-0166 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,010.08	117.29
33 31 11 00-0167 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,737.99	156.38
33 31 11 00-0168 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)		
33 31 11 00-0169 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	82.92	33.63
33 31 11 00-0170 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	120.28	37.27
33 31 11 00-0171 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	132.99	39.10
33 31 11 00-0172 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	145.06	40.92
33 31 11 00-0173 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	162.90	42.74
33 31 11 00-0174 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	282.83	44.57
33 31 11 00-0175 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	353.29	45.61
33 31 11 00-0176 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	397.32	47.78
33 31 11 00-0177 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	570.33	49.60
33 31 11 00-0178 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	733.60	52.13
33 31 11 00-0179 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	434.22	55.52
33 31 11 00-0180 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	459.72	57.34
33 31 11 00-0181 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	638.28	59.16
33 31 11 00-0182 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	902.15	61.68
33 31 11 00-0183 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,014.30	66.47
33 31 11 00-0184 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)		
33 31 11 00-0185 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	80.11	33.63
33 31 11 00-0186 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	110.94	37.27
33 31 11 00-0187 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	120.44	39.10
33 31 11 00-0188 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	141.05	40.92
33 31 11 00-0189 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	158.12	42.74
33 31 11 00-0190 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	225.75	44.57
33 31 11 00-0191 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	326.43	45.96
33 31 11 00-0192 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	333.69	47.78
33 31 11 00-0193 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	484.65	49.60
33 31 11 00-0194 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	534.16	52.13
33 31 11 00-0195 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	411.61	55.52
33 31 11 00-0196 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	424.60	57.34
33 31 11 00-0197 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	590.13	59.16
33 31 11 00-0198 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	703.57	61.68
33 31 11 00-0199 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	736.23	66.47
33 31 11 00-0200 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	905.77	79.93
33 31 11 00-0201 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,001.81	84.71
33 31 11 00-0202 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,243.09	93.83
33 31 11 00-0203 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)		
33 31 11 00-0204 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	54.61	22.41
33 31 11 00-0205 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	77.90	26.06
33 31 11 00-0206 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	108.04	29.72
33 31 11 00-0207 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	187.81	34.75
33 31 11 00-0208 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	262.56	44.30
33 31 11 00-0209 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	494.69	62.56
33 31 11 00-0210 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	907.73	88.62
33 31 11 00-0211 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,490.77	117.29
33 31 11 00-0212 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,147.60	156.38
33 31 11 00-0213 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)		
33 31 11 00-0214 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	89.92	24.24
33 31 11 00-0215 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	122.07	26.06
33 31 11 00-0216 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	129.04	27.88
33 31 11 00-0217 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	265.31	30.41
33 31 11 00-0218 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	302.79	32.24
33 31 11 00-0219 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	337.69	35.19
33 31 11 00-0220 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	384.94	37.01
33 31 11 00-0221 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	439.08	39.53
33 31 11 00-0222 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	656.34	53.43

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 31 11 00-0223 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)

33 31 11 00-0224	EA	6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	79.11	
33 31 11 00-0225	EA	8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	102.03	
33 31 11 00-0226	EA	8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	103.76	
33 31 11 00-0227	EA	10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	159.78	
33 31 11 00-0228	EA	10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	167.02	
33 31 11 00-0229	EA	10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	291.62	
33 31 11 00-0230	EA	12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	184.14	
33 31 11 00-0231	EA	12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	197.72	
33 31 11 00-0232	EA	12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	398.88	
33 31 11 00-0233	EA	12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	464.25	
33 31 11 00-0234	EA	15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	220.47	
33 31 11 00-0235	EA	15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	232.32	

33 31 11 00-0236 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0151)

33 31 11 00-0237	EA	6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	83.16	
33 31 11 00-0238	EA	8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	102.03	
33 31 11 00-0239	EA	8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	109.28	
33 31 11 00-0240	EA	10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	149.04	
33 31 11 00-0241	EA	10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	166.15	
33 31 11 00-0242	EA	10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	237.54	
33 31 11 00-0243	EA	12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	183.28	
33 31 11 00-0244	EA	12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	196.90	
33 31 11 00-0245	EA	12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	277.79	
33 31 11 00-0246	EA	12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	330.58	
33 31 11 00-0247	EA	15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	219.94	
33 31 11 00-0248	EA	15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	228.31	
33 31 11 00-0249	EA	15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	347.91	
33 31 11 00-0250	EA	15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	379.77	
33 31 11 00-0251	EA	15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	516.70	

33 31 11 00-0252 Couplings And Plug Fittings (33 31 11)

33 31 11 00-0253 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)

Flexible Pipe Couplings (33 31 11 00-0252)

Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps. Fernco 1056.

33 31 11 00-0254	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	17.56	6.77
33 31 11 00-0255	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	19.29	7.89
33 31 11 00-0256	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	22.01	9.02
33 31 11 00-0257	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	24.70	9.59
33 31 11 00-0258	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	29.34	10.15
33 31 11 00-0259	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	34.03	11.28
33 31 11 00-0260	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	41.81	12.41
33 31 11 00-0261	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	50.30	12.97
33 31 11 00-0262	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	90.85	13.53
33 31 11 00-0263	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	122.42	14.66
33 31 11 00-0264	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	232.20	15.23
33 31 11 00-0265	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	269.27	16.08
33 31 11 00-0266	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	298.03	16.92
33 31 11 00-0267	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling	356.52	18.05

33 31 11 00-0268 Cast Iron Service Saddles With U Bolt (33 31 11)

33 31 11 00-0269	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	97.45	
33 31 11 00-0270	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	97.88	
33 31 11 00-0271	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt.....	107.90	
33 31 11 00-0272	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	104.10	
33 31 11 00-0273	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	117.09	
33 31 11 00-0274	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	131.16	
33 31 11 00-0275	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	155.16	
33 31 11 00-0276	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	130.57	
33 31 11 00-0277	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	140.13	
33 31 11 00-0278	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	164.87	
33 31 11 00-0279	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	106.55	
33 31 11 00-0280	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	116.57	
33 31 11 00-0281	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt.....	136.88	
33 31 11 00-0282	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	162.19	
33 31 11 00-0283	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	173.62	

33 32 Sanitary Sewerage Equipment (33 30)

33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)

33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Equipment	33 32	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 32 16 00-0002	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge..... Note: Zoeller 840 series.	2,086.57	334.51
33 32 16 00-0003	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge..... Note: Zoeller 840 series.	2,057.27	334.51
33 32 16 00-0004	EA	Simplex Control Panel With Auto Reversing Switch Note: For Zoeller 840 series grinder pump.	983.84	111.46
33 32 16 00-0005	EA	Duplex Control Panel With Auto Reversing Switch..... Note: For Zoeller 840 series grinder pump.	1,528.40	111.46
33 32 16 00-0006	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	7,327.30	
33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)				
Note: Includes 50' of cord with pumps unless otherwise noted.				
33 32 16 00-0008	EA	2 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof.....	3,530.87	615.07
33 32 16 00-0009	EA	3 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof.....	5,312.65	717.58
33 32 16 00-0010	EA	5 HP Submersible Grinder Pump @ 3450RPM, Explosion Proof.....	6,498.13	922.60
33 34 Onsite Wastewater Disposal (33 30)				
Note: Excludes distribution field piping, trenching or excavation.				
33 34 13 Septic Tanks (33 34)				
33 34 13 13 Concrete Septic Tanks (33 34 13)				
33 34 13 13-0001 Precast Concrete Septic Tank (33 34 13 13)				
Note: Includes external coating.				
33 34 13 13-0002	EA	1,000 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	2,409.71 -413.59	615.07
33 34 13 13-0003	EA	1,250 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	2,867.09 -508.39	678.93
33 34 13 13-0004	EA	1,500 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	3,308.05 -599.05	742.70
33 34 13 13-0005	EA	2,000 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	4,175.32 -796.76	807.27
33 34 13 13-0006	EA	2,500 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	5,047.60 -920.90	1,114.81
33 34 13 13-0007	EA	4,000 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	12,745.19 -2,714.74	1,537.67
33 34 13 13-0008	EA	5,000 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	22,939.00 -5,029.44	2,306.50
33 34 13 13-0009	EA	7,500 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	26,018.36 -5,522.19	3,229.10
33 34 13 13-0010	EA	10,000 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	31,863.61 -6,787.02	3,863.45
33 34 13 13-0011	EA	12,500 Gallon Precast Septic Tank For Non-Traffic Rated, Deduct	37,778.84 -7,971.11	4,786.05
33 34 13 23 Fiberglass Septic Tank (33 34 13)				
33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)				
33 34 13 23-0002	EA	1,000 Gallon Fiberglass Septic Tank.....	1,336.45	461.30
33 34 13 23-0003	EA	1,250 Gallon Fiberglass Septic Tank.....	1,700.42	615.07
33 34 13 23-0004	EA	1,500 Gallon Fiberglass Septic Tank.....	1,784.32	557.46
33 34 13 23-0005	EA	2,000 Gallon Fiberglass Septic Tank.....	2,198.45	603.49
33 34 13 23-0006	EA	2,500 Gallon Fiberglass Septic Tank.....	2,716.53	836.50
33 34 13 23-0007	EA	4,000 Gallon Fiberglass Septic Tank.....	6,346.72	1,153.25
33 34 13 23-0008	EA	5,000 Gallon Fiberglass Septic Tank.....	11,247.50	1,729.88
33 34 13 23-0009	EA	7,500 Gallon Fiberglass Septic Tank.....	12,977.41	2,421.83
33 34 13 23-0010	EA	10,000 Gallon Fiberglass Septic Tank.....	15,875.08	2,894.61
33 34 13 33 Polyethylene Septic Tank (33 34 13)				
33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)				
33 34 13 33-0002	EA	300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	841.10	205.12
33 34 13 33-0003	EA	500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,222.82	230.77
33 34 13 33-0004	EA	900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,667.27	282.05
33 34 13 33-0005	EA	1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,727.44	307.69
33 34 13 33-0006	EA	1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,982.07	333.33
33 34 13 33-0007	EA	1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,343.46	358.97
33 34 13 33-0008	EA	750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,655.39	256.41
33 34 13 33-0009	EA	1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,829.12	307.69
33 34 13 33-0010	EA	1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,126.96	333.33
33 34 13 33-0011	EA	1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,470.56	358.97
33 34 51 Drainage Field System (33 34)				
33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)				
Note: Includes external coating.				
33 34 51 00-0002	EA	3' Diameter, 3' High, Precast Concrete Leaching Pit	836.38	90.21

33 Utilities**33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,180.76	128.14
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	1,572.77	153.77
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	2,557.88	256.27
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	3,739.53	358.78
33 34 53 Distribution Chambers (33 34)		
33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)		
33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)		
Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box.....	232.53	64.79
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box.....	272.43	77.75
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box.....	441.95	90.71
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	854.96	155.50
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	956.40	70.50
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,162.53	96.12
33 34 56 Drainage Field Dosing Chambers (33 34)		
33 34 56 00-0001 Dosing Siphon (33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	4,087.67	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon	2,791.93	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon	2,683.37	
33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
See CSI section 33 42 11 00-0201 for polyethylene drain pipe.		
33 41 16 00-0001 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16)		
Note: Includes fittings, couplings, elbows, etc.		
33 41 16 00-0002 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	4.64	3.36
33 41 16 00-0003 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	5.06	3.63
33 41 16 00-0004 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	6.82	4.36
33 41 16 00-0005 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	10.04	5.45
33 41 16 00-0006 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	15.40	6.23
33 41 16 00-0007 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	19.54	7.26
33 41 16 00-0008 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	33.21	8.71
33 41 16 00-0009 Perforated Non Reinforced Concrete Drainage Piping, C444 (33 41 16)		
33 41 16 00-0010 LF 6" Perforated Non Reinforced Concrete Drainage Pipe	19.24	4.64
For Extra Strength, Add		
	1.11	
For >1,000, Deduct		
	-0.96	
33 41 16 00-0011 LF 8" Perforated Non Reinforced Concrete Drainage Pipe	22.35	5.41
For Extra Strength, Add		
	1.37	
For >1,000, Deduct		
	-1.12	
33 41 16 00-0012 LF 10" Perforated Non Reinforced Concrete Drainage Pipe	25.31	6.18
For Extra Strength, Add		
	1.60	
For >1,000, Deduct		
	-1.27	
33 41 16 00-0013 LF 12" Perforated Non Reinforced Concrete Drainage Pipe	30.06	7.73
For Extra Strength, Add		
	2.00	
For >1,000, Deduct		
	-1.50	
33 41 16 00-0014 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16)		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 00-0015 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	19.94	9.74
For >1,000, Deduct		
	-1.00	
33 41 16 00-0016 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	22.08	10.82
For >1,000, Deduct		
	-1.10	
33 41 16 00-0017 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	24.35	11.90
For >1,000, Deduct		
	-1.22	
33 41 16 00-0018 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	27.58	12.37
For >1,000, Deduct		
	-1.38	
33 41 16 00-0019 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	31.84	13.91
For >1,000, Deduct		
	-1.59	
33 41 16 00-0020 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	39.45	17.77
For >1,000, Deduct		
	-1.97	
33 41 16 00-0021 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	49.34	22.79
For >1,000, Deduct		
	-2.47	
33 41 16 00-0022 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	60.13	27.82
For >1,000, Deduct		
	-3.01	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 00-0023		Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16)		
33 41 16 00-0024	LF	6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	14.65 -0.73	4.64
33 41 16 00-0025	LF	8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	18.55 -0.93	5.41
33 41 16 00-0026	LF	10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	23.62 -1.18	6.18
33 41 16 00-0027	LF	12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	34.58 -1.73	12.37
33 41 16 00-0028	LF	15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	39.46 -1.97	13.91
33 41 16 00-0029	LF	18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe <i>For >1,000, Deduct</i>	50.89 -2.54	17.77
33 41 16 00-0030		Perforated Vitrified Clay Drainage Piping, C700 (33 41 16)		
33 41 16 00-0031	LF	4" Perforated Vitrified Clay Drainage Pipe <i>For Full Perforated, Add</i>	12.84 0.65	6.18
33 41 16 00-0032	LF	6" Perforated Vitrified Clay Drainage Pipe <i>For Full Perforated, Add</i>	16.85 0.85	6.18
33 41 16 00-0033	LF	8" Perforated Vitrified Clay Drainage Pipe <i>For Full Perforated, Add</i>	19.57 1.07	6.18
33 41 16 00-0034	LF	10" Perforated Vitrified Clay Drainage Pipe <i>For Full Perforated, Add</i>	24.09 1.12	6.18
33 41 16 00-0035	LF	12" Perforated Vitrified Clay Drainage Pipe <i>For Full Perforated, Add</i>	28.95 1.40	6.18
33 41 16 00-0036		Geotextile Filter Fabric Sock (33 41 16)		
33 41 16 00-0037	LF	3" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	0.56 1.07	
33 41 16 00-0038	LF	4" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	0.73 1.24	
33 41 16 00-0039	LF	6" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	1.11 1.28	
33 41 16 00-0040	LF	8" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	1.49 1.61	
33 41 16 00-0041	LF	10" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	2.14 1.94	
33 41 16 00-0042	LF	12" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	2.87 2.30	
33 41 16 00-0043	LF	15" Geotextile Filter Fabric Sock..... <i>For Full Perforated, Add</i>	3.35 2.01	
33 41 16 00-0044		Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16) Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0045	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	15.73 0.65	4.64
33 41 16 00-0046	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	19.74 0.85	5.62
33 41 16 00-0047	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	24.92 1.07	7.14
33 41 16 00-0048	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	28.01 1.12	8.43
33 41 16 00-0049	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	31.47 1.40	8.73
33 41 16 00-0050	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	35.01 1.69	9.05
33 41 16 00-0051	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	39.06 2.01	9.47
33 41 16 00-0052		Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16) Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0053	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	16.77 0.75	4.64
33 41 16 00-0054	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	21.15 0.99	5.62
33 41 16 00-0055	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	26.63 1.24	7.14
33 41 16 00-0056	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	29.68 1.28	8.43
33 41 16 00-0057	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	33.53 1.61	8.73
33 41 16 00-0058	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	37.45 1.94	9.05
33 41 16 00-0059	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe <i>For Full Perforated, Add</i>	41.92 2.30	9.47
33 41 16 00-0060		Strip-Perforated, Corrugated Aluminum Pipe (33 41 16) Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 00-0061	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	17.10 0.78	4.64
33 41 16 00-0062	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	21.58 1.03	5.62
33 41 16 00-0063	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	27.18 1.29	7.14
33 41 16 00-0064	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	33.79 1.69	8.43

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 00-0065 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	38.65 2.12	8.73
33 41 16 00-0066 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	43.67 2.56	9.05
33 41 16 00-0067 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe <i>For Full Perforated, Add</i>	49.16 3.02	9.47
33 41 19 Underslab Drainage^(33 41)		
33 41 19 00-0001 Capillary Water Barrier Underslab Drainage^(33 41 19) Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 00-0002 CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	57.68	
33 41 19 00-0003 CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	55.62	
33 41 19 00-0004 CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	54.80	
33 41 19 00-0005 CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	53.56	
33 42 Stormwater Conveyance^(33 40) Note: Piping includes hydrostatic testing, disinfecting and warning tape.		
33 42 11 Stormwater Gravity Piping^(33 42)		
33 42 11 00-0001 Reinforced Concrete Piping^(33 42 11)		
33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets^(33 42 11 00-0001)		
33 42 11 00-0003 LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	34.46 -1.72 1.51 4.78	12.98
33 42 11 00-0004 LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	41.01 -2.05 1.94 6.11	14.44
33 42 11 00-0005 LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	47.17 -2.36 2.04 6.43	18.01
33 42 11 00-0006 LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	60.31 -3.02 2.65 8.36	22.72
33 42 11 00-0007 LF 24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	70.94 -3.55 3.00 9.46	27.59
33 42 11 00-0008 LF 27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	88.55 -4.43 3.78 11.94	34.13
33 42 11 00-0009 LF 30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	93.99 -4.70 4.09 12.91	35.25
33 42 11 00-0010 LF 36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	115.00 -5.75 5.55 17.51	40.06
33 42 11 00-0011 LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	146.78 -7.34 8.02 25.34	44.05
33 42 11 00-0012 LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	174.85 -8.74 9.95 31.43	49.07
33 42 11 00-0013 LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	216.13 -10.81 12.92 40.81	56.08
33 42 11 00-0014 LF 60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	260.22 -13.01 15.89 50.19	65.04
33 42 11 00-0015 LF 66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	392.77 -19.64 27.57 87.07	72.10
33 42 11 00-0016 LF 72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	456.70 -22.84 32.73 103.37	78.50
33 42 11 00-0017 LF 78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets <i>For >1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	547.42 -27.37 40.02 126.38	88.12



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0018 LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	700.59	98.13
For >1,000, Deduct	-35.03	
For Class 4, Add	53.24	
For Class 5, Add	168.12	
33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0020 LF 18" x 12" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....	52.40	19.92
For >1,000, Deduct	-2.62	
For Horizontal Elliptical - II (HE- II), Add	2.40	
For Horizontal Elliptical - III (HE- III), Add	5.27	
For Horizontal Elliptical - IV (HE- IV), Add	11.50	
33 42 11 00-0021 LF 23" x 14" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	80.61	23.95
For >1,000, Deduct	-4.03	
For Horizontal Elliptical - II (HE- II), Add	4.64	
For Horizontal Elliptical - III (HE- III), Add	10.21	
For Horizontal Elliptical - IV (HE- IV), Add	22.27	
33 42 11 00-0022 LF 30" x 19" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	113.11	36.69
For >1,000, Deduct	-5.66	
For Horizontal Elliptical - II (HE- II), Add	6.07	
For Horizontal Elliptical - III (HE- III), Add	13.35	
For Horizontal Elliptical - IV (HE- IV), Add	29.13	
33 42 11 00-0023 LF 34" x 22" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	132.71	45.40
For >1,000, Deduct	-6.64	
For Horizontal Elliptical - II (HE- II), Add	6.79	
For Horizontal Elliptical - III (HE- III), Add	14.93	
For Horizontal Elliptical - IV (HE- IV), Add	32.57	
33 42 11 00-0024 LF 38" x 24" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	147.26	47.43
For >1,000, Deduct	-7.36	
For Horizontal Elliptical - II (HE- II), Add	7.95	
For Horizontal Elliptical - III (HE- III), Add	17.49	
For Horizontal Elliptical - IV (HE- IV), Add	38.16	
33 42 11 00-0025 LF 42" x 27" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	168.21	50.09
For >1,000, Deduct	-8.41	
For Horizontal Elliptical - II (HE- II), Add	9.67	
For Horizontal Elliptical - III (HE- III), Add	21.27	
For Horizontal Elliptical - IV (HE- IV), Add	46.40	
33 42 11 00-0026 LF 45" x 29" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	189.18	52.73
For >1,000, Deduct	-9.46	
For Horizontal Elliptical - II (HE- II), Add	11.39	
For Horizontal Elliptical - III (HE- III), Add	25.05	
For Horizontal Elliptical - IV (HE- IV), Add	54.65	
33 42 11 00-0027 LF 53" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	229.34	58.03
For >1,000, Deduct	-11.47	
For Horizontal Elliptical - II (HE- II), Add	14.65	
For Horizontal Elliptical - III (HE- III), Add	32.22	
For Horizontal Elliptical - IV (HE- IV), Add	70.30	
33 42 11 00-0028 LF 60" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	275.45	65.25
For >1,000, Deduct	-13.77	
For Horizontal Elliptical - II (HE- II), Add	18.22	
For Horizontal Elliptical - III (HE- III), Add	40.09	
For Horizontal Elliptical - IV (HE- IV), Add	87.47	
33 42 11 00-0029 LF 68" x 43" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	334.32	74.58
For >1,000, Deduct	-16.72	
For Horizontal Elliptical - II (HE- II), Add	22.78	
For Horizontal Elliptical - III (HE- III), Add	50.11	
For Horizontal Elliptical - IV (HE- IV), Add	109.33	
33 42 11 00-0030 LF 76" x 48" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	413.61	86.52
For >1,000, Deduct	-20.68	
For Horizontal Elliptical - II (HE- II), Add	29.00	
For Horizontal Elliptical - III (HE- III), Add	63.81	
For Horizontal Elliptical - IV (HE- IV), Add	139.21	
33 42 11 00-0031 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0032 EA 12" Concrete Reducing Wye Without Gaskets	386.06	49.46
33 42 11 00-0033 EA 15" Concrete Reducing Wye Without Gaskets	463.31	60.27
33 42 11 00-0034 EA 18" Concrete Reducing Wye Without Gaskets	569.95	66.45
33 42 11 00-0035 EA 21" Concrete Reducing Wye Without Gaskets	656.02	81.91
33 42 11 00-0036 EA 24" Concrete Reducing Wye Without Gaskets	743.32	98.91
33 42 11 00-0037 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0038 EA 12" Diameter Concrete Pipe Joint Gasket	3.53	
33 42 11 00-0039 EA 15" Diameter Concrete Pipe Joint Gasket	4.18	
33 42 11 00-0040 EA 18" Diameter Concrete Pipe Joint Gasket	4.84	
33 42 11 00-0041 EA 21" Diameter Concrete Pipe Joint Gasket	5.85	
33 42 11 00-0042 EA 24" Diameter Concrete Pipe Joint Gasket	6.85	
33 42 11 00-0043 EA 27" Diameter Concrete Pipe Joint Gasket	7.63	
33 42 11 00-0044 EA 30" Diameter Concrete Pipe Joint Gasket	8.39	
33 42 11 00-0045 EA 36" Diameter Concrete Pipe Joint Gasket	10.25	
33 42 11 00-0046 EA 42" Diameter Concrete Pipe Joint Gasket	11.88	
33 42 11 00-0047 EA 48" Diameter Concrete Pipe Joint Gasket	13.70	
33 42 11 00-0048 EA 54" Diameter Concrete Pipe Joint Gasket	16.80	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0049	EA	60" Diameter Concrete Pipe Joint Gasket.....	24.86	
33 42 11 00-0050	EA	66" Diameter Concrete Pipe Joint Gasket.....	12.92	
33 42 11 00-0051	EA	72" Diameter Concrete Pipe Joint Gasket.....	26.80	
33 42 11 00-0052	EA	78" Diameter Concrete Pipe Joint Gasket.....	15.42	
33 42 11 00-0053	EA	84" Diameter Concrete Pipe Joint Gasket.....	18.49	
33 42 11 00-0054		Prestressed Concrete Cylinder Piping (33 42 11)		
33 42 11 00-0055		150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0054)		
33 42 11 00-0056		150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0055)		
Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".				
33 42 11 00-0057	LF	12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	87.12	12.98
		For >1,000, Deduct	-4.36	
		For 100 PSI, Deduct	-17.15	
33 42 11 00-0058	LF	15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	93.18	14.44
		For >1,000, Deduct	-4.66	
		For 100 PSI, Deduct	-18.14	
33 42 11 00-0059	LF	18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	102.25	18.01
		For >1,000, Deduct	-5.11	
		For 100 PSI, Deduct	-19.13	
33 42 11 00-0060	LF	21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	112.94	22.72
		For >1,000, Deduct	-5.65	
		For 100 PSI, Deduct	-20.12	
33 42 11 00-0061	LF	24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	123.87	27.59
		For >1,000, Deduct	-6.19	
		For 100 PSI, Deduct	-21.12	
33 42 11 00-0062	LF	30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	145.52	35.25
		For >1,000, Deduct	-7.28	
		For 100 PSI, Deduct	-23.64	
33 42 11 00-0063	LF	36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	161.30	40.06
		For >1,000, Deduct	-8.07	
		For 100 PSI, Deduct	-26.17	
33 42 11 00-0064	LF	42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	186.48	44.05
		For >1,000, Deduct	-9.32	
		For 100 PSI, Deduct	-31.04	
33 42 11 00-0065	LF	48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	213.74	49.07
		For >1,000, Deduct	-10.69	
		For 100 PSI, Deduct	-35.91	
33 42 11 00-0066	LF	54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	281.46	62.61
		For >1,000, Deduct	-14.07	
		For 100 PSI, Deduct	-48.01	
33 42 11 00-0067	LF	60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	338.36	72.63
		For >1,000, Deduct	-16.92	
		For 100 PSI, Deduct	-58.65	
33 42 11 00-0068	LF	66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	379.77	80.49
		For >1,000, Deduct	-18.99	
		For 100 PSI, Deduct	-66.32	
33 42 11 00-0069	LF	72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	423.00	87.65
		For >1,000, Deduct	-21.15	
		For 100 PSI, Deduct	-74.45	
33 42 11 00-0070	LF	78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	480.15	98.38
		For >1,000, Deduct	-24.01	
		For 100 PSI, Deduct	-84.82	
33 42 11 00-0071	LF	84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	537.31	109.57
		For >1,000, Deduct	-26.87	
		For 100 PSI, Deduct	-95.20	
33 42 11 00-0072	LF	90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	661.60	127.90
		For >1,000, Deduct	-33.08	
		For 100 PSI, Deduct	-119.56	
33 42 11 00-0073	LF	96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	777.15	146.05
		For >1,000, Deduct	-38.86	
		For 100 PSI, Deduct	-142.12	
33 42 11 00-0074	LF	102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	903.84	158.95
		For >1,000, Deduct	-45.19	
		For 100 PSI, Deduct	-169.19	
33 42 11 00-0075	LF	108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,017.16	168.80
		For >1,000, Deduct	-50.86	
		For 100 PSI, Deduct	-194.01	
33 42 11 00-0076	LF	114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,220.71	178.64
		For >1,000, Deduct	-61.04	
		For 100 PSI, Deduct	-241.38	
33 42 11 00-0077	LF	120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,414.05	187.65
		For >1,000, Deduct	-70.70	
		For 100 PSI, Deduct	-286.50	
33 42 11 00-0078	LF	126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,538.82	196.67
		For >1,000, Deduct	-76.94	
		For 100 PSI, Deduct	-314.47	
33 42 11 00-0079	LF	132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,665.40	205.67
		For >1,000, Deduct	-83.27	
		For 100 PSI, Deduct	-342.89	
33 42 11 00-0080	LF	138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,791.07	214.69
		For >1,000, Deduct	-89.55	
		For 100 PSI, Deduct	-371.09	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 42 11 00-0081	LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,916.73 -95.84 -399.29		223.70
33 42 11 00-0082	150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33 42 11 00-0085)			
33 42 11 00-0083	EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	335.45		121.70
33 42 11 00-0084	EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	466.83		173.86
33 42 11 00-0085	EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	604.40		231.81
33 42 11 00-0086	EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	741.95		289.77
33 42 11 00-0087	EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	905.01		360.09
33 42 11 00-0088	EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,153.64		482.95
33 42 11 00-0089	EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,410.00		560.74
33 42 11 00-0090	EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,642.80		654.46
33 42 11 00-0091	EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,854.44		747.39
33 42 11 00-0092	EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,287.41		933.24
33 42 11 00-0093	EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,987.05		1,252.17
33 42 11 00-0094	EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,335.29		1,386.33
33 42 11 00-0095	EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,683.54		1,520.50
33 42 11 00-0096	EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,379.67		1,744.10
33 42 11 00-0097	EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,070.86		1,967.70
33 42 11 00-0098	EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,979.35		2,236.02
33 42 11 00-0099	EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,882.92		2,504.35
33 42 11 00-0100	EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,152.26		3,195.71
33 42 11 00-0101	EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,347.97		3,834.84
33 42 11 00-0102	EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,806.63		5,113.13
33 42 11 00-0103	EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,204.79		6,391.41
33 42 11 00-0104	EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,403.23		6,893.59
33 42 11 00-0105	EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,605.07		7,395.77
33 42 11 00-0106	EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,721.90		7,897.95
33 42 11 00-0107	EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,051.19		8,400.13
33 42 11 00-0108	150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33 42 11 00-0085)			
33 42 11 00-0109	EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	317.04		121.70
33 42 11 00-0110	EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	443.01		173.86
33 42 11 00-0111	EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	576.24		231.81
33 42 11 00-0112	EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	709.47		289.77
33 42 11 00-0113	EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	868.19		360.09
33 42 11 00-0114	EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,103.11		450.49
33 42 11 00-0115	EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,352.25		560.74
33 42 11 00-0116	EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,576.03		654.46
33 42 11 00-0117	EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,782.61		747.39
33 42 11 00-0118	EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,179.19		933.24
33 42 11 00-0119	EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,889.83		1,252.17
33 42 11 00-0120	EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,231.03		1,386.33
33 42 11 00-0121	EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,572.23		1,520.50
33 42 11 00-0122	EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,119.85		1,744.10
33 42 11 00-0123	EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,662.53		1,967.70
33 42 11 00-0124	EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,464.04		2,236.02
33 42 11 00-0125	EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,260.62		2,504.35
33 42 11 00-0126	EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,105.04		3,130.44
33 42 11 00-0127	EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,136.90		3,834.84
33 42 11 00-0128	EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	13,300.91		5,113.13
33 42 11 00-0129	EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,404.42		6,391.41
33 42 11 00-0130	EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,206.46		6,893.59
33 42 11 00-0131	EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,011.90		8,400.13
33 42 11 00-0132	EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,821.65		7,897.95
33 42 11 00-0133	EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,878.26		8,400.13
33 42 11 00-0134	400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0054)			
33 42 11 00-0135	400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0134) Note: AWWA C301			
33 42 11 00-0136	LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	169.25 -8.46		35.25
33 42 11 00-0137	LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	205.14 -10.26		40.06
33 42 11 00-0138	LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	238.52 -11.93		44.05
33 42 11 00-0139	400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0134) Note: AWWA C301			
33 42 11 00-0140	LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	318.27 -15.91		49.02
33 42 11 00-0141	LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints..... For >1,000, Deduct	381.79 -19.09		62.61

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0142 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	440.26	72.63
For >1,000, Deduct	-22.01	
33 42 11 00-0143 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	495.16	80.49
For >1,000, Deduct	-24.76	
33 42 11 00-0144 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	596.90	87.65
For >1,000, Deduct	-29.85	
33 42 11 00-0145 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0134)		
Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0146 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,149.47	
33 42 11 00-0147 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,234.61	
33 42 11 00-0148 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,277.18	
33 42 11 00-0149 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,447.48	
33 42 11 00-0150 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,490.05	
33 42 11 00-0151 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,575.19	
33 42 11 00-0152 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,617.77	
33 42 11 00-0153 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,660.34	
33 42 11 00-0154 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,128.64	
33 42 11 00-0155 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,128.64	
33 42 11 00-0156 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,426.65	
33 42 11 00-0157 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,426.65	
33 42 11 00-0158 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,596.94	
33 42 11 00-0159 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,596.94	
33 42 11 00-0160 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,809.81	
33 42 11 00-0161 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,809.81	
33 42 11 00-0162 Quick Test Joints (33 42 11 00-0134)		
33 42 11 00-0163 EA 30" Quick Test Joint.....	329.67	
33 42 11 00-0164 EA 36" Quick Test Joint.....	333.68	
33 42 11 00-0165 EA 42" Quick Test Joint.....	337.69	
33 42 11 00-0166 EA 48" Quick Test Joint.....	345.35	
33 42 11 00-0167 EA 54" Quick Test Joint.....	363.56	
33 42 11 00-0168 EA 60" Quick Test Joint.....	378.60	
33 42 11 00-0169 EA 66" Quick Test Joint.....	399.73	
33 42 11 00-0170 EA 72" Quick Test Joint.....	420.86	
33 42 11 00-0171 Harnessed Joints (33 42 11 00-0134)		
33 42 11 00-0172 Harness Clamp Restrained Joints (33 42 11 00-0171)		
33 42 11 00-0173 EA 30" Harness Clamp Restrained Joint.....	2,855.72	
33 42 11 00-0174 EA 36" Harness Clamp Restrained Joint.....	2,967.10	
33 42 11 00-0175 EA 42" Harness Clamp Restrained Joint.....	3,078.48	
33 42 11 00-0176 EA 48" Harness Clamp Restrained Joint.....	3,189.85	
33 42 11 00-0177 EA 54" Harness Clamp Restrained Joint.....	3,310.56	
33 42 11 00-0178 EA 60" Harness Clamp Restrained Joint.....	3,480.56	
33 42 11 00-0179 EA 66" Harness Clamp Restrained Joint.....	3,596.88	
33 42 11 00-0180 EA 72" Harness Clamp Restrained Joint.....	3,852.78	
33 42 11 00-0181 Snap Ring Restrained Joints (33 42 11 00-0171)		
33 42 11 00-0182 EA 30" Snap Ring Restrained Joint.....	493.56	
33 42 11 00-0183 EA 36" Snap Ring Restrained Joint.....	561.99	
33 42 11 00-0184 EA 42" Snap Ring Restrained Joint.....	748.54	
33 42 11 00-0185 EA 48" Snap Ring Restrained Joint.....	849.17	
33 42 11 00-0186 EA 54" Snap Ring Restrained Joint.....	959.14	
33 42 11 00-0187 EA 60" Snap Ring Restrained Joint.....	1,086.20	
33 42 11 00-0188 EA 66" Snap Ring Restrained Joint.....	1,202.51	
33 42 11 00-0189 EA 72" Snap Ring Restrained Joint.....	1,340.31	
33 42 11 00-0190 Pipe Repairs (33 42 11 00-0134)		
Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
33 42 11 00-0191 Lined Cylinder Pipe Repair (33 42 11 00-0190)		
33 42 11 00-0192 EA 30" Lined Cylinder Pipe Repair.....	5,064.55	
33 42 11 00-0193 EA 36" Lined Cylinder Pipe Repair.....	6,279.23	
33 42 11 00-0194 EA 42" Lined Cylinder Pipe Repair.....	6,612.94	
33 42 11 00-0195 Embedded Cylinder Pipe Repair (33 42 11 00-0190)		
Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0196 EA 48" Embedded Cylinder Pipe Repair.....	9,667.56	
33 42 11 00-0197 EA 54" Embedded Cylinder Pipe Repair.....	11,201.59	
33 42 11 00-0198 EA 60" Embedded Cylinder Pipe Repair.....	12,749.08	
33 42 11 00-0199 EA 66" Embedded Cylinder Pipe Repair.....	14,400.93	
33 42 11 00-0200 EA 72" Embedded Cylinder Pipe Repair.....	17,234.33	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0201	High Density Polyethylene (HDPE) Drainage Piping (33 42 11)		
33 42 11 00-0202	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0201) Note: Excludes couplings and gaskets.		
33 42 11 00-0203	Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0202)		
33 42 11 00-0204	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	11.35 2.10 -0.57	5.25
33 42 11 00-0205	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	14.39 2.44 -0.72	6.10
33 42 11 00-0206	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	17.45 2.84 -0.87	7.09
33 42 11 00-0207	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	19.39 2.94 -0.97	7.34
33 42 11 00-0208	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	20.30 3.04 -1.02	7.60
33 42 11 00-0209	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	22.60 3.15 -1.13	7.87
33 42 11 00-0210	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	26.53 3.26 -1.33	8.16
33 42 11 00-0211	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	35.38 3.82 -1.77	9.56
33 42 11 00-0212	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	49.76 5.15 -2.49	12.87
33 42 11 00-0213	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	65.00 6.51 -3.25	16.27
33 42 11 00-0214	Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0202)		
33 42 11 00-0215	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	20.21 3.04 -1.01	7.60
33 42 11 00-0216	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	22.96 3.15 -1.15	7.87
33 42 11 00-0217	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	27.07 3.26 -1.35	8.16
33 42 11 00-0218	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	36.23 3.82 -1.81	9.56
33 42 11 00-0219	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	52.10 5.15 -2.61	12.87
33 42 11 00-0220	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	66.74 6.51 -3.34	16.27
33 42 11 00-0221	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	84.88 7.10 -4.24	17.74
33 42 11 00-0222	LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	92.97 8.01 -4.65	20.01
33 42 11 00-0223	Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0201) Note: Excludes couplings and gaskets.		
33 42 11 00-0224	Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0223)		
33 42 11 00-0225	LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	11.02 2.10 -0.55	5.25
33 42 11 00-0226	LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	13.38 2.44 -0.67	6.10
33 42 11 00-0227	LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add For >1,000, Deduct	16.26 2.84 -0.81	7.09

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0228 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 2.94 For >1,000, Deduct -0.93	18.52	7.34
33 42 11 00-0229 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.04 For >1,000, Deduct -1.00	19.97	7.60
33 42 11 00-0230 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.15 For >1,000, Deduct -1.14	22.70	7.87
33 42 11 00-0231 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.26 For >1,000, Deduct -1.36	27.20	8.16
33 42 11 00-0232 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.82 For >1,000, Deduct -1.81	36.11	9.56
33 42 11 00-0233 Perforated, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0201) Note: Excludes couplings and gaskets.		
33 42 11 00-0234 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0233)		
33 42 11 00-0235 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 2.10 For >1,000, Deduct -0.59	11.80	5.25
33 42 11 00-0236 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 2.44 For >1,000, Deduct -0.72	14.40	6.10
33 42 11 00-0237 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 2.84 For >1,000, Deduct -0.87	17.45	7.09
33 42 11 00-0238 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 2.94 For >1,000, Deduct -0.97	19.40	7.34
33 42 11 00-0239 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.04 For >1,000, Deduct -1.02	20.30	7.60
33 42 11 00-0240 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.15 For >1,000, Deduct -1.13	22.61	7.87
33 42 11 00-0241 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.26 For >1,000, Deduct -1.33	26.54	8.16
33 42 11 00-0242 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.82 For >1,000, Deduct -1.77	35.38	9.56
33 42 11 00-0243 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 5.15 For >1,000, Deduct -2.50	49.91	12.87
33 42 11 00-0244 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 6.51 For >1,000, Deduct -3.25	65.00	16.27
33 42 11 00-0245 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0233)		
33 42 11 00-0246 LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.04 For >1,000, Deduct -1.01	20.23	7.60
33 42 11 00-0247 LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.15 For >1,000, Deduct -1.15	22.97	7.87
33 42 11 00-0248 LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.26 For >1,000, Deduct -1.35	27.08	8.16
33 42 11 00-0249 LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.82 For >1,000, Deduct -1.81	36.23	9.56
33 42 11 00-0250 LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 5.15 For >1,000, Deduct -2.61	52.10	12.87
33 42 11 00-0251 LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 6.51 For >1,000, Deduct -3.34	66.74	16.27
33 42 11 00-0252 LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 7.10 For >1,000, Deduct -4.24	84.88	17.74



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 42 11 00-0253	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	92.97		20.01
		For <100, Add	8.01		
		For >1,000, Deduct	-4.65		
33 42 11 00-0254		Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0233)			
33 42 11 00-0255	LF	4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	11.30		5.25
		For <100, Add	2.10		
		For >1,000, Deduct	-0.57		
33 42 11 00-0256	LF	6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.38		6.10
		For <100, Add	2.44		
		For >1,000, Deduct	-0.67		
33 42 11 00-0257	LF	8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	16.20		7.09
		For <100, Add	2.84		
		For >1,000, Deduct	-0.81		
33 42 11 00-0258	LF	10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.52		7.34
		For <100, Add	2.94		
		For >1,000, Deduct	-0.93		
33 42 11 00-0259	LF	12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.97		7.60
		For <100, Add	3.04		
		For >1,000, Deduct	-1.00		
33 42 11 00-0260	LF	15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.70		7.87
		For <100, Add	3.15		
		For >1,000, Deduct	-1.14		
33 42 11 00-0261	LF	18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.20		8.16
		For <100, Add	3.26		
		For >1,000, Deduct	-1.36		
33 42 11 00-0262	LF	24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	36.11		9.56
		For <100, Add	3.82		
		For >1,000, Deduct	-1.81		
33 42 11 00-0263		Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0201)			
		Note: Excludes couplings and gaskets.			
33 42 11 00-0264		Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0263)			
33 42 11 00-0265	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	35.50		20.86
33 42 11 00-0266	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	42.27		24.34
33 42 11 00-0267	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	56.11		29.56
33 42 11 00-0268	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	74.93		36.51
33 42 11 00-0269	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	100.63		43.47
33 42 11 00-0270	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	136.36		56.80
33 42 11 00-0271	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	189.66		76.49
33 42 11 00-0272	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	229.23		87.31
33 42 11 00-0273	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	337.02		100.83
33 42 11 00-0274	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	416.63		116.48
33 42 11 00-0275	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	625.35		139.08
33 42 11 00-0276	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	773.20		165.16
33 42 11 00-0277		Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0263)			
33 42 11 00-0278	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	39.93		20.86
33 42 11 00-0279	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	47.14		24.34
33 42 11 00-0280	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	59.18		29.56
33 42 11 00-0281	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	78.31		36.51
33 42 11 00-0282	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	111.53		43.47
33 42 11 00-0283	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	133.02		56.80
33 42 11 00-0284	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	183.15		76.49
33 42 11 00-0285		22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0263)			
33 42 11 00-0286	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	23.11		13.91
33 42 11 00-0287	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	27.35		16.23
33 42 11 00-0288	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	34.95		19.70
33 42 11 00-0289	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	43.42		24.34
33 42 11 00-0290	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	55.10		28.97
33 42 11 00-0291	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	76.23		37.09
33 42 11 00-0292	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	103.31		50.99
33 42 11 00-0293	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	147.68		57.94
33 42 11 00-0294	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	188.63		67.22
33 42 11 00-0295	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	219.66		77.65
33 42 11 00-0296	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	272.60		92.72
33 42 11 00-0297	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	349.52		110.11

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0298	45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0263)			
33 42 11 00-0299	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	23.59	13.91
33 42 11 00-0300	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	28.36	16.23
33 42 11 00-0301	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	35.47	19.70
33 42 11 00-0302	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	47.62	24.34
33 42 11 00-0303	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	55.10	28.97
33 42 11 00-0304	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	76.14	37.09
33 42 11 00-0305	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	110.08	50.99
33 42 11 00-0306	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	152.92	57.94
33 42 11 00-0307	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	188.88	67.22
33 42 11 00-0308	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	230.94	77.65
33 42 11 00-0309	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	316.12	92.72
33 42 11 00-0310	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	388.53	110.11
33 42 11 00-0311	Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0201)			
	Note: Excludes couplings and gaskets.			
33 42 11 00-0312	Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0311)			
33 42 11 00-0313	EA	4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	32.51	20.86
33 42 11 00-0314	EA	6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	38.07	24.34
33 42 11 00-0315	EA	8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	49.38	29.56
33 42 11 00-0316	EA	10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	61.61	36.51
33 42 11 00-0317	EA	12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	78.08	43.47
33 42 11 00-0318	EA	15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	122.66	56.80
33 42 11 00-0319	EA	18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	157.38	76.49
33 42 11 00-0320	EA	24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE)	225.66	86.93
33 42 11 00-0321	Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0311)			
33 42 11 00-0322	EA	4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	32.70	20.86
33 42 11 00-0323	EA	6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	38.67	24.34
33 42 11 00-0324	EA	8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE)	55.66	29.56
33 42 11 00-0325	45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0311)			
33 42 11 00-0326	EA	4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	21.73	13.91
33 42 11 00-0327	90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0311)			
33 42 11 00-0328	EA	4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	21.93	13.91
33 42 11 00-0329	EA	6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	26.16	16.23
33 42 11 00-0330	EA	8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	33.37	19.70
33 42 11 00-0331	EA	10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE)	41.95	24.34
33 42 11 00-0332	Couplings And End Sections, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0201)			
	Note: For single and double wall high density polyethylene (HDPE) piping.			
33 42 11 00-0333	Couplings, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0332)			
33 42 11 00-0334	EA	4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	0.29	
33 42 11 00-0335	EA	6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	0.52	
33 42 11 00-0336	EA	8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	0.80	
33 42 11 00-0337	EA	10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	0.98	
33 42 11 00-0338	EA	12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.06	
33 42 11 00-0339	EA	15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.51	
33 42 11 00-0340	EA	18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	2.23	
33 42 11 00-0341	EA	24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	3.55	
33 42 11 00-0342	EA	30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.44	
33 42 11 00-0343	EA	36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	7.12	
33 42 11 00-0344	EA	42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	11.20	
33 42 11 00-0345	EA	48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	15.15	
33 42 11 00-0346	Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0332)			
33 42 11 00-0347	EA	4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	15.34	
33 42 11 00-0348	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	16.06	
33 42 11 00-0349	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	16.82	
33 42 11 00-0350	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	17.61	
33 42 11 00-0351	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	20.88	
33 42 11 00-0352	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	21.56	
33 42 11 00-0353	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	22.49	
33 42 11 00-0354	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	25.61	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-0355	EA 30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	41.06		
33 42 11 00-0356	EA 36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	44.97		
33 42 11 00-0357	EA 42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	49.00		
33 42 11 00-0358	EA 48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	59.51		
33 42 11 00-0359	Vitrified Clay Piping (33 42 11)			
33 42 11 00-0360	Extra Strength Vitrified Clay Piping (33 42 11 00-0359)			
33 42 11 00-0361	Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0360)			
	Note: ASTM C700.			
33 42 11 00-0362	LF 4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	15.88		
	For 3' Lengths, Add	1.08		
	For 2' Lengths, Add	1.44		
	For Standard Strength, Deduct	-0.36		
	For >1,000, Deduct	-0.79		
33 42 11 00-0363	LF 6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	20.39		
	For 3' Lengths, Add	1.68		
	For 2' Lengths, Add	2.24		
	For Standard Strength, Deduct	-0.56		
	For >1,000, Deduct	-1.02		
33 42 11 00-0364	LF 8" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	25.29		
	For 3' Lengths, Add	2.40		
	For 2' Lengths, Add	3.20		
	For Standard Strength, Deduct	-0.80		
	For >1,000, Deduct	-1.26		
33 42 11 00-0365	LF 10" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	31.40		
	For 3' Lengths, Add	3.68		
	For 2' Lengths, Add	4.90		
	For Standard Strength, Deduct	-1.23		
	For >1,000, Deduct	-1.57		
33 42 11 00-0366	LF 12" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	38.87		
	For 3' Lengths, Add	5.19		
	For 2' Lengths, Add	6.92		
	For Standard Strength, Deduct	-1.73		
	For >1,000, Deduct	-1.94		
33 42 11 00-0367	LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	56.43		
	For 3' Lengths, Add	9.73		
	For 2' Lengths, Add	12.98		
	For Standard Strength, Deduct	-3.24		
	For >1,000, Deduct	-2.82		
33 42 11 00-0368	LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	76.43		
	For 3' Lengths, Add	13.95		
	For 2' Lengths, Add	18.60		
	For Standard Strength, Deduct	-4.65		
	For >1,000, Deduct	-3.82		
33 42 11 00-0369	LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	112.23		
	For 3' Lengths, Add	22.35		
	For 2' Lengths, Add	29.80		
	For Standard Strength, Deduct	-7.45		
	For >1,000, Deduct	-5.61		
33 42 11 00-0370	LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	143.15		
	For 3' Lengths, Add	29.20		
	For 2' Lengths, Add	38.93		
	For Standard Strength, Deduct	-9.73		
	For >1,000, Deduct	-7.16		
33 42 11 00-0371	LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	178.51		
	For 3' Lengths, Add	36.41		
	For 2' Lengths, Add	48.54		
	For Standard Strength, Deduct	-12.14		
	For >1,000, Deduct	-8.93		
33 42 11 00-0372	LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	210.12		
	For 3' Lengths, Add	43.98		
	For 2' Lengths, Add	58.64		
	For Standard Strength, Deduct	-14.66		
	For >1,000, Deduct	-10.51		
33 42 11 00-0373	Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0360)			
	Note: ASTM C425.			
33 42 11 00-0374	LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	18.98		
	For 3' Lengths, Add	1.28		
	For 2' Lengths, Add	1.70		
	For Standard Strength, Deduct	-0.43		
	For >1,000, Deduct	-0.95		
33 42 11 00-0375	LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	24.69		
	For 3' Lengths, Add	2.08		
	For 2' Lengths, Add	2.78		
	For Standard Strength, Deduct	-0.69		
	For >1,000, Deduct	-1.23		
33 42 11 00-0376	LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	30.56		
	For 3' Lengths, Add	2.94		
	For 2' Lengths, Add	3.92		
	For Standard Strength, Deduct	-0.98		
	For >1,000, Deduct	-1.53		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0377 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	39.06	
For 3' Lengths, Add	4.83	
For 2' Lengths, Add	6.44	
For Standard Strength, Deduct	-1.61	
For >1,000, Deduct	-1.95	
33 42 11 00-0378 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	47.03	
For 3' Lengths, Add	6.35	
For 2' Lengths, Add	8.46	
For Standard Strength, Deduct	-2.12	
For >1,000, Deduct	-2.35	
33 42 11 00-0379 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	67.36	
For 3' Lengths, Add	11.57	
For 2' Lengths, Add	15.43	
For Standard Strength, Deduct	-3.86	
For >1,000, Deduct	-3.37	
33 42 11 00-0380 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	92.38	
For 3' Lengths, Add	16.94	
For 2' Lengths, Add	22.59	
For Standard Strength, Deduct	-5.65	
For >1,000, Deduct	-4.62	
33 42 11 00-0381 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	131.20	
For 3' Lengths, Add	25.77	
For 2' Lengths, Add	34.36	
For Standard Strength, Deduct	-8.59	
For >1,000, Deduct	-6.56	
33 42 11 00-0382 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	170.34	
For 3' Lengths, Add	34.61	
For 2' Lengths, Add	46.14	
For Standard Strength, Deduct	-11.54	
For >1,000, Deduct	-8.52	
33 42 11 00-0383 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	269.23	
For 3' Lengths, Add	60.20	
For 2' Lengths, Add	80.26	
For Standard Strength, Deduct	-20.07	
For >1,000, Deduct	-13.46	
33 42 11 00-0384 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	371.80	
For 3' Lengths, Add	88.67	
For 2' Lengths, Add	118.23	
For Standard Strength, Deduct	-29.56	
For >1,000, Deduct	-18.59	
33 42 11 00-0385 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0359)		
33 42 11 00-0386 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0385)		
33 42 11 00-0387 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0386)		
33 42 11 00-0388 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	62.55	
33 42 11 00-0389 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	83.04	
33 42 11 00-0390 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	115.58	
33 42 11 00-0391 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	155.94	
33 42 11 00-0392 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	202.89	
33 42 11 00-0393 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	461.27	
33 42 11 00-0394 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	647.28	
33 42 11 00-0395 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,002.36	
33 42 11 00-0396 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,158.77	
33 42 11 00-0397 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,348.95	
33 42 11 00-0398 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,004.90	
33 42 11 00-0399 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0386)		
33 42 11 00-0400 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	71.40	
33 42 11 00-0401 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	98.95	
33 42 11 00-0402 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	131.41	
33 42 11 00-0403 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	173.16	
33 42 11 00-0404 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	217.03	
33 42 11 00-0405 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	519.05	
33 42 11 00-0406 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	750.04	
33 42 11 00-0407 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	778.18	
33 42 11 00-0408 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,480.83	
33 42 11 00-0409 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,655.41	
33 42 11 00-0410 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,436.66	
33 42 11 00-0411 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0385)		
33 42 11 00-0412 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0411)		
33 42 11 00-0413 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	74.83	
33 42 11 00-0414 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	97.82	
33 42 11 00-0415 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	132.88	
33 42 11 00-0416 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	175.08	
33 42 11 00-0417 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	224.46	
33 42 11 00-0418 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	485.26	
33 42 11 00-0419 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	677.20	



	Utilities	33	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0420 EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,040.09	
33 42 11 00-0421 EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,204.60	
33 42 11 00-0422 EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,406.09	
33 42 11 00-0423 EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,068.42	
33 42 11 00-0424 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0411)		
33 42 11 00-0425 EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	86.13	
33 42 11 00-0426 EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	116.69	
33 42 11 00-0427 EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	152.17	
33 42 11 00-0428 EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	196.14	
33 42 11 00-0429 EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	242.91	
33 42 11 00-0430 EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	547.84	
33 42 11 00-0431 EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	785.94	
33 42 11 00-0432 EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,497.01	
33 42 11 00-0433 EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,535.83	
33 42 11 00-0434 EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,723.99	
33 42 11 00-0435 EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,512.91	
33 42 11 00-0436 Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0385)		
33 42 11 00-0437 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0436)		
33 42 11 00-0438 EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	84.25	
33 42 11 00-0439 EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	108.29	
33 42 11 00-0440 EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	143.35	
33 42 11 00-0441 EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	185.75	
33 42 11 00-0442 EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	231.06	
33 42 11 00-0443 EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	496.73	
33 42 11 00-0444 EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	689.90	
33 42 11 00-0445 EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	988.92	
33 42 11 00-0446 EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,366.57	
33 42 11 00-0447 EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,458.73	
33 42 11 00-0448 EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,071.20	
33 42 11 00-0449 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0436)		
33 42 11 00-0450 EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	102.56	
33 42 11 00-0451 EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	137.30	
33 42 11 00-0452 EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	177.24	
33 42 11 00-0453 EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	225.62	
33 42 11 00-0454 EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	277.49	
33 42 11 00-0455 EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	603.67	
33 42 11 00-0456 EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	862.01	
33 42 11 00-0457 EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,268.24	
33 42 11 00-0458 EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,673.07	
33 42 11 00-0459 EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,942.42	
33 42 11 00-0460 EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	2,727.14	
33 42 11 00-0461 Corrugated Metal Piping (33 42 11)		
33 42 11 00-0462 Galvanized Corrugated Steel Piping (33 42 11 00-0461)		
33 42 11 00-0463 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0462)		
33 42 11 00-0464 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0463)		
33 42 11 00-0465 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	25.81	8.12
For Bituminous Coated Pipe, Add	2.17	
For Bituminous Coated And 25% Paved, Add	4.43	
For Smooth-Flo, Add	7.91	
33 42 11 00-0466 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	28.72	8.50
For Bituminous Coated Pipe, Add	2.72	
For Bituminous Coated And 25% Paved, Add	5.57	
For Smooth-Flo, Add	9.95	
33 42 11 00-0467 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	31.73	9.28
For Bituminous Coated Pipe, Add	3.30	
For Bituminous Coated And 25% Paved, Add	6.75	
For Smooth-Flo, Add	12.06	
33 42 11 00-0468 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	35.84	10.05
For Bituminous Coated Pipe, Add	3.95	
For Bituminous Coated And 25% Paved, Add	8.08	
For Smooth-Flo, Add	14.43	
33 42 11 00-0469 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	39.55	10.82
For Bituminous Coated Pipe, Add	4.44	
For Bituminous Coated And 25% Paved, Add	9.09	
For Smooth-Flo, Add	16.23	
33 42 11 00-0470 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe	52.36	13.91
For Bituminous Coated Pipe, Add	5.77	
For Bituminous Coated And 25% Paved, Add	11.80	
For Smooth-Flo, Add	21.07	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0471 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	67.43	17.62
For Bituminous Coated Pipe, Add	7.27	
For Bituminous Coated And 25% Paved, Add	14.87	
For Smooth-Flo, Add	26.56	
33 42 11 00-0472 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	76.34	20.83
For Bituminous Coated Pipe, Add	8.61	
For Bituminous Coated And 25% Paved, Add	17.60	
For Smooth-Flo, Add	31.44	
33 42 11 00-0473 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	85.84	24.04
For Bituminous Coated Pipe, Add	9.64	
For Bituminous Coated And 25% Paved, Add	19.72	
For Smooth-Flo, Add	35.21	
33 42 11 00-0474 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
42 11 00-0463		
33 42 11 00-0475 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	27.74	8.12
For Bituminous Coated Pipe, Add	2.20	
For Bituminous Coated And 25% Paved, Add	5.09	
For Smooth-Flo, Add	10.29	
33 42 11 00-0476 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	31.10	8.50
For Bituminous Coated Pipe, Add	2.76	
For Bituminous Coated And 25% Paved, Add	6.38	
For Smooth-Flo, Add	12.90	
33 42 11 00-0477 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	34.61	9.28
For Bituminous Coated Pipe, Add	3.34	
For Bituminous Coated And 25% Paved, Add	7.73	
For Smooth-Flo, Add	15.63	
33 42 11 00-0478 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	39.16	10.05
For Bituminous Coated Pipe, Add	3.97	
For Bituminous Coated And 25% Paved, Add	9.19	
For Smooth-Flo, Add	18.58	
33 42 11 00-0479 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	43.42	10.82
For Bituminous Coated Pipe, Add	4.49	
For Bituminous Coated And 25% Paved, Add	10.40	
For Smooth-Flo, Add	21.03	
33 42 11 00-0480 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.08	13.91
For Bituminous Coated Pipe, Add	5.77	
For Bituminous Coated And 25% Paved, Add	13.36	
For Smooth-Flo, Add	27.01	
33 42 11 00-0481 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	73.16	17.62
For Bituminous Coated Pipe, Add	7.23	
For Bituminous Coated And 25% Paved, Add	16.75	
For Smooth-Flo, Add	33.85	
33 42 11 00-0482 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	82.90	20.83
For Bituminous Coated Pipe, Add	8.51	
For Bituminous Coated And 25% Paved, Add	19.71	
For Smooth-Flo, Add	39.85	
33 42 11 00-0483 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	93.35	24.04
For Bituminous Coated Pipe, Add	9.56	
For Bituminous Coated And 25% Paved, Add	22.16	
For Smooth-Flo, Add	44.78	
33 42 11 00-0484 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	111.00	27.23
For Bituminous Coated Pipe, Add	11.76	
For Bituminous Coated And 25% Paved, Add	27.25	
For Smooth-Flo, Add	55.08	
33 42 11 00-0485 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
42 11 00-0463		
33 42 11 00-0486 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	40.57	9.28
For Bituminous Coated Pipe, Add	3.82	
For Bituminous Coated And 25% Paved, Add	6.90	
For Smooth-Flo, Add	13.26	
33 42 11 00-0487 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	46.09	10.05
For Bituminous Coated Pipe, Add	4.52	
For Bituminous Coated And 25% Paved, Add	8.16	
For Smooth-Flo, Add	15.68	
33 42 11 00-0488 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	51.31	10.05
For Bituminous Coated Pipe, Add	5.12	
For Bituminous Coated And 25% Paved, Add	9.25	
For Smooth-Flo, Add	17.77	
33 42 11 00-0489 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	66.83	13.91
For Bituminous Coated Pipe, Add	6.51	
For Bituminous Coated And 25% Paved, Add	11.76	
For Smooth-Flo, Add	22.60	
33 42 11 00-0490 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	84.74	17.62
For Bituminous Coated Pipe, Add	8.05	
For Bituminous Coated And 25% Paved, Add	14.54	
For Smooth-Flo, Add	27.94	
33 42 11 00-0491 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	96.28	20.83
For Bituminous Coated Pipe, Add	9.44	
For Bituminous Coated And 25% Paved, Add	17.04	
For Smooth-Flo, Add	32.75	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0492	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	108.68 10.65 19.24 36.98	24.04
33 42 11 00-0493	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	127.92 12.77 23.07 44.33	27.23
33 42 11 00-0494	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	139.80 13.99 25.26 48.55	28.84
33 42 11 00-0495	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	169.20 17.03 30.76 59.11	35.25
33 42 11 00-0496 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping^(33 42 11 00-0463)				
33 42 11 00-0497	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	95.57 10.24 17.11 24.41	17.62
33 42 11 00-0498	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	108.95 12.00 20.04 28.60	20.83
33 42 11 00-0499	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	123.06 13.56 22.65 32.32	24.04
33 42 11 00-0500	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	144.04 16.06 26.83 38.28	27.23
33 42 11 00-0501	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	157.73 17.64 29.46 42.04	28.84
33 42 11 00-0502	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	188.91 21.10 35.25 50.29	35.25
33 42 11 00-0503	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	230.69 22.66 37.85 54.00	51.27
33 42 11 00-0504 3" x 1" Corrugation, Galvanized Corrugated Steel Piping^(33 42 11 00-0462)				
33 42 11 00-0505 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping^(33 42 11 00-0504)				
33 42 11 00-0506	LF	36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	77.37 8.00 18.16 36.15	17.62
33 42 11 00-0507	LF	42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	87.73 9.39 21.32 42.44	20.83
33 42 11 00-0508	LF	48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	98.67 10.53 23.91 47.60	24.04
33 42 11 00-0509	LF	54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	117.11 12.87 29.21 58.15	27.23
33 42 11 00-0510	LF	60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	127.59 14.02 31.82 63.35	28.84
33 42 11 00-0511	LF	66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	159.04 18.00 40.87 81.38	35.25
33 42 11 00-0512	LF	72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	197.91 19.19 43.56 86.74	51.27
33 42 11 00-0513	LF	78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	214.06 20.38 46.27 92.13	56.08

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0514 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	228.03	60.08
For Bituminous Coated Pipe, Add	21.57	
For Bituminous Coated And 25% Paved, Add	48.97	
For Smooth-Flo, Add	97.51	
33 42 11 00-0515 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	242.02	64.08
For Bituminous Coated Pipe, Add	22.77	
For Bituminous Coated And 25% Paved, Add	51.69	
For Smooth-Flo, Add	102.92	
33 42 11 00-0516 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	256.55	68.09
For Bituminous Coated Pipe, Add	23.96	
For Bituminous Coated And 25% Paved, Add	54.38	
For Smooth-Flo, Add	108.28	
33 42 11 00-0517 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	273.35	72.10
For Bituminous Coated Pipe, Add	25.16	
For Bituminous Coated And 25% Paved, Add	57.10	
For Smooth-Flo, Add	113.71	
33 42 11 00-0518 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0504)		
33 42 11 00-0519 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	127.25	27.23
For Bituminous Coated Pipe, Add	14.89	
For Bituminous Coated And 25% Paved, Add	29.19	
For Smooth-Flo, Add	58.98	
33 42 11 00-0520 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	138.81	28.84
For Bituminous Coated Pipe, Add	16.26	
For Bituminous Coated And 25% Paved, Add	31.87	
For Smooth-Flo, Add	64.39	
33 42 11 00-0521 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	171.38	35.25
For Bituminous Coated Pipe, Add	20.47	
For Bituminous Coated And 25% Paved, Add	40.13	
For Smooth-Flo, Add	81.07	
33 42 11 00-0522 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	211.36	51.27
For Bituminous Coated Pipe, Add	21.88	
For Bituminous Coated And 25% Paved, Add	42.88	
For Smooth-Flo, Add	86.64	
33 42 11 00-0523 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	228.58	56.08
For Bituminous Coated Pipe, Add	23.29	
For Bituminous Coated And 25% Paved, Add	45.64	
For Smooth-Flo, Add	92.21	
33 42 11 00-0524 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	243.69	60.08
For Bituminous Coated Pipe, Add	24.71	
For Bituminous Coated And 25% Paved, Add	48.42	
For Smooth-Flo, Add	97.84	
33 42 11 00-0525 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	258.74	64.08
For Bituminous Coated Pipe, Add	26.11	
For Bituminous Coated And 25% Paved, Add	51.18	
For Smooth-Flo, Add	103.41	
33 42 11 00-0526 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	274.37	68.09
For Bituminous Coated Pipe, Add	27.52	
For Bituminous Coated And 25% Paved, Add	53.94	
For Smooth-Flo, Add	108.98	
33 42 11 00-0527 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	292.25	72.10
For Bituminous Coated Pipe, Add	28.94	
For Bituminous Coated And 25% Paved, Add	56.71	
For Smooth-Flo, Add	114.59	
33 42 11 00-0528 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	311.97	80.10
For Bituminous Coated Pipe, Add	30.35	
For Bituminous Coated And 25% Paved, Add	59.49	
For Smooth-Flo, Add	120.19	
33 42 11 00-0529 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	331.24	88.12
For Bituminous Coated Pipe, Add	31.74	
For Bituminous Coated And 25% Paved, Add	62.21	
For Smooth-Flo, Add	125.70	
33 42 11 00-0530 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0504)		
33 42 11 00-0531 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	163.69	28.84
For Bituminous Coated Pipe, Add	21.24	
For Bituminous Coated And 25% Paved, Add	40.45	
For Smooth-Flo, Add	65.94	
33 42 11 00-0532 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	198.94	35.25
For Bituminous Coated Pipe, Add	25.98	
For Bituminous Coated And 25% Paved, Add	49.50	
For Smooth-Flo, Add	80.68	
33 42 11 00-0533 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	241.32	51.27
For Bituminous Coated Pipe, Add	27.87	
For Bituminous Coated And 25% Paved, Add	53.10	
For Smooth-Flo, Add	86.54	
33 42 11 00-0534 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	260.97	56.08
For Bituminous Coated Pipe, Add	29.76	
For Bituminous Coated And 25% Paved, Add	56.70	
For Smooth-Flo, Add	92.42	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0535	LF	84"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	278.49 31.67 60.32 98.32	60.08
33 42 11 00-0536	LF	90"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	295.96 33.56 63.93 104.20	64.08
33 42 11 00-0537	LF	96"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	314.05 35.46 67.54 110.09	68.09
33 42 11 00-0538	LF	102"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	334.35 37.36 71.16 115.99	72.10
33 42 11 00-0539	LF	108"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	356.46 39.25 74.77 121.87	80.10
33 42 11 00-0540	LF	114"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	378.17 41.13 78.35 127.70	88.12
33 42 11 00-0541	LF	120"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	398.99 43.03 81.97 133.61	96.12
33 42 11 00-0542 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0504)					
33 42 11 00-0543	LF	72"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	269.26 33.46 63.57 84.99	51.27
33 42 11 00-0544	LF	78"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	291.20 35.81 68.04 90.96	56.08
33 42 11 00-0545	LF	84"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	311.01 38.17 72.52 96.95	60.08
33 42 11 00-0546	LF	90"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	330.78 40.52 76.99 102.93	64.08
33 42 11 00-0547	LF	96"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	351.16 42.88 81.47 108.91	68.09
33 42 11 00-0548	LF	102"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	373.76 45.24 85.95 114.90	72.10
33 42 11 00-0549	LF	108"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	398.15 47.59 90.42 120.87	80.10
33 42 11 00-0550	LF	114"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	422.14 49.92 94.85 126.80	88.12
33 42 11 00-0551	LF	120"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	445.27 52.29 99.34 132.81	96.12
33 42 11 00-0552	LF	126"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	469.89 54.63 103.79 138.76	104.14
33 42 11 00-0553	LF	132"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	496.54 56.99 108.28 144.75	112.15
33 42 11 00-0554	LF	138"	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	525.63 59.35 112.77 150.75	120.16
33 42 11 00-0555 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0462)					

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0556 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0555)		
33 42 11 00-0557 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	98.97	24.04
For Bituminous Coated Pipe, Add	13.24	
For Bituminous Coated And 25% Paved, Add	30.19	
For Smooth-Flo, Add	47.93	
33 42 11 00-0558 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	117.67	27.23
For Bituminous Coated Pipe, Add	16.22	
For Bituminous Coated And 25% Paved, Add	36.99	
For Smooth-Flo, Add	58.73	
33 42 11 00-0559 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	128.09	28.84
For Bituminous Coated Pipe, Add	17.65	
For Bituminous Coated And 25% Paved, Add	40.23	
For Smooth-Flo, Add	63.87	
33 42 11 00-0560 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	157.87	35.25
For Bituminous Coated Pipe, Add	22.21	
For Bituminous Coated And 25% Paved, Add	50.64	
For Smooth-Flo, Add	80.41	
33 42 11 00-0561 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	196.61	51.27
For Bituminous Coated Pipe, Add	23.66	
For Bituminous Coated And 25% Paved, Add	53.95	
For Smooth-Flo, Add	85.66	
33 42 11 00-0562 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	212.58	56.08
For Bituminous Coated Pipe, Add	25.11	
For Bituminous Coated And 25% Paved, Add	57.25	
For Smooth-Flo, Add	90.89	
33 42 11 00-0563 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	226.34	60.08
For Bituminous Coated Pipe, Add	26.55	
For Bituminous Coated And 25% Paved, Add	60.52	
For Smooth-Flo, Add	96.09	
33 42 11 00-0564 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	240.08	64.08
For Bituminous Coated Pipe, Add	27.98	
For Bituminous Coated And 25% Paved, Add	63.79	
For Smooth-Flo, Add	101.28	
33 42 11 00-0565 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	254.50	68.09
For Bituminous Coated Pipe, Add	29.43	
For Bituminous Coated And 25% Paved, Add	67.11	
For Smooth-Flo, Add	106.55	
33 42 11 00-0566 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	271.26	72.10
For Bituminous Coated Pipe, Add	30.92	
For Bituminous Coated And 25% Paved, Add	70.50	
For Smooth-Flo, Add	111.94	
33 42 11 00-0567 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0555)		
33 42 11 00-0568 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	130.35	27.23
For Bituminous Coated Pipe, Add	15.51	
For Bituminous Coated And 25% Paved, Add	36.46	
For Smooth-Flo, Add	66.01	
33 42 11 00-0569 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	142.18	28.84
For Bituminous Coated Pipe, Add	16.93	
For Bituminous Coated And 25% Paved, Add	39.79	
For Smooth-Flo, Add	72.05	
33 42 11 00-0570 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	173.25	35.25
For Bituminous Coated Pipe, Add	20.85	
For Bituminous Coated And 25% Paved, Add	48.99	
For Smooth-Flo, Add	88.70	
33 42 11 00-0571 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	213.22	51.27
For Bituminous Coated Pipe, Add	22.25	
For Bituminous Coated And 25% Paved, Add	52.29	
For Smooth-Flo, Add	94.68	
33 42 11 00-0572 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	230.69	56.08
For Bituminous Coated Pipe, Add	23.71	
For Bituminous Coated And 25% Paved, Add	55.71	
For Smooth-Flo, Add	100.88	
33 42 11 00-0573 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	245.87	60.08
For Bituminous Coated Pipe, Add	25.14	
For Bituminous Coated And 25% Paved, Add	59.08	
For Smooth-Flo, Add	106.98	
33 42 11 00-0574 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	260.31	64.08
For Bituminous Coated Pipe, Add	26.43	
For Bituminous Coated And 25% Paved, Add	62.11	
For Smooth-Flo, Add	112.45	
33 42 11 00-0575 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	276.78	68.09
For Bituminous Coated Pipe, Add	28.00	
For Bituminous Coated And 25% Paved, Add	65.80	
For Smooth-Flo, Add	119.15	
33 42 11 00-0576 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	294.73	72.10
For Bituminous Coated Pipe, Add	29.43	
For Bituminous Coated And 25% Paved, Add	69.17	
For Smooth-Flo, Add	125.23	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0577	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	314.45	80.10
		For Bituminous Coated Pipe, Add	30.85	
		For Bituminous Coated And 25% Paved, Add	72.49	
		For Smooth-Flo, Add	131.26	
33 42 11 00-0578	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	334.03	88.12
		For Bituminous Coated Pipe, Add	32.30	
		For Bituminous Coated And 25% Paved, Add	75.91	
		For Smooth-Flo, Add	137.44	
33 42 11 00-0579 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0555)				
33 42 11 00-0580	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	168.57	28.84
		For Bituminous Coated Pipe, Add	22.21	
		For Bituminous Coated And 25% Paved, Add	42.20	
		For Smooth-Flo, Add	76.19	
33 42 11 00-0581	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	202.31	35.25
		For Bituminous Coated Pipe, Add	26.66	
		For Bituminous Coated And 25% Paved, Add	50.65	
		For Smooth-Flo, Add	91.44	
33 42 11 00-0582	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	245.05	51.27
		For Bituminous Coated Pipe, Add	28.62	
		For Bituminous Coated And 25% Paved, Add	54.37	
		For Smooth-Flo, Add	98.16	
33 42 11 00-0583	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	264.97	56.08
		For Bituminous Coated Pipe, Add	30.56	
		For Bituminous Coated And 25% Paved, Add	58.07	
		For Smooth-Flo, Add	104.83	
33 42 11 00-0584	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	282.62	60.08
		For Bituminous Coated Pipe, Add	32.49	
		For Bituminous Coated And 25% Paved, Add	61.73	
		For Smooth-Flo, Add	111.45	
33 42 11 00-0585	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	300.41	64.08
		For Bituminous Coated Pipe, Add	34.45	
		For Bituminous Coated And 25% Paved, Add	65.45	
		For Smooth-Flo, Add	118.16	
33 42 11 00-0586	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	318.72	68.09
		For Bituminous Coated Pipe, Add	36.39	
		For Bituminous Coated And 25% Paved, Add	69.14	
		For Smooth-Flo, Add	124.82	
33 42 11 00-0587	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	339.21	72.10
		For Bituminous Coated Pipe, Add	38.33	
		For Bituminous Coated And 25% Paved, Add	72.82	
		For Smooth-Flo, Add	131.47	
33 42 11 00-0588	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	361.63	80.10
		For Bituminous Coated Pipe, Add	40.28	
		For Bituminous Coated And 25% Paved, Add	76.54	
		For Smooth-Flo, Add	138.17	
33 42 11 00-0589	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	383.66	88.12
		For Bituminous Coated Pipe, Add	42.23	
		For Bituminous Coated And 25% Paved, Add	80.23	
		For Smooth-Flo, Add	144.84	
33 42 11 00-0590	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	404.68	96.12
		For Bituminous Coated Pipe, Add	44.17	
		For Bituminous Coated And 25% Paved, Add	83.92	
		For Smooth-Flo, Add	151.50	
33 42 11 00-0591 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0555)				
33 42 11 00-0592	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	275.53	51.27
		For Bituminous Coated Pipe, Add	34.71	
		For Bituminous Coated And 25% Paved, Add	65.96	
		For Smooth-Flo, Add	103.62	
33 42 11 00-0593	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	298.28	56.08
		For Bituminous Coated Pipe, Add	37.23	
		For Bituminous Coated And 25% Paved, Add	70.73	
		For Smooth-Flo, Add	111.12	
33 42 11 00-0594	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	318.59	60.08
		For Bituminous Coated Pipe, Add	39.69	
		For Bituminous Coated And 25% Paved, Add	75.40	
		For Smooth-Flo, Add	118.46	
33 42 11 00-0595	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	338.78	64.08
		For Bituminous Coated Pipe, Add	42.12	
		For Bituminous Coated And 25% Paved, Add	80.03	
		For Smooth-Flo, Add	125.73	
33 42 11 00-0596	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	359.70	68.09
		For Bituminous Coated Pipe, Add	44.59	
		For Bituminous Coated And 25% Paved, Add	84.71	
		For Smooth-Flo, Add	133.09	
33 42 11 00-0597	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	382.70	72.10
		For Bituminous Coated Pipe, Add	47.03	
		For Bituminous Coated And 25% Paved, Add	89.35	
		For Smooth-Flo, Add	140.37	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0598 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	407.64	80.10
For Bituminous Coated Pipe, Add	49.49	
For Bituminous Coated And 25% Paved, Add	94.02	
For Smooth-Flo, Add	147.72	
33 42 11 00-0599 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	432.23	88.12
For Bituminous Coated Pipe, Add	51.94	
For Bituminous Coated And 25% Paved, Add	98.69	
For Smooth-Flo, Add	155.04	
33 42 11 00-0600 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	455.74	96.12
For Bituminous Coated Pipe, Add	54.38	
For Bituminous Coated And 25% Paved, Add	103.32	
For Smooth-Flo, Add	162.32	
33 42 11 00-0601 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	484.77	104.14
For Bituminous Coated Pipe, Add	57.60	
For Bituminous Coated And 25% Paved, Add	109.45	
For Smooth-Flo, Add	171.95	
33 42 11 00-0602 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	512.90	112.15
For Bituminous Coated Pipe, Add	60.26	
For Bituminous Coated And 25% Paved, Add	114.49	
For Smooth-Flo, Add	179.88	
33 42 11 00-0603 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	543.98	120.16
For Bituminous Coated Pipe, Add	63.02	
For Bituminous Coated And 25% Paved, Add	119.74	
For Smooth-Flo, Add	188.12	
33 42 11 00-0604 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0462)		
33 42 11 00-0605 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0604)		
33 42 11 00-0606 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	35.60	9.28
For Bituminous Coated Pipe, Add	4.08	
33 42 11 00-0607 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	40.38	10.05
For Bituminous Coated Pipe, Add	4.86	
33 42 11 00-0608 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	44.88	10.82
For Bituminous Coated Pipe, Add	5.52	
33 42 11 00-0609 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	59.05	13.91
For Bituminous Coated Pipe, Add	7.11	
33 42 11 00-0610 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	75.64	17.62
For Bituminous Coated Pipe, Add	8.91	
33 42 11 00-0611 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	85.89	20.83
For Bituminous Coated Pipe, Add	10.51	
33 42 11 00-0612 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	96.79	24.04
For Bituminous Coated Pipe, Add	11.83	
33 42 11 00-0613 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	114.97	27.23
For Bituminous Coated Pipe, Add	14.49	
33 42 11 00-0614 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	125.41	28.84
For Bituminous Coated Pipe, Add	15.82	
33 42 11 00-0615 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0604)		
33 42 11 00-0616 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	38.52	9.28
For Bituminous Coated Pipe, Add	4.72	
33 42 11 00-0617 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	43.80	10.05
For Bituminous Coated Pipe, Add	5.61	
33 42 11 00-0618 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	48.77	10.82
For Bituminous Coated Pipe, Add	6.37	
33 42 11 00-0619 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	63.89	13.91
For Bituminous Coated Pipe, Add	8.17	
33 42 11 00-0620 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	81.46	17.62
For Bituminous Coated Pipe, Add	10.18	
33 42 11 00-0621 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	92.70	20.83
For Bituminous Coated Pipe, Add	11.99	
33 42 11 00-0622 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	104.56	24.04
For Bituminous Coated Pipe, Add	13.53	
33 42 11 00-0623 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	123.72	27.23
For Bituminous Coated Pipe, Add	16.39	
33 42 11 00-0624 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	135.15	28.84
For Bituminous Coated Pipe, Add	17.93	
33 42 11 00-0625 LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	165.47	35.25
For Bituminous Coated Pipe, Add	22.28	
33 42 11 00-0626 LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	205.02	51.27
For Bituminous Coated Pipe, Add	23.81	
33 42 11 00-0627 LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	221.93	56.08
For Bituminous Coated Pipe, Add	25.36	
33 42 11 00-0628 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0604)		
33 42 11 00-0629 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	73.69	13.91
For Bituminous Coated Pipe, Add	8.54	
33 42 11 00-0630 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	93.17	17.62
For Bituminous Coated Pipe, Add	10.54	
33 42 11 00-0631 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	106.41	20.83
For Bituminous Coated Pipe, Add	12.40	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0632	LF	48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	120.21 14.02	24.04
33 42 11 00-0633	LF	54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	141.34 16.74	27.23
33 42 11 00-0634	LF	60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	154.75 18.38	28.84
33 42 11 00-0635	LF	66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	186.98 22.29	35.25
33 42 11 00-0636	LF	72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	228.46 23.91	51.27
33 42 11 00-0637	LF	78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	247.30 25.54	56.08
33 42 11 00-0638	LF	84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	263.92 27.17	60.08
33 42 11 00-0639	LF	90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	280.52 28.79	64.08
33 42 11 00-0640	LF	96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	297.71 30.42	68.09
33 42 11 00-0641	LF	102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	316.15 31.86	72.10
33 42 11 00-0642		1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0462)		
33 42 11 00-0643		1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0642)		
33 42 11 00-0644	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	13.53 1.04	4.64
33 42 11 00-0645	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.40 1.25	4.64
33 42 11 00-0646	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	16.87 1.38	5.80
33 42 11 00-0647	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.98 1.65	5.80
33 42 11 00-0648	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	21.33 1.73	6.96
33 42 11 00-0649	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	22.74 2.08	6.96
33 42 11 00-0650		Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0642)		
33 42 11 00-0651	LF	6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	13.66 1.03	4.64
33 42 11 00-0652	LF	6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.50 1.23	4.64
33 42 11 00-0653	LF	8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	16.99 1.35	5.80
33 42 11 00-0654	LF	8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	18.17 1.63	5.80
33 42 11 00-0655	LF	10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	21.54 1.71	6.96
33 42 11 00-0656	LF	10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	22.98 2.05	6.96
33 42 11 00-0657		1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0642)		
33 42 11 00-0658	EA	6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	6.44 1.45	
33 42 11 00-0659	EA	8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	8.52 1.92	
33 42 11 00-0660	EA	10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	10.45 2.35	
33 42 11 00-0661	EA	6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.22 3.20	
33 42 11 00-0662	EA	6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	6.38 0.73	
33 42 11 00-0663	EA	8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	7.88 1.10	
33 42 11 00-0664		2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0462)		
33 42 11 00-0665		16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0664)		
33 42 11 00-0666	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	38.59	8.12
33 42 11 00-0667	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	44.83	8.50
33 42 11 00-0668	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	51.27	9.28
33 42 11 00-0669	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	59.18	10.05
33 42 11 00-0670	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	65.86	10.82
33 42 11 00-0671	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	86.43	13.91
33 42 11 00-0672	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	110.46	17.62
33 42 11 00-0673	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	127.23	20.83
33 42 11 00-0674	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	142.86	24.04

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0675 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42				
11 00-0664)				
33 42 11 00-0676	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	43.29	8.12
33 42 11 00-0677	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	50.66	8.50
33 42 11 00-0678	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	58.25	9.28
33 42 11 00-0679	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	67.26	10.05
33 42 11 00-0680	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	75.24	10.82
33 42 11 00-0681	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	97.95	13.91
33 42 11 00-0682	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	124.37	17.62
33 42 11 00-0683	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	143.19	20.83
33 42 11 00-0684	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	161.07	24.04
33 42 11 00-0685	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	194.30	27.23
33 42 11 00-0686 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42				
11 00-0664)				
33 42 11 00-0687	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	72.79	9.28
33 42 11 00-0688	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	84.24	10.05
33 42 11 00-0689	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	94.55	10.82
33 42 11 00-0690	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	122.07	13.91
33 42 11 00-0691	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	147.40	17.62
33 42 11 00-0692	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	176.93	20.83
33 42 11 00-0693	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	199.58	24.04
33 42 11 00-0694	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	238.24	27.23
33 42 11 00-0695	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	260.29	28.84
33 42 11 00-0696	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	318.44	35.25
33 42 11 00-0697 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42				
11 00-0664)				
33 42 11 00-0698	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	179.75	17.62
33 42 11 00-0699	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	207.67	20.83
33 42 11 00-0700	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	234.50	24.04
33 42 11 00-0701	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	277.36	27.23
33 42 11 00-0702	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	303.83	28.84
33 42 11 00-0703	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	366.26	35.25
33 42 11 00-0704	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	420.64	51.27
33 42 11 00-0705 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0462)				
33 42 11 00-0706 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0705)				
33 42 11 00-0707	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	137.16	17.62
33 42 11 00-0708	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	158.02	20.83
33 42 11 00-0709	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	177.38	24.04
33 42 11 00-0710	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	213.94	27.23
33 42 11 00-0711	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	232.95	28.84
33 42 11 00-0712	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	295.55	35.25
33 42 11 00-0713	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	343.23	51.27
33 42 11 00-0714	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	368.16	56.08
33 42 11 00-0715	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	390.96	60.08
33 42 11 00-0716	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	413.78	64.08
33 42 11 00-0717	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	437.11	68.09
33 42 11 00-0718	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	462.78	72.10
33 42 11 00-0719 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0705)				
33 42 11 00-0720	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	239.08	27.23
33 42 11 00-0721	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	260.74	28.84
33 42 11 00-0722	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	326.16	35.25
33 42 11 00-0723	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	376.53	51.27
33 42 11 00-0724	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	404.18	56.08
33 42 11 00-0725	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	429.80	60.08
33 42 11 00-0726	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	455.26	64.08
33 42 11 00-0727	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	481.30	68.09
33 42 11 00-0728	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	509.70	72.10
33 42 11 00-0729	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	539.88	80.10
33 42 11 00-0730	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	569.42	88.12
33 42 11 00-0731 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0705)				
33 42 11 00-0732	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	323.98	28.84
33 42 11 00-0733	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	396.51	35.25
33 42 11 00-0734	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	452.98	51.27
33 42 11 00-0735	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	486.76	56.08
33 42 11 00-0736	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	518.47	60.08
33 42 11 00-0737	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	550.07	64.08
33 42 11 00-0738	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	582.29	68.09
33 42 11 00-0739	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	616.79	72.10
33 42 11 00-0740	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	653.02	80.10



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0741	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	688.77	88.12
33 42 11 00-0742	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	723.79	96.12
33 42 11 00-0743 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0705)				
33 42 11 00-0744	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	522.64	51.27
33 42 11 00-0745	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	562.09	56.08
33 42 11 00-0746	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	599.53	60.08
33 42 11 00-0747	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	636.83	64.08
33 42 11 00-0748	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	674.78	68.09
33 42 11 00-0749	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	714.99	72.10
33 42 11 00-0750	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	756.94	80.10
33 42 11 00-0751	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	798.38	88.12
33 42 11 00-0752	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	839.12	96.12
33 42 11 00-0753	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	881.24	104.14
33 42 11 00-0754	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	925.50	112.15
33 42 11 00-0755	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	972.22	120.16
33 42 11 00-0756 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0462)				
33 42 11 00-0757 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0756)				
33 42 11 00-0758	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	171.96	24.04
33 42 11 00-0759	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	207.97	27.23
33 42 11 00-0760	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	226.11	28.84
33 42 11 00-0761	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	282.84	35.25
33 42 11 00-0762	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	329.49	51.27
33 42 11 00-0763	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	353.33	56.08
33 42 11 00-0764	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	374.91	60.08
33 42 11 00-0765	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	396.43	64.08
33 42 11 00-0766	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	418.75	68.09
33 42 11 00-0767	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	443.66	72.10
33 42 11 00-0768 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0756)				
33 42 11 00-0769	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	237.84	27.23
33 42 11 00-0770	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	259.38	28.84
33 42 11 00-0771	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	319.12	35.25
33 42 11 00-0772	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	368.69	51.27
33 42 11 00-0773	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	396.08	56.08
33 42 11 00-0774	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	420.98	60.08
33 42 11 00-0775	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	444.17	64.08
33 42 11 00-0776	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	471.33	68.09
33 42 11 00-0777	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	499.02	72.10
33 42 11 00-0778	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	528.35	80.10
33 42 11 00-0779	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	557.81	88.12
33 42 11 00-0780 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0756)				
33 42 11 00-0781	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	326.05	28.84
33 42 11 00-0782	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	392.89	35.25
33 42 11 00-0783	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	449.43	51.27
33 42 11 00-0784	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	482.94	56.08
33 42 11 00-0785	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	514.10	60.08
33 42 11 00-0786	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	545.61	64.08
33 42 11 00-0787	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	577.54	68.09
33 42 11 00-0788	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	611.57	72.10
33 42 11 00-0789	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	647.71	80.10
33 42 11 00-0790	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	683.35	88.12
33 42 11 00-0791	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	717.96	96.12
33 42 11 00-0792 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0756)				
33 42 11 00-0793	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	522.61	51.27
33 42 11 00-0794	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	562.93	56.08
33 42 11 00-0795	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	600.49	60.08
33 42 11 00-0796	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	637.77	64.08
33 42 11 00-0797	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	675.89	68.09
33 42 11 00-0798	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	716.04	72.10
33 42 11 00-0799	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	758.17	80.10
33 42 11 00-0800	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	799.95	88.12
33 42 11 00-0801	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	840.60	96.12
33 42 11 00-0802	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	892.19	104.14
33 42 11 00-0803	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	938.96	112.15
33 42 11 00-0804	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	989.36	120.16

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0805	Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0461)				
33 42 11 00-0806	2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0805)				
33 42 11 00-0807	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0806)				
33 42 11 00-0808	LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	29.37		8.50	
	For Bituminous Coated Pipe, Add	2.97			
	For Bituminous Coated And 25% Paved, Add	7.17			
	For Smooth-Flo, Add	11.83			
33 42 11 00-0809	LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	32.32		9.28	
	For Bituminous Coated Pipe, Add	3.54			
	For Bituminous Coated And 25% Paved, Add	8.57			
	For Smooth-Flo, Add	14.13			
33 42 11 00-0810	LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	36.65		10.05	
	For Bituminous Coated Pipe, Add	4.27			
	For Bituminous Coated And 25% Paved, Add	10.31			
	For Smooth-Flo, Add	17.01			
33 42 11 00-0811	LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	40.92		10.82	
	For Bituminous Coated Pipe, Add	4.91			
	For Bituminous Coated And 25% Paved, Add	11.88			
	For Smooth-Flo, Add	19.59			
33 42 11 00-0812	LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	53.59		13.91	
	For Bituminous Coated Pipe, Add	6.24			
	For Bituminous Coated And 25% Paved, Add	15.09			
	For Smooth-Flo, Add	24.88			
33 42 11 00-0813	LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	69.70		17.62	
	For Bituminous Coated Pipe, Add	8.05			
	For Bituminous Coated And 25% Paved, Add	19.46			
	For Smooth-Flo, Add	32.09			
33 42 11 00-0814	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0806)				
33 42 11 00-0815	LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	31.78		8.50	
	For Bituminous Coated Pipe, Add	3.08			
	For Bituminous Coated And 25% Paved, Add	7.20			
	For Smooth-Flo, Add	11.81			
33 42 11 00-0816	LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	35.26		9.28	
	For Bituminous Coated Pipe, Add	3.69			
	For Bituminous Coated And 25% Paved, Add	8.64			
	For Smooth-Flo, Add	14.17			
33 42 11 00-0817	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	39.93		10.05	
	For Bituminous Coated Pipe, Add	4.39			
	For Bituminous Coated And 25% Paved, Add	10.27			
	For Smooth-Flo, Add	16.84			
33 42 11 00-0818	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	44.72		10.82	
	For Bituminous Coated Pipe, Add	5.06			
	For Bituminous Coated And 25% Paved, Add	11.84			
	For Smooth-Flo, Add	19.41			
33 42 11 00-0819	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	58.33		13.91	
	For Bituminous Coated Pipe, Add	6.41			
	For Bituminous Coated And 25% Paved, Add	14.99			
	For Smooth-Flo, Add	24.59			
33 42 11 00-0820	LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	75.34		17.62	
	For Bituminous Coated Pipe, Add	8.16			
	For Bituminous Coated And 25% Paved, Add	19.09			
	For Smooth-Flo, Add	31.32			
33 42 11 00-0821	LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	86.00		20.83	
	For Bituminous Coated Pipe, Add	9.72			
	For Bituminous Coated And 25% Paved, Add	22.75			
	For Smooth-Flo, Add	37.31			
33 42 11 00-0822	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0806)				
33 42 11 00-0823	LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	44.96		9.61	
	For Bituminous Coated Pipe, Add	3.99			
	For Bituminous Coated And 25% Paved, Add	8.89			
	For Smooth-Flo, Add	13.66			
33 42 11 00-0824	LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	50.99		10.41	
	For Bituminous Coated Pipe, Add	4.74			
	For Bituminous Coated And 25% Paved, Add	10.54			
	For Smooth-Flo, Add	16.21			
33 42 11 00-0825	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	57.03		11.21	
	For Bituminous Coated Pipe, Add	5.43			
	For Bituminous Coated And 25% Paved, Add	12.09			
	For Smooth-Flo, Add	18.59			
33 42 11 00-0826	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	74.04		14.42	
	For Bituminous Coated Pipe, Add	6.84			
	For Bituminous Coated And 25% Paved, Add	15.22			
	For Smooth-Flo, Add	23.41			



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0827	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	86.85	17.62	
		For Bituminous Coated Pipe, Add	8.56		
		For Bituminous Coated And 25% Paved, Add	19.05		
		For Smooth-Flo, Add	29.29		
33 42 11 00-0828	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	99.29	20.83	
		For Bituminous Coated Pipe, Add	10.12		
		For Bituminous Coated And 25% Paved, Add	22.53		
		For Smooth-Flo, Add	34.64		
33 42 11 00-0829	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	115.40	24.04	
		For Bituminous Coated Pipe, Add	12.00		
		For Bituminous Coated And 25% Paved, Add	26.72		
		For Smooth-Flo, Add	41.08		
33 42 11 00-0830	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	129.40	27.23	
		For Bituminous Coated Pipe, Add	13.26		
		For Bituminous Coated And 25% Paved, Add	29.50		
		For Smooth-Flo, Add	45.36		
33 42 11 00-0831 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0806)			
33 42 11 00-0832	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	97.69	17.62	
		For Bituminous Coated Pipe, Add	10.31		
		For Bituminous Coated And 25% Paved, Add	21.71		
		For Smooth-Flo, Add	27.38		
33 42 11 00-0833	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	111.92	20.83	
		For Bituminous Coated Pipe, Add	12.16		
		For Bituminous Coated And 25% Paved, Add	25.61		
		For Smooth-Flo, Add	32.30		
33 42 11 00-0834	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	129.71	24.04	
		For Bituminous Coated Pipe, Add	14.31		
		For Bituminous Coated And 25% Paved, Add	30.13		
		For Smooth-Flo, Add	38.00		
33 42 11 00-0835	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	145.59	27.23	
		For Bituminous Coated Pipe, Add	15.87		
		For Bituminous Coated And 25% Paved, Add	33.41		
		For Smooth-Flo, Add	42.14		
33 42 11 00-0836	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	159.40	28.84	
		For Bituminous Coated Pipe, Add	17.42		
		For Bituminous Coated And 25% Paved, Add	36.68		
		For Smooth-Flo, Add	46.26		
33 42 11 00-0837 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0805)			
33 42 11 00-0838 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0837)			
33 42 11 00-0839	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	129.25	27.23	
		For Bituminous Coated Pipe, Add	15.29		
		For Bituminous Coated And 25% Paved, Add	46.49		
		For Smooth-Flo, Add	52.00		
33 42 11 00-0840	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	141.19	28.84	
		For Bituminous Coated Pipe, Add	16.74		
		For Bituminous Coated And 25% Paved, Add	50.88		
		For Smooth-Flo, Add	56.90		
33 42 11 00-0841	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	174.12	35.25	
		For Bituminous Coated Pipe, Add	21.02		
		For Bituminous Coated And 25% Paved, Add	63.90		
		For Smooth-Flo, Add	71.47		
33 42 11 00-0842	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	214.64	51.27	
		For Bituminous Coated Pipe, Add	22.54		
		For Bituminous Coated And 25% Paved, Add	68.51		
		For Smooth-Flo, Add	76.62		
33 42 11 00-0843	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	232.78	56.08	
		For Bituminous Coated Pipe, Add	24.13		
		For Bituminous Coated And 25% Paved, Add	73.34		
		For Smooth-Flo, Add	82.03		
33 42 11 00-0844	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	248.80	60.08	
		For Bituminous Coated Pipe, Add	25.73		
		For Bituminous Coated And 25% Paved, Add	78.21		
		For Smooth-Flo, Add	87.48		
33 42 11 00-0845	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	264.76	64.08	
		For Bituminous Coated Pipe, Add	27.32		
		For Bituminous Coated And 25% Paved, Add	83.05		
		For Smooth-Flo, Add	92.88		
33 42 11 00-0846	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	281.30	68.09	
		For Bituminous Coated Pipe, Add	28.91		
		For Bituminous Coated And 25% Paved, Add	87.87		
		For Smooth-Flo, Add	98.28		
33 42 11 00-0847 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch					
		(33 42 11 00-0837)			
33 42 11 00-0848	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	166.10	28.84	
		For Bituminous Coated Pipe, Add	21.72		
		For Bituminous Coated And 25% Paved, Add	56.90		
		For Smooth-Flo, Add	67.33		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0849 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	201.75 26.55 69.55 82.29	35.25
33 42 11 00-0850 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	244.71 28.55 74.80 88.51	51.27
33 42 11 00-0851 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	265.29 30.63 80.25 94.95	56.08
33 42 11 00-0852 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	283.73 32.71 85.71 101.41	60.08
33 42 11 00-0853 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	302.14 34.79 91.16 107.86	64.08
33 42 11 00-0854 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	321.10 36.87 96.59 114.28	68.09
33 42 11 00-0855 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	342.38 38.96 102.08 120.78	72.10
33 42 11 00-0856 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	365.43 41.04 107.54 127.24	80.10
33 42 11 00-0857 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	389.19 43.33 113.53 134.33	88.12
33 42 11 00-0858 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0837)		
33 42 11 00-0859 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	272.65 34.14 81.25 88.25	51.27
33 42 11 00-0860 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	295.54 36.68 87.29 94.81	56.08
33 42 11 00-0861 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	316.27 39.22 93.35 101.39	60.08
33 42 11 00-0862 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	336.94 41.75 99.37 107.93	64.08
33 42 11 00-0863 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	358.21 44.29 105.41 114.48	68.09
33 42 11 00-0864 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	381.76 46.84 111.47 121.08	72.10
33 42 11 00-0865 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	407.10 49.38 117.52 127.64	80.10
33 42 11 00-0866 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	432.97 52.09 123.97 134.65	88.12
33 42 11 00-0867 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	460.55 55.34 131.71 143.06	96.12
33 42 11 00-0868 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0805)		
33 42 11 00-0869 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0868)		



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0870	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	247.45 29.10 71.00 90.35	51.27
33 42 11 00-0871	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	267.76 31.12 75.94 96.63	56.08
33 42 11 00-0872	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	285.77 33.12 80.82 102.84	60.08
33 42 11 00-0873	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	303.78 35.12 85.70 109.05	64.08
33 42 11 00-0874	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	322.45 37.14 90.61 115.31	68.09
33 42 11 00-0875	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	343.50 39.19 95.61 121.67	72.10
33 42 11 00-0876	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	366.32 41.22 100.58 127.99	80.10
33 42 11 00-0877	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	391.41 43.78 106.81 135.92	88.12
33 42 11 00-0878		10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0868)		
33 42 11 00-0879	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	278.38 35.28 79.74 86.62	51.27
33 42 11 00-0880	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	301.16 37.80 85.43 92.80	56.08
33 42 11 00-0881	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	321.69 40.31 91.09 98.95	60.08
33 42 11 00-0882	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	342.29 42.82 96.78 105.13	64.08
33 42 11 00-0883	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	363.05 45.26 102.28 111.10	68.09
33 42 11 00-0884	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	386.95 47.88 108.20 117.54	72.10
33 42 11 00-0885	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	412.33 50.42 113.96 123.79	80.10
33 42 11 00-0886	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	439.96 53.49 120.88 131.31	88.12
33 42 11 00-0887	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	465.72 56.38 127.41 138.40	96.12
33 42 11 00-0888		2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0805)		
33 42 11 00-0889		16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0889)		
33 42 11 00-0890	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	44.87	8.50
33 42 11 00-0891	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	50.84	9.28
33 42 11 00-0892	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	59.00	10.05
33 42 11 00-0893	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	66.72	10.82
33 42 11 00-0894	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	86.45	13.91
33 42 11 00-0895	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	112.38	17.62

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0896	14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch			
	(33 42 11 00-0888)			
33 42 11 00-0897	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	50.40	8.50
33 42 11 00-0898	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	57.60	9.28
33 42 11 00-0899	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	66.54	10.05
33 42 11 00-0900	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	75.49	10.82
33 42 11 00-0901	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	97.35	13.91
33 42 11 00-0902	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	125.35	17.62
33 42 11 00-0903	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	145.70	20.83
33 42 11 00-0904	12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch			
	(33 42 11 00-0888)			
33 42 11 00-0905	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	74.17	9.28
33 42 11 00-0906	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	86.17	10.05
33 42 11 00-0907	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	97.71	10.82
33 42 11 00-0908	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	125.08	13.91
33 42 11 00-0909	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	158.85	17.62
33 42 11 00-0910	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	184.71	20.83
33 42 11 00-0911	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	217.39	24.04
33 42 11 00-0912	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	241.73	27.23
33 42 11 00-0913	10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch			
	(33 42 11 00-0888)			
33 42 11 00-0914	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	185.12	17.62
33 42 11 00-0915	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	215.37	20.83
33 42 11 00-0916	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	252.15	24.04
33 42 11 00-0917	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	281.03	27.23
33 42 11 00-0918	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	307.79	28.84
33 42 11 00-0919	3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0805)			
33 42 11 00-0920	14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0919)			
33 42 11 00-0921	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	244.02	27.23
33 42 11 00-0922	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	266.55	28.84
33 42 11 00-0923	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	332.90	35.25
33 42 11 00-0924	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	384.62	51.27
33 42 11 00-0925	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	414.57	56.08
33 42 11 00-0926	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	442.41	60.08
33 42 11 00-0927	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	470.15	64.08
33 42 11 00-0928	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	498.52	68.09
33 42 11 00-0929	12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0919)			
33 42 11 00-0930	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	329.91	28.84
33 42 11 00-0931	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	403.43	35.25
33 42 11 00-0932	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	461.38	51.27
33 42 11 00-0933	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	497.45	56.08
33 42 11 00-0934	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	531.44	60.08
33 42 11 00-0935	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	565.40	64.08
33 42 11 00-0936	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	599.86	68.09
33 42 11 00-0937	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	636.73	72.10
33 42 11 00-0938	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	675.32	80.10
33 42 11 00-0939	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	716.17	88.12
33 42 11 00-0940	10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0919)			
33 42 11 00-0941	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	531.02	51.27
33 42 11 00-0942	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	572.84	56.08
33 42 11 00-0943	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	612.59	60.08
33 42 11 00-0944	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	652.14	64.08
33 42 11 00-0945	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	692.34	68.09
33 42 11 00-0946	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	734.91	72.10
33 42 11 00-0947	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	779.23	80.10
33 42 11 00-0948	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	825.31	88.12
33 42 11 00-0949	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch.....	877.17	96.12
33 42 11 00-0950	125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0805)			
33 42 11 00-0951	12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0950)			
33 42 11 00-0952	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	455.12	51.27
33 42 11 00-0953	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	489.62	56.08
33 42 11 00-0954	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	521.66	60.08
33 42 11 00-0955	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	553.66	64.08
33 42 11 00-0956	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	586.44	68.09



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0957	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	621.86	72.10
33 42 11 00-0958	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	658.93	80.10
33 42 11 00-0959	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	701.90	88.12
33 42 11 00-0960 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0950)				
33 42 11 00-0961	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	529.40	51.27
33 42 11 00-0962	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	569.79	56.08
33 42 11 00-0963	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	607.86	60.08
33 42 11 00-0964	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	646.09	64.08
33 42 11 00-0965	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	683.93	68.09
33 42 11 00-0966	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	726.16	72.10
33 42 11 00-0967	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	769.42	80.10
33 42 11 00-0968	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	818.56	88.12
33 42 11 00-0969	LF	142" x 91" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	864.46	96.12
33 42 11 00-0970 Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0461)				
33 42 11 00-0971 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0970)				
33 42 11 00-0972 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0971)				
33 42 11 00-0973	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	27.78	8.12
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	4.41	
33 42 11 00-0974	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	31.22	8.50
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	5.56	
33 42 11 00-0975	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	34.77	9.28
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	6.74	
33 42 11 00-0976	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	39.46	10.05
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	8.06	
33 42 11 00-0977	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	43.64	10.82
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	9.07	
33 42 11 00-0978	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	57.66	13.91
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	11.77	
33 42 11 00-0979	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	74.13	17.62
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	14.85	
33 42 11 00-0980	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	84.25	20.83
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	17.56	
33 42 11 00-0981	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	94.72	24.04
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	19.68	
33 42 11 00-0982 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0971)				
33 42 11 00-0983	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	30.17	8.12
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	4.19	
33 42 11 00-0984	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	34.16	8.50
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	5.26	
33 42 11 00-0985	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	38.27	9.28
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	6.36	
33 42 11 00-0986	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	43.53	10.05
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	7.56	
33 42 11 00-0987	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	48.36	10.82
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	8.56	
33 42 11 00-0988	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	63.44	13.91
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	11.00	
33 42 11 00-0989	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	81.12	17.62
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	13.78	
33 42 11 00-0990	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	92.30	20.83
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	16.23	
33 42 11 00-0991	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	103.89	24.04
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	18.23	
33 42 11 00-0992	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	123.94	27.23
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	22.42	
33 42 11 00-0993 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0971)				
33 42 11 00-0994	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	45.65	9.28
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	5.93	
33 42 11 00-0995	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	52.13	10.05
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	7.01	
33 42 11 00-0996	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	58.14	10.82
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	7.94	
33 42 11 00-0997	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	75.64	13.91
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	10.13	
33 42 11 00-0998	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	95.84	17.62
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	12.57	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0999	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	109.36 14.74	20.83
33 42 11 00-1000	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	123.35 16.63	24.04
33 42 11 00-1001	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	146.17 20.08	27.23
33 42 11 00-1002	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	159.62 21.95	28.84
33 42 11 00-1003	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	194.60 27.00	35.25
33 42 11 00-1004 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0971)				
33 42 11 00-1005	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	109.08 13.77	17.62
33 42 11 00-1006	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	124.84 16.14	20.83
33 42 11 00-1007	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.93 18.22	24.04
33 42 11 00-1008	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	165.88 21.72	27.23
33 42 11 00-1009	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	181.56 23.82	28.84
33 42 11 00-1010	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	218.69 28.74	35.25
33 42 11 00-1011	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	262.42 30.81	51.27
33 42 11 00-1012 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0970)				
33 42 11 00-1013 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1012)				
33 42 11 00-1014	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	84.54 16.51	17.62
33 42 11 00-1015	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	96.16 19.38	20.83
33 42 11 00-1016	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	108.11 21.74	24.04
33 42 11 00-1017	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	128.64 26.55	27.23
33 42 11 00-1018	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.16 28.93	28.84
33 42 11 00-1019	LF	66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	175.18 37.16	35.25
33 42 11 00-1020	LF	72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	215.11 39.60	51.27
33 42 11 00-1021	LF	78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	232.31 42.06	56.08
33 42 11 00-1022	LF	84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	247.36 44.52	60.08
33 42 11 00-1023	LF	90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	262.40 46.98	64.08
33 42 11 00-1024	LF	96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	278.02 49.44	68.09
33 42 11 00-1025	LF	102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	295.90 51.92	72.10
33 42 11 00-1026 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1012)				
33 42 11 00-1027	LF	54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.60 23.01	27.23
33 42 11 00-1028	LF	60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	153.37 25.12	28.84
33 42 11 00-1029	LF	66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	189.72 31.62	35.25
33 42 11 00-1030	LF	72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	230.96 33.80	51.27
33 42 11 00-1031	LF	78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	249.44 35.97	56.08
33 42 11 00-1032	LF	84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	265.83 38.17	60.08
33 42 11 00-1033	LF	90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	282.14 40.34	64.08
33 42 11 00-1034	LF	96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	299.03 42.51	68.09
33 42 11 00-1035	LF	102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	318.19 44.70	72.10
33 42 11 00-1036	LF	108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	339.17 46.89	80.10
33 42 11 00-1037	LF	114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	359.70 49.04	88.12



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1038		12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1032)		
33 42 11 00-1039	LF	60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	182.75 33.69	28.84
33 42 11 00-1040	LF	66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	222.25 41.22	35.25
33 42 11 00-1041	LF	72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	266.31 44.21	51.27
33 42 11 00-1042	LF	78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	287.67 47.21	56.08
33 42 11 00-1043	LF	84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	306.90 50.23	60.08
33 42 11 00-1044	LF	90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	326.08 53.24	64.08
33 42 11 00-1045	LF	96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	345.83 56.24	68.09
33 42 11 00-1046	LF	102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	367.84 59.25	72.10
33 42 11 00-1047	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	391.66 62.26	80.10
33 42 11 00-1048	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	415.06 65.24	88.12
33 42 11 00-1049	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	437.58 68.26	96.12
33 42 11 00-1050		10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1032)		
33 42 11 00-1051	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	299.29 54.27	51.27
33 42 11 00-1052	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	323.30 58.07	56.08
33 42 11 00-1053	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	345.24 61.90	60.08
33 42 11 00-1054	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	367.10 65.71	64.08
33 42 11 00-1055	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	389.59 69.53	68.09
33 42 11 00-1056	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	414.33 73.36	72.10
33 42 11 00-1057	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	440.81 77.17	80.10
33 42 11 00-1058	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	466.91 80.95	88.12
33 42 11 00-1059	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	492.16 84.79	96.12
33 42 11 00-1060	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	518.89 88.59	104.14
33 42 11 00-1061	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	547.65 92.41	112.15
33 42 11 00-1062	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	578.86 96.25	120.16
33 42 11 00-1063		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0970)		
33 42 11 00-1064		16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1063)		
33 42 11 00-1065	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	108.50 26.93	24.04
33 42 11 00-1066	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	129.34 33.00	27.23
33 42 11 00-1067	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.76 35.88	28.84
33 42 11 00-1068	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	173.83 45.17	35.25
33 42 11 00-1069	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	213.60 48.12	51.27
33 42 11 00-1070	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	230.63 51.06	56.08
33 42 11 00-1071	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	245.42 53.99	60.08
33 42 11 00-1072	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	260.18 56.90	64.08
33 42 11 00-1073	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	275.66 59.86	68.09
33 42 11 00-1074	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	293.49 62.89	72.10

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1075		14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1063)		
33 42 11 00-1076	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	144.28 31.11	27.23
33 42 11 00-1077	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	157.42 33.97	28.84
33 42 11 00-1078	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	191.97 41.80	35.25
33 42 11 00-1079	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	233.23 44.63	51.27
33 42 11 00-1080	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	252.00 47.55	56.08
33 42 11 00-1081	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	268.46 50.42	60.08
33 42 11 00-1082	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	284.07 53.01	64.08
33 42 11 00-1083	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	301.93 56.15	68.09
33 42 11 00-1084	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	321.18 59.03	72.10
33 42 11 00-1085	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	342.18 61.87	80.10
33 42 11 00-1086	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	363.07 64.78	88.12
33 42 11 00-1087		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1063)		
33 42 11 00-1088	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	188.55 37.48	28.84
33 42 11 00-1089	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	226.29 44.98	35.25
33 42 11 00-1090	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	270.81 48.29	51.27
33 42 11 00-1091	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	292.46 51.57	56.08
33 42 11 00-1092	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	311.87 54.83	60.08
33 42 11 00-1093	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	331.43 58.13	64.08
33 42 11 00-1094	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	351.47 61.40	68.09
33 42 11 00-1095	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	373.71 64.68	72.10
33 42 11 00-1096	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	397.88 67.97	80.10
33 42 11 00-1097	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	421.67 71.25	88.12
33 42 11 00-1098	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	444.44 74.53	96.12
33 42 11 00-1099		10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1063)		
33 42 11 00-1100	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	306.79 58.58	51.27
33 42 11 00-1101	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	331.80 62.82	56.08
33 42 11 00-1102	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	354.33 66.97	60.08
33 42 11 00-1103	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	376.72 71.09	64.08
33 42 11 00-1104	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	399.82 75.23	68.09
33 42 11 00-1105	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	425.05 79.36	72.10
33 42 11 00-1106	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	452.19 83.51	80.10
33 42 11 00-1107	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	478.98 87.64	88.12
33 42 11 00-1108	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	504.70 91.77	96.12
33 42 11 00-1109	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	536.65 97.21	104.14
33 42 11 00-1110	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	567.16 101.69	112.15
33 42 11 00-1111	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	600.71 106.35	120.16
33 42 11 00-1112		Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0970)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-1113 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1112)					
33 42 11 00-1114	LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	38.79		9.28	
33 42 11 00-1115	LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	44.11		10.05	
33 42 11 00-1116	LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	49.15		10.82	
33 42 11 00-1117	LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	64.38		13.91	
33 42 11 00-1118	LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	82.02		17.62	
33 42 11 00-1119	LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	93.35		20.83	
33 42 11 00-1120	LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	105.30		24.04	
33 42 11 00-1121	LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	124.57		27.23	
33 42 11 00-1122	LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	136.07		28.84	
33 42 11 00-1123 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1112)					
33 42 11 00-1124	LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	42.25		9.28	
33 42 11 00-1125	LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	48.16		10.05	
33 42 11 00-1126	LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	53.74		10.82	
33 42 11 00-1127	LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	70.11		13.91	
33 42 11 00-1128	LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	88.92		17.62	
33 42 11 00-1129	LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	101.42		20.83	
33 42 11 00-1130	LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	114.52		24.04	
33 42 11 00-1131	LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	134.93		27.23	
33 42 11 00-1132	LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	147.62		28.84	
33 42 11 00-1133	LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	179.31		35.25	
33 42 11 00-1134	LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	220.10		51.27	
33 42 11 00-1135	LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	238.25		56.08	
33 42 11 00-1136 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1112)					
33 42 11 00-1137	LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	81.73		13.91	
33 42 11 00-1138	LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	102.83		17.62	
33 42 11 00-1139	LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	117.72		20.83	
33 42 11 00-1140	LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	133.11		24.04	
33 42 11 00-1141	LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	155.84		27.23	
33 42 11 00-1142	LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	170.88		28.84	
33 42 11 00-1143	LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	204.85		35.25	
33 42 11 00-1144	LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	247.93		51.27	
33 42 11 00-1145	LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	268.39		56.08	
33 42 11 00-1146	LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	286.60		60.08	
33 42 11 00-1147	LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	304.84		64.08	
33 42 11 00-1148	LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	323.60		68.09	
33 42 11 00-1149	LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	343.48		72.10	
33 42 11 00-1150 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0461)					
33 42 11 00-1151 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1150)					
33 42 11 00-1152 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1151)					
33 42 11 00-1153	LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	32.03		8.50	
	For 1/2 Bituminous Coated And 40% Paved, Add	7.18			
33 42 11 00-1154	LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	35.49		9.28	
	For 1/2 Bituminous Coated And 40% Paved, Add	8.58			
33 42 11 00-1155	LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	40.45		10.05	
	For 1/2 Bituminous Coated And 40% Paved, Add	10.32			
33 42 11 00-1156	LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	45.31		10.82	
	For 1/2 Bituminous Coated And 40% Paved, Add	11.89			
33 42 11 00-1157	LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	59.17		13.91	
	For 1/2 Bituminous Coated And 40% Paved, Add	15.11			
33 42 11 00-1158	LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	76.89		17.62	
	For 1/2 Bituminous Coated And 40% Paved, Add	19.48			
33 42 11 00-1159 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1151)					
33 42 11 00-1160	LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	34.97		8.50	
	For 1/2 Bituminous Coated And 40% Paved, Add	7.44			
33 42 11 00-1161	LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	39.06		9.28	
	For 1/2 Bituminous Coated And 40% Paved, Add	8.91			
33 42 11 00-1162	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	44.47		10.05	
	For 1/2 Bituminous Coated And 40% Paved, Add	10.60			
33 42 11 00-1163	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	49.96		10.82	
	For 1/2 Bituminous Coated And 40% Paved, Add	12.23			
33 42 11 00-1164	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	64.97		13.91	
	For 1/2 Bituminous Coated And 40% Paved, Add	15.49			
33 42 11 00-1165	LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	83.80		17.62	
	For 1/2 Bituminous Coated And 40% Paved, Add	19.73			
33 42 11 00-1166	LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	96.07		20.83	
	For 1/2 Bituminous Coated And 40% Paved, Add	23.50			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1167	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	(33 42 11 00-1151)		
33 42 11 00-1168	LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		46.34	9.28
	For 1/2 Bituminous Coated And 40% Paved, Add		8.16	
33 42 11 00-1169	LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		53.10	10.05
	For 1/2 Bituminous Coated And 40% Paved, Add		9.70	
33 42 11 00-1170	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		59.74	10.82
	For 1/2 Bituminous Coated And 40% Paved, Add		11.14	
33 42 11 00-1171	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		77.17	13.91
	For 1/2 Bituminous Coated And 40% Paved, Add		14.06	
33 42 11 00-1172	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		98.54	17.62
	For 1/2 Bituminous Coated And 40% Paved, Add		17.68	
33 42 11 00-1173	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		113.27	20.83
	For 1/2 Bituminous Coated And 40% Paved, Add		20.95	
33 42 11 00-1174	LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		132.32	24.04
	For 1/2 Bituminous Coated And 40% Paved, Add		24.94	
33 42 11 00-1175	LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		147.93	27.23
	For 1/2 Bituminous Coated And 40% Paved, Add		27.50	
33 42 11 00-1176	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	(33 42 11 00-1151)		
33 42 11 00-1177	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		111.78	17.62
	For 1/2 Bituminous Coated And 40% Paved, Add		18.60	
33 42 11 00-1178	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		128.71	20.83
	For 1/2 Bituminous Coated And 40% Paved, Add		21.98	
33 42 11 00-1179	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		149.83	24.04
	For 1/2 Bituminous Coated And 40% Paved, Add		25.96	
33 42 11 00-1180	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		167.73	27.23
	For 1/2 Bituminous Coated And 40% Paved, Add		28.74	
33 42 11 00-1181	LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		183.56	28.84
	For 1/2 Bituminous Coated And 40% Paved, Add		31.51	
33 42 11 00-1182	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	(33 42 11 00-1150)		
33 42 11 00-1183	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	(33 42 11 00-1182)		
33 42 11 00-1184	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		142.96	27.23
	For 1/2 Bituminous Coated And 40% Paved, Add		41.30	
33 42 11 00-1185	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		156.18	28.84
	For 1/2 Bituminous Coated And 40% Paved, Add		45.19	
33 42 11 00-1186	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		192.96	35.25
	For 1/2 Bituminous Coated And 40% Paved, Add		56.76	
33 42 11 00-1187	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		234.82	51.27
	For 1/2 Bituminous Coated And 40% Paved, Add		60.85	
33 42 11 00-1188	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		254.41	56.08
	For 1/2 Bituminous Coated And 40% Paved, Add		65.16	
33 42 11 00-1189	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		271.83	60.08
	For 1/2 Bituminous Coated And 40% Paved, Add		69.46	
33 42 11 00-1190	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		289.22	64.08
	For 1/2 Bituminous Coated And 40% Paved, Add		73.76	
33 42 11 00-1191	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		307.21	68.09
	For 1/2 Bituminous Coated And 40% Paved, Add		78.06	
33 42 11 00-1192	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	(33 42 11 00-1182)		
33 42 11 00-1193	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		185.58	28.84
	For 1/2 Bituminous Coated And 40% Paved, Add		51.36	
33 42 11 00-1194	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		225.55	35.25
	For 1/2 Bituminous Coated And 40% Paved, Add		62.77	
33 42 11 00-1195	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		270.31	51.27
	For 1/2 Bituminous Coated And 40% Paved, Add		67.51	
33 42 11 00-1196	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		292.73	56.08
	For 1/2 Bituminous Coated And 40% Paved, Add		72.41	
33 42 11 00-1197	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		313.06	60.08
	For 1/2 Bituminous Coated And 40% Paved, Add		77.35	
33 42 11 00-1198	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		333.34	64.08
	For 1/2 Bituminous Coated And 40% Paved, Add		82.27	
33 42 11 00-1199	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		354.17	68.09
	For 1/2 Bituminous Coated And 40% Paved, Add		87.18	
33 42 11 00-1200	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		377.31	72.10
	For 1/2 Bituminous Coated And 40% Paved, Add		92.13	
33 42 11 00-1201	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		402.22	80.10
	For 1/2 Bituminous Coated And 40% Paved, Add		97.05	
33 42 11 00-1202	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....		428.05	88.12
	For 1/2 Bituminous Coated And 40% Paved, Add		102.46	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1203	10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1182)		
33 42 11 00-1204	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	303.26 73.07	51.27
33 42 11 00-1205	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	328.42 78.51	56.08
33 42 11 00-1206	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	351.45 83.96	60.08
33 42 11 00-1207	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	374.38 89.37	64.08
33 42 11 00-1208	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	399.75 95.46	68.09
33 42 11 00-1209	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	423.77 100.26	72.10
33 42 11 00-1210	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	451.40 105.70	80.10
33 42 11 00-1211	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	479.68 111.50	88.12
33 42 11 00-1212	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	510.18 118.46	96.12
33 42 11 00-1213	125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1150)		
33 42 11 00-1214	12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1213)		
33 42 11 00-1215	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	273.64 66.44	51.27
33 42 11 00-1216	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	295.76 71.06	56.08
33 42 11 00-1217	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	315.60 75.64	60.08
33 42 11 00-1218	LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	335.41 80.20	64.08
33 42 11 00-1219	LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	355.88 84.80	68.09
33 42 11 00-1220	LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	378.77 89.47	72.10
33 42 11 00-1221	LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	403.43 94.13	80.10
33 42 11 00-1222	LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	430.81 99.95	88.12
33 42 11 00-1223	10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1213)		
33 42 11 00-1224	LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	310.14 73.70	51.27
33 42 11 00-1225	LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	335.19 78.96	56.08
33 42 11 00-1226	LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	357.97 84.18	60.08
33 42 11 00-1227	LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	380.83 89.44	64.08
33 42 11 00-1228	LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	403.80 94.53	68.09
33 42 11 00-1229	LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	430.04 99.99	72.10
33 42 11 00-1230	LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	457.74 105.33	80.10
33 42 11 00-1231	LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	488.11 111.72	88.12
33 42 11 00-1232	LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	516.48 117.75	96.12
33 42 11 00-1233	Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0461)		
33 42 11 00-1234	1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1233)		
33 42 11 00-1235	18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1234)		
33 42 11 00-1236	LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	16.39 1.37	4.64
33 42 11 00-1237	LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	20.90 1.85	5.80
33 42 11 00-1238	LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	26.98 2.44	6.96

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1239		16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1234)		
33 42 11 00-1240	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.96 1.35	4.64
33 42 11 00-1241	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	23.11 1.85	5.80
33 42 11 00-1242	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	29.94 2.45	6.96
33 42 11 00-1243		2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1233)		
33 42 11 00-1244		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1243)		
33 42 11 00-1245	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	31.38 2.69	8.12
33 42 11 00-1246	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	35.69 3.37	8.50
33 42 11 00-1247	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	40.24 4.10	9.28
33 42 11 00-1248	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	45.96 4.89	10.05
33 42 11 00-1249	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	51.17 5.55	10.82
33 42 11 00-1250		14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1243)		
33 42 11 00-1251	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	34.74 2.63	8.12
33 42 11 00-1252	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	39.97 3.31	8.50
33 42 11 00-1253	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	45.37 4.01	9.28
33 42 11 00-1254	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	51.91 4.76	10.05
33 42 11 00-1255	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	58.00 5.41	10.82
33 42 11 00-1256	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	75.70 6.93	13.91
33 42 11 00-1257	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	96.03 8.62	17.62
33 42 11 00-1258		12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1243)		
33 42 11 00-1259	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	71.05 5.14	10.82
33 42 11 00-1260	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	91.95 6.53	13.91
33 42 11 00-1261	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	115.55 8.05	17.62
33 42 11 00-1262	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	132.71 9.47	20.83
33 42 11 00-1263	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	150.07 10.72	24.04
33 42 11 00-1264	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	176.23 12.72	27.23
33 42 11 00-1265		10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1243)		
33 42 11 00-1266	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	136.34 7.92	17.62
33 42 11 00-1267	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	156.94 9.29	20.83
33 42 11 00-1268	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	177.83 10.55	24.04
33 42 11 00-1269	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	207.46 12.37	27.23
33 42 11 00-1270	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	227.96 13.64	28.84
33 42 11 00-1271		3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1233)		
33 42 11 00-1272		16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1271)		
33 42 11 00-1273	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	74.64	13.91
33 42 11 00-1274	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	94.71	17.62



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1275	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	107.97	20.83
33 42 11 00-1276	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	122.23	24.04
33 42 11 00-1277	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	143.98	27.23
33 42 11 00-1278 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum				
Piping (33 42 11 00-1271)				
33 42 11 00-1279	LF	30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	83.20	13.91
33 42 11 00-1280	LF	36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	106.92	17.62
33 42 11 00-1281	LF	42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	122.14	20.83
33 42 11 00-1282	LF	48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	137.70	24.04
33 42 11 00-1283	LF	54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	162.10	27.23
33 42 11 00-1284	LF	60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	177.19	28.84
33 42 11 00-1285	LF	66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	215.32	35.25
33 42 11 00-1286	LF	72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	258.73	51.27
33 42 11 00-1287	LF	78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	279.42	56.08
33 42 11 00-1288 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum				
Piping (33 42 11 00-1271)				
33 42 11 00-1289	LF	30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	103.18	13.91
33 42 11 00-1290	LF	36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	129.38	17.62
33 42 11 00-1291	LF	42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	148.99	20.83
33 42 11 00-1292	LF	48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	168.49	24.04
33 42 11 00-1293	LF	54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	196.66	27.23
33 42 11 00-1294	LF	60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	215.46	28.84
33 42 11 00-1295	LF	66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	257.29	35.25
33 42 11 00-1296	LF	72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	304.51	51.27
33 42 11 00-1297	LF	78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	328.94	56.08
33 42 11 00-1298	LF	84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	351.25	60.08
33 42 11 00-1299	LF	90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	373.50	64.08
33 42 11 00-1300	LF	96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	396.34	68.09
33 42 11 00-1301 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum				
Piping (33 42 11 00-1271)				
33 42 11 00-1302	LF	60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	255.72	28.84
33 42 11 00-1303	LF	66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	299.88	35.25
33 42 11 00-1304	LF	72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	350.91	51.27
33 42 11 00-1305	LF	78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	379.17	56.08
33 42 11 00-1306	LF	84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	405.24	60.08
33 42 11 00-1307	LF	90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	431.31	64.08
33 42 11 00-1308	LF	96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	457.94	68.09
33 42 11 00-1309	LF	102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	486.87	72.10
33 42 11 00-1310	LF	108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe	517.57	80.10
33 42 11 00-1311 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1239)				
Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.				
33 42 11 00-1312 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel				
Piping (33 42 11 00-1311)				
33 42 11 00-1313	LF	18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	51.76	9.28
33 42 11 00-1314	LF	21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	55.69	10.05
33 42 11 00-1315	LF	24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	66.48	10.82
33 42 11 00-1316	LF	27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	76.76	12.37
33 42 11 00-1317	LF	30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	86.36	13.91
33 42 11 00-1318	LF	33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	95.77	15.46
33 42 11 00-1319 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel				
Piping (33 42 11 00-1311)				
33 42 11 00-1320	LF	18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	59.00	9.28
33 42 11 00-1321	LF	21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	67.82	10.05
33 42 11 00-1322	LF	24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	76.21	10.82
33 42 11 00-1323	LF	27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	87.68	12.37
33 42 11 00-1324	LF	30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.48	13.91
33 42 11 00-1325	LF	33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	109.13	15.46
33 42 11 00-1326	LF	36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	123.53	17.62
33 42 11 00-1327	LF	42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	142.02	20.83
33 42 11 00-1328	LF	48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	160.67	24.04
33 42 11 00-1329 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel				
Piping (33 42 11 00-1311)				
33 42 11 00-1330	LF	30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	122.17	13.91
33 42 11 00-1331	LF	33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	135.13	15.46
33 42 11 00-1332	LF	36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	151.95	17.62

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1333 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	175.19	20.83
33 42 11 00-1334 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	198.58	24.04
33 42 11 00-1335 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	271.98	27.23
33 42 11 00-1336 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	299.18	28.84
33 42 11 00-1337 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1311)		
33 42 11 00-1338 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	275.84	24.04
33 42 11 00-1339 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	319.60	27.23
33 42 11 00-1340 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	352.16	28.84
33 42 11 00-1341 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	409.70	35.25
33 42 11 00-1342 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	469.86	51.27
33 42 11 00-1343 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	507.68	56.08
33 42 11 00-1344 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	543.02	60.08
33 42 11 00-1345 Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0461)		
33 42 11 00-1346 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1345)		
33 42 11 00-1347 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1346)		
33 42 11 00-1348 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	37.21	8.50
For Bituminous Coated Pipe, Add	3.38	
33 42 11 00-1349 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	41.69	9.28
For Bituminous Coated Pipe, Add	4.04	
33 42 11 00-1350 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	47.61	10.05
For Bituminous Coated Pipe, Add	4.80	
33 42 11 00-1351 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1346)		
33 42 11 00-1352 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	41.50	8.50
For Bituminous Coated Pipe, Add	3.37	
33 42 11 00-1353 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	45.80	9.28
For Bituminous Coated Pipe, Add	3.88	
33 42 11 00-1354 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	53.56	10.05
For Bituminous Coated Pipe, Add	4.77	
33 42 11 00-1355 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	60.23	10.82
For Bituminous Coated Pipe, Add	5.47	
33 42 11 00-1356 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	77.93	13.91
For Bituminous Coated Pipe, Add	6.92	
33 42 11 00-1357 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1346)		
33 42 11 00-1358 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	73.29	10.82
For Bituminous Coated Pipe, Add	5.21	
33 42 11 00-1359 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	94.21	13.91
For Bituminous Coated Pipe, Add	6.57	
33 42 11 00-1360 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	119.38	17.62
For Bituminous Coated Pipe, Add	8.20	
33 42 11 00-1361 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	137.76	20.83
For Bituminous Coated Pipe, Add	9.70	
33 42 11 00-1362 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1346)		
33 42 11 00-1363 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	140.14	17.62
For Bituminous Coated Pipe, Add	7.91	
33 42 11 00-1364 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	162.02	20.83
For Bituminous Coated Pipe, Add	9.34	
33 42 11 00-1365 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	188.05	24.04
For Bituminous Coated Pipe, Add	10.94	
33 42 11 00-1366 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	210.82	27.23
For Bituminous Coated Pipe, Add	12.17	
33 42 11 00-1367 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1345)		
33 42 11 00-1368 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1367)		
33 42 11 00-1369 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	165.46	27.23
33 42 11 00-1370 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	181.09	28.84
33 42 11 00-1371 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	220.14	35.25
33 42 11 00-1372 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1367)		
33 42 11 00-1373 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	200.02	27.23
33 42 11 00-1374 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	219.36	28.84
33 42 11 00-1375 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	261.95	35.25
33 42 11 00-1376 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	309.51	51.27
33 42 11 00-1377 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	334.30	56.08



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1378	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	356.96		60.08
33 42 11 00-1379 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1367)					
33 42 11 00-1380	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	259.56		28.84
33 42 11 00-1381	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	304.36		35.25
33 42 11 00-1382	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	355.74		51.27
33 42 11 00-1383	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	384.35		56.08
33 42 11 00-1384	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	410.77		60.08
33 42 11 00-1385	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	437.18		64.08
33 42 11 00-1386 Corrugated Steel Pipe Fittings (33 42 11 00-0461) Note: Equivalent pipe-arch sizes are approximate.					
33 42 11 00-1387 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings (33 42 11 00-1386) Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.					
33 42 11 00-1388	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	70.17		
33 42 11 00-1389	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	88.00		
33 42 11 00-1390	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	105.82		
33 42 11 00-1391	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	124.77		
33 42 11 00-1392	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	151.49		
33 42 11 00-1393	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	178.21		
33 42 11 00-1394	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	204.95		
33 42 11 00-1395	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	231.67		
33 42 11 00-1396	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	301.86		
33 42 11 00-1397	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	359.78		
33 42 11 00-1398	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	417.70		
33 42 11 00-1399	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	540.23		
33 42 11 00-1400	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	609.30		
33 42 11 00-1401	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	680.58		
33 42 11 00-1402	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	754.10		
33 42 11 00-1403	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	918.95		
33 42 11 00-1404	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,002.48		
33 42 11 00-1405	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,088.25		
33 42 11 00-1406	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,335.52		
33 42 11 00-1407	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,433.56		
33 42 11 00-1408	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,532.69		
33 42 11 00-1409	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,631.81		
33 42 11 00-1410	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,729.83		
33 42 11 00-1411	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,828.98		
33 42 11 00-1412	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,933.50		
33 42 11 00-1413	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,044.00		
33 42 11 00-1414	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,160.78		
33 42 11 00-1415 Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1386) Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.					
33 42 11 00-1416	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	91.34		
33 42 11 00-1417	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	116.96		
33 42 11 00-1418	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	142.56		
33 42 11 00-1419	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	168.20		
33 42 11 00-1420	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	204.95		
33 42 11 00-1421	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	242.81		
33 42 11 00-1422	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	280.71		
33 42 11 00-1423	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	318.55		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1424	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	417.70	
33 42 11 00-1425	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	497.90	
33 42 11 00-1426	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	579.21	
33 42 11 00-1427	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	751.85	
33 42 11 00-1428	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	846.54	
33 42 11 00-1429	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	944.55	
33 42 11 00-1430	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,044.80	
33 42 11 00-1431	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,274.26	
33 42 11 00-1432	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,387.89	
33 42 11 00-1433	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,503.72	
33 42 11 00-1434	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	1,850.12	
33 42 11 00-1435	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	1,982.68	
33 42 11 00-1436	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,115.23	
33 42 11 00-1437	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,248.88	
33 42 11 00-1438	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,382.56	
33 42 11 00-1439	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,515.09	
33 42 11 00-1440	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	2,655.01	
33 42 11 00-1441	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	2,802.72	
33 42 11 00-1442	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	2,958.61	

33 42 11 00-1443 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1386)

Note: Applied to pipe tasks.

33 42 11 00-1444	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	35.48	
33 42 11 00-1445	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	44.63	
33 42 11 00-1446	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	56.13	
33 42 11 00-1447	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	68.74	
33 42 11 00-1448	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	86.98	
33 42 11 00-1449	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	106.51	
33 42 11 00-1450	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	124.75	
33 42 11 00-1451	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	144.95	
33 42 11 00-1452	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	178.03	
33 42 11 00-1453	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	212.26	
33 42 11 00-1454	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	253.27	
33 42 11 00-1455	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	311.54	
33 42 11 00-1456	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	352.63	
33 42 11 00-1457	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	397.12	
33 42 11 00-1458	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	481.59	
33 42 11 00-1459	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	534.06	
33 42 11 00-1460	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	651.61	
33 42 11 00-1461	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	709.83	
33 42 11 00-1462	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	771.48	
33 42 11 00-1463	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	831.92	
33 42 11 00-1464	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	893.55	
33 42 11 00-1465	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	956.31	
33 42 11 00-1466	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,017.96	
33 42 11 00-1467	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,079.56	
33 42 11 00-1468	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,144.90	
33 42 11 00-1469	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,214.19	
33 42 11 00-1470	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,287.68	

33 42 11 00-1471 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1386)

33 42 11 00-1472	EA	6" Coupling Band, Corrugated Metal Pipe Fitting.....	7.82	
		<i>For Bituminous Coated, Add</i>	2.27	
33 42 11 00-1473	EA	8" Coupling Band, Corrugated Metal Pipe Fitting.....	10.38	
		<i>For Bituminous Coated, Add</i>	3.01	
33 42 11 00-1474	EA	10" Coupling Band, Corrugated Metal Pipe Fitting.....	13.08	
		<i>For Bituminous Coated, Add</i>	3.79	
33 42 11 00-1475	EA	12" Coupling Band, Corrugated Metal Pipe Fitting.....	21.71	
		<i>For Bituminous Coated, Add</i>	6.30	
33 42 11 00-1476	EA	15" Coupling Band, Corrugated Metal Pipe Fitting.....	27.38	
		<i>For Bituminous Coated, Add</i>	7.94	
33 42 11 00-1477	EA	18" Coupling Band, Corrugated Metal Pipe Fitting.....	40.17	
		<i>For Bituminous Coated, Add</i>	11.65	
33 42 11 00-1478	EA	21" Coupling Band, Corrugated Metal Pipe Fitting.....	47.67	
		<i>For Bituminous Coated, Add</i>	13.82	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1479	EA	24" Coupling Band, Corrugated Metal Pipe Fitting	54.06	
		For Bituminous Coated, Add	15.68	
33 42 11 00-1480	EA	30" Coupling Band, Corrugated Metal Pipe Fitting	93.55	
		For Bituminous Coated, Add	27.13	
33 42 11 00-1481	EA	36" Coupling Band, Corrugated Metal Pipe Fitting	149.67	
		For Bituminous Coated, Add	35.92	
33 42 11 00-1482	EA	42" Coupling Band, Corrugated Metal Pipe Fitting	175.86	
		For Bituminous Coated, Add	42.21	
33 42 11 00-1483	EA	48" Coupling Band, Corrugated Metal Pipe Fitting	197.06	
		For Bituminous Coated, Add	47.29	
33 42 11 00-1484	EA	54" Coupling Band, Corrugated Metal Pipe Fitting	279.46	
		For Bituminous Coated, Add	67.07	
33 42 11 00-1485	EA	60" Coupling Band, Corrugated Metal Pipe Fitting	399.71	
		For Bituminous Coated, Add	71.95	
33 42 11 00-1486	EA	66" Coupling Band, Corrugated Metal Pipe Fitting	491.23	
		For Bituminous Coated, Add	88.42	
33 42 11 00-1487	EA	72" Coupling Band, Corrugated Metal Pipe Fitting	631.02	
		For Bituminous Coated, Add	88.34	
33 42 11 00-1488	EA	78" Coupling Band, Corrugated Metal Pipe Fitting	674.92	
		For Bituminous Coated, Add	94.49	
33 42 11 00-1489	EA	84" Coupling Band, Corrugated Metal Pipe Fitting	719.06	
		For Bituminous Coated, Add	100.67	
33 42 11 00-1490	EA	90" Coupling Band, Corrugated Metal Pipe Fitting	762.98	
		For Bituminous Coated, Add	106.82	
33 42 11 00-1491	EA	96" Coupling Band, Corrugated Metal Pipe Fitting	807.01	
		For Bituminous Coated, Add	112.98	
33 42 11 00-1492	EA	102" Coupling Band, Corrugated Metal Pipe Fitting	851.16	
		For Bituminous Coated, Add	119.16	
33 42 11 00-1493	EA	108" Coupling Band, Corrugated Metal Pipe Fitting	895.10	
		For Bituminous Coated, Add	125.31	
33 42 11 00-1494	EA	114" Coupling Band, Corrugated Metal Pipe Fitting	1,060.15	
		For Bituminous Coated, Add	127.22	
33 42 11 00-1495	EA	120" Coupling Band, Corrugated Metal Pipe Fitting	982.92	
		For Bituminous Coated, Add	117.95	
33 42 11 00-1496	EA	126" Coupling Band, Corrugated Metal Pipe Fitting	1,026.73	
		For Bituminous Coated, Add	123.21	
33 42 11 00-1497	EA	132" Coupling Band, Corrugated Metal Pipe Fitting	1,070.85	
		For Bituminous Coated, Add	128.50	
33 42 11 00-1498	EA	138" Coupling Band, Corrugated Metal Pipe Fitting	1,115.02	
		For Bituminous Coated, Add	133.80	

33 42 13 Stormwater Culverts (33 42)

33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)

33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes excavation and backfill. Minimum length 6'-0".

33 42 13 13-0002	LF	4' x 2' Precast Reinforced Concrete Box Culvert	205.43	40.06
		For Each LF Of Cut-Off Section, Add	8.22	
33 42 13 13-0003	LF	4' x 3' Precast Reinforced Concrete Box Culvert	222.57	40.06
		For Each LF Of Cut-Off Section, Add	8.90	
33 42 13 13-0004	LF	5' x 3' Precast Reinforced Concrete Box Culvert	291.77	50.06
		For Each LF Of Cut-Off Section, Add	11.67	
33 42 13 13-0005	LF	5' x 4' Precast Reinforced Concrete Box Culvert	312.44	50.06
		For Each LF Of Cut-Off Section, Add	12.50	
33 42 13 13-0006	LF	5' x 5' Precast Reinforced Concrete Box Culvert	333.10	50.06
		For Each LF Of Cut-Off Section, Add	13.32	
33 42 13 13-0007	LF	6' x 3' Precast Reinforced Concrete Box Culvert	352.12	52.07
		For Each LF Of Cut-Off Section, Add	14.08	
33 42 13 13-0008	LF	6' x 4' Precast Reinforced Concrete Box Culvert	376.28	52.07
		For Each LF Of Cut-Off Section, Add	15.05	
33 42 13 13-0009	LF	6' x 6' Precast Reinforced Concrete Box Culvert	424.42	52.07
		For Each LF Of Cut-Off Section, Add	16.98	
33 42 13 13-0010	LF	7' x 4' Precast Reinforced Concrete Box Culvert	458.43	60.08
		For Each LF Of Cut-Off Section, Add	18.34	
33 42 13 13-0011	LF	7' x 6' Precast Reinforced Concrete Box Culvert	556.37	81.71
		For Each LF Of Cut-Off Section, Add	22.25	
33 42 13 13-0012	LF	8' x 2' Precast Reinforced Concrete Box Culvert	415.13	52.07
		For Each LF Of Cut-Off Section, Add	16.61	
33 42 13 13-0013	LF	8' x 3' Precast Reinforced Concrete Box Culvert	454.05	60.08
		For Each LF Of Cut-Off Section, Add	18.16	
33 42 13 13-0014	LF	8' x 4' Precast Reinforced Concrete Box Culvert	485.92	60.08
		For Each LF Of Cut-Off Section, Add	19.44	
33 42 13 13-0015	LF	8' x 5' Precast Reinforced Concrete Box Culvert	553.22	80.10
		For Each LF Of Cut-Off Section, Add	22.13	
33 42 13 13-0016	LF	8' x 6' Precast Reinforced Concrete Box Culvert	580.69	80.10
		For Each LF Of Cut-Off Section, Add	23.23	
33 42 13 13-0017	LF	8' x 8' Precast Reinforced Concrete Box Culvert	675.47	100.13
		For Each LF Of Cut-Off Section, Add	27.02	
33 42 13 13-0018	LF	9' x 4' Precast Reinforced Concrete Box Culvert	602.59	80.10
		For Each LF Of Cut-Off Section, Add	24.10	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0019 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	704.18 28.17	100.13
33 42 13 13-0020 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	691.58 27.66	100.13
33 42 13 13-0021 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	724.71 28.99	100.13
33 42 13 13-0022 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	799.98 32.00	120.16
33 42 13 13-0023 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	834.48 33.38	120.16
33 42 13 13-0024 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	868.98 34.76	120.16
33 42 13 13-0025 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	903.26 36.13	120.16
33 42 13 13-0026 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	784.41 31.38	140.19
33 42 13 13-0027 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	993.47 39.74	140.19
33 42 13 13-0028 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,076.11 43.04	140.19
33 42 13 13-0029 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,158.73 46.35	140.19
33 42 13 13-0030 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,446.25 57.85	160.21
33 42 13 13-0031 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Each LF Of Cut-Off Section, Add	1,776.77 71.07	160.21
33 42 13 13-0032 Precast Reinforced Concrete Box Culvert For Roadways (33 42 13 13) Note: AASHTO H/20, H/25 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes excavation and backfill. Minimum length 6'-0".		
33 42 13 13-0033 LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	769.64 30.79	40.06
33 42 13 13-0034 LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	863.67 34.55	40.06
33 42 13 13-0035 LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	977.71 39.11	50.06
33 42 13 13-0036 LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,071.74 42.87	50.06
33 42 13 13-0037 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,165.77 46.63	50.06
33 42 13 13-0038 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,075.75 43.03	52.07
33 42 13 13-0039 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,169.78 46.79	52.07
33 42 13 13-0040 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,357.84 54.31	52.07
33 42 13 13-0041 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,279.83 51.19	60.08
33 42 13 13-0042 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,511.12 60.44	81.71
33 42 13 13-0043 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,169.78 46.79	52.07
33 42 13 13-0044 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,279.83 51.19	60.08
33 42 13 13-0045 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,373.86 54.95	60.08
33 42 13 13-0046 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,507.92 60.32	80.10
33 42 13 13-0047 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,601.95 64.08	80.10
33 42 13 13-0048 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,830.07 73.20	100.13
33 42 13 13-0049 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,617.34 64.69	80.10
33 42 13 13-0050 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,858.37 74.33	100.13
33 42 13 13-0051 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,837.91 73.52	100.13
33 42 13 13-0052 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	1,949.57 77.98	100.13
33 42 13 13-0053 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,101.26 84.05	120.16
33 42 13 13-0054 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,212.91 88.52	120.16
33 42 13 13-0055 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,324.58 92.98	120.16
33 42 13 13-0056 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,436.24 97.45	120.16
33 42 13 13-0057 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,438.30 97.53	140.19
33 42 13 13-0058 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways For Each LF Of Cut-Off Section, Add	2,565.22 102.61	140.19



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 42 13 13-0059	LF	12' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,819.09 112.76	140.19
33 42 13 13-0060	LF	12' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,072.97 122.92	140.19
33 42 13 13-0061	LF	16' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,677.19 147.09	160.21
33 42 13 13-0062	LF	24' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,636.27 185.45	160.21
33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)				
33 42 23 00-0001		Headwalls (33 42 23) Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.		
33 42 23 00-0002		Cast In Place Concrete Headwalls (33 42 23 00-0001)		
33 42 23 00-0003		Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002) Note: Sized by pipe diameter.		
33 42 23 00-0004	EA	12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,094.99	536.30
33 42 23 00-0005	EA	15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,382.94	572.05
33 42 23 00-0006	EA	18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,799.57	749.32
33 42 23 00-0007	EA	24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,785.12	1,072.60
33 42 23 00-0008	EA	30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,857.87	1,430.15
33 42 23 00-0009	EA	36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,825.23	1,885.09
33 42 23 00-0010	EA	42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,706.88	2,600.24
33 42 23 00-0011	EA	48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,968.36	3,064.56
33 42 23 00-0012	EA	54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,593.85	3,730.85
33 42 23 00-0013	EA	60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	11,533.48	4,516.24
33 42 23 00-0014		Precast Concrete Headwalls (33 42 23 00-0001)		
33 42 23 00-0015	EA	12" Pipe, Precast Concrete Headwall	550.47	139.09
33 42 23 00-0016	EA	15" Pipe, Precast Concrete Headwall	573.65	146.82
33 42 23 00-0017	EA	18" Pipe, Precast Concrete Headwall	633.14	166.90
33 42 23 00-0018	EA	24" Pipe, Precast Concrete Headwall	696.84	177.73
33 42 23 00-0019	EA	30" Pipe, Precast Concrete Headwall	910.64	208.63
33 42 23 00-0020	EA	36" Pipe, Precast Concrete Headwall	1,029.62	216.36
33 42 23 00-0021	EA	42" Pipe, Precast Concrete Headwall	1,317.35	247.20
33 42 23 00-0022	EA	48" Pipe, Precast Concrete Headwall	1,448.83	272.36
33 42 23 00-0023	EA	54" Pipe, Precast Concrete Headwall	1,594.30	288.38
33 42 23 00-0024	EA	60" Pipe, Precast Concrete Headwall	1,800.51	288.38
33 42 23 00-0025	EA	72" Pipe, Precast Concrete Headwall	2,148.83	360.47
33 42 23 00-0026	EA	84" Pipe, Precast Concrete Headwall	2,998.93	432.57
33 42 23 00-0027		Precast Concrete Wingwalls (33 42 23 00-0001)		
33 42 23 00-0028	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	3,466.23	1,427.49
33 42 23 00-0029	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	3,706.55	1,586.09
33 42 23 00-0030	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,107.08	1,850.44
33 42 23 00-0031	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	4,507.61	2,114.79
33 42 23 00-0032	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,507.61	2,114.79
33 42 23 00-0033	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall..... Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	4,667.82	2,220.53
33 42 23 00-0034	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.	7,327.56	2,273.40
33 42 23 00-0035	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall..... Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.	7,567.87	2,432.01
33 42 23 00-0036		Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate.....	2,914.92	560.74
33 42 26 End Sections for Stormwater Piping (33 42)				
33 42 26 16		Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001		Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002		Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003		Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002) Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	199.37	54.09
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	229.96	57.95
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	266.75	61.82
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	320.91	67.61
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	355.06	73.41

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0009 Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)				
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.				
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	562.08	83.07
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	722.49	96.12
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,098.81	112.15
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,340.14	128.17
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,598.32	160.21
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,867.86	192.25
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)				
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.				
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	207.52	54.09
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	238.34	57.95
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	279.63	61.82
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	336.37	67.61
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	372.60	73.41
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	615.92	83.07
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	788.19	96.12
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,244.80	112.15
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,528.54	128.17
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,788.85	160.21
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,471.30	192.25
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,822.57	288.38
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,314.96	384.51
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,609.29	412.54
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,910.58	440.58
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)				
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	23.48	
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	25.96	
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	28.98	
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	31.49	
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	35.15	
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	60.04	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	64.64	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	87.19	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	93.64	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	113.90	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	117.13	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	126.05	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	146.47	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	163.58	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	168.29	
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)				
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.				
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	229.96	57.95
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	266.75	61.82
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	320.91	67.61
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	355.06	73.41
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.				
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	222.93	57.95
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	253.74	61.82
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	283.67	67.61
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	319.50	73.41
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	460.70	83.07
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	660.40	96.12
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,018.67	112.15
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,286.73	128.17
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)				
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.				
33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	226.50	57.95
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	261.50	61.82
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	295.80	67.61
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	333.88	73.41
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	485.14	83.07
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	693.74	96.12
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,071.99	112.15
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,348.10	128.17



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,623.54	160.21
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,129.68	192.25
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,977.43	288.38
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,312.91	384.51
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)				
33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	25.96	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	28.98	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	31.49	
33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	35.15	
33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	60.04	
33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	64.64	
33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	87.19	
33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	97.14	
33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	113.90	
33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	118.53	
33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	137.42	
33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	158.99	
33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)				
33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)				
33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	294.06	54.09
33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	337.78	57.95
33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	398.70	61.82
33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	491.96	67.61
33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	638.75	73.41
33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	950.96	83.07
33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,284.06	96.12
33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,593.86	96.12
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,030.86	112.15
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,892.46	128.17
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,207.47	160.21
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	4,318.55	192.25
33 42 26 16-0103	EA	66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	4,905.13	288.38
33 42 26 16-0104	EA	72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,746.32	384.51
33 42 26 16-0105	EA	78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,274.51	412.54
33 42 26 16-0106	EA	84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,621.79	440.58
33 42 26 16-0107	EA	90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,035.55	480.63
33 42 26 16-0108	EA	96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,000.50	520.69
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)				
33 42 26 16-0110	EA	Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	42.20	
33 42 26 16-0111	EA	Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	44.66	
33 42 26 16-0112	EA	Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	48.25	
33 42 26 16-0113	EA	Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	54.13	
33 42 26 16-0114	EA	Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	57.54	
33 42 26 16-0115	EA	Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	74.77	
33 42 26 16-0116	EA	Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	89.30	
33 42 26 16-0117	EA	Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	93.80	
33 42 26 16-0118	EA	Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	102.84	
33 42 26 16-0119	EA	Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	116.23	
33 42 26 16-0120	EA	Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	137.09	
33 42 26 16-0121	EA	Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	188.30	
33 42 26 16-0122	EA	Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	204.39	
33 42 26 16-0123	EA	Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	262.18	
33 42 26 16-0124	EA	Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	284.11	
33 42 26 16-0125	EA	Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	302.88	
33 42 26 16-0126	EA	Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	322.51	
33 42 26 16-0127	EA	96" Diameter Corrugated Aluminum Pipe End Section, 12 And 10 Gauge Toe Plate Extension	342.48	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)				
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)				
33 42 26 16-0130	EA	17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	347.79	57.95
33 42 26 16-0131	EA	21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	423.10	61.82
33 42 26 16-0132	EA	24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	459.59	67.61
33 42 26 16-0133	EA	28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	496.05	73.41
33 42 26 16-0134	EA	35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	736.91	83.07
33 42 26 16-0135	EA	42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,298.30	96.12
33 42 26 16-0136	EA	42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,376.85	96.12
33 42 26 16-0137	EA	49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,837.13	112.15
33 42 26 16-0138	EA	57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,817.02	128.17
33 42 26 16-0139	EA	64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,227.95	160.21
33 42 26 16-0140	EA	71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,902.59	192.25
33 42 26 16-0141	EA	77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,531.08	288.38

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	6,870.82	384.51
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	7,479.92	412.54
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	7,809.10	440.58
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	8,512.05	480.63
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	9,019.72	520.69
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42		
26 16-0128)		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	44.66	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	48.25	
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	50.99	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	55.80	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	64.88	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	83.62	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	90.79	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	102.84	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	116.23	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	137.09	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	172.36	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	217.74	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	295.55	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	334.92	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	351.34	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	365.03	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	381.54	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	401.02	57.95
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	510.62	61.82
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	621.55	67.61
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	740.19	73.41
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	878.83	83.07
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,141.87	96.12
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,798.43	112.15
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End		
Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section.....	280.23	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section.....	549.65	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section.....	603.12	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section.....	689.32	
33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	464.30	57.95
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	605.49	61.82
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	802.47	67.61
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	941.46	73.41
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,116.40	83.07
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,351.56	96.12
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,060.79	112.15
33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End		
Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section.....	536.78	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section.....	679.31	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section.....	747.23	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section.....	785.69	
33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42		
26 16-0165)		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	49.34	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	55.05	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	59.88	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	66.73	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	98.81	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	106.02	
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	140.81	
33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26		
16-0001)		



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)				
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	526.05	61.82
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	657.88	67.61
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	777.27	73.41
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,452.79	83.07
33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)				
Note: Includes nut and bolt set.				
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	372.99	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	674.81	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	711.21	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,044.17	
33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)				
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	54.77	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	62.04	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	67.63	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	80.92	
33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)				
33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)				
33 42 26 19-0002	EA	4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	37.82	17.38
33 42 26 19-0003	EA	6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	60.12	26.06
33 42 26 19-0004	EA	8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	77.02	32.58
33 42 26 19-0005	EA	10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	122.64	52.13
33 42 26 19-0006	EA	12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	140.30	58.64
33 42 26 19-0007	EA	15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	150.13	62.99
33 42 26 19-0008	EA	18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	169.78	69.50
33 42 26 19-0009	EA	24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	207.44	82.53
33 42 26 19-0010	EA	30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	330.52	93.39
33 42 26 19-0011	EA	36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	368.21	104.25
33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)				
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)				
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0003	EA	12" Diameter Pipe, Precast Concrete End Section.....	591.19	90.64
33 42 26 23-0004	EA	15" Diameter Pipe, Precast Concrete End Section.....	795.38	112.20
33 42 26 23-0005	EA	18" Diameter Pipe, Precast Concrete End Section.....	984.22	142.02
33 42 26 23-0006	EA	21" Diameter Pipe, Precast Concrete End Section.....	1,128.20	169.84
33 42 26 23-0007	EA	24" Diameter Pipe, Precast Concrete End Section.....	1,196.03	196.58
33 42 26 23-0008	EA	27" Diameter Pipe, Precast Concrete End Section.....	1,488.91	238.72
33 42 26 23-0009	EA	30" Diameter Pipe, Precast Concrete End Section.....	1,837.37	358.56
33 42 26 23-0010	EA	36" Diameter Pipe, Precast Concrete End Section.....	2,266.29	452.43
33 42 26 23-0011	EA	42" Diameter Pipe, Precast Concrete End Section.....	2,737.14	567.55
33 42 26 23-0012	EA	48" Diameter Pipe, Precast Concrete End Section.....	2,995.59	640.04
33 42 26 23-0013	EA	54" Diameter Pipe, Precast Concrete End Section.....	3,263.00	716.95
33 42 26 23-0014	EA	60" Diameter Pipe, Precast Concrete End Section.....	3,536.97	797.05
33 42 26 23-0015	EA	66" Diameter Pipe Precast Concrete End Section.....	3,588.83	658.74
33 42 26 23-0016	EA	72" Diameter Pipe Precast Concrete End Section.....	4,097.56	823.41
33 42 26 23-0017	EA	78" Diameter Pipe Precast Concrete End Section.....	4,862.39	1,029.25
33 42 26 23-0018	EA	84" Diameter Pipe Precast Concrete End Section.....	5,750.28	1,235.11
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0020	EA	12" Diameter Pipe, Flared Precast Concrete End Section.....	742.54	93.32
33 42 26 23-0021	EA	15" Diameter Pipe, Flared Precast Concrete End Section.....	893.45	116.31
33 42 26 23-0022	EA	18" Diameter Pipe, Flared Precast Concrete End Section.....	1,083.27	147.24
33 42 26 23-0023	EA	21" Diameter Pipe, Flared Precast Concrete End Section.....	1,235.99	176.07
33 42 26 23-0024	EA	24" Diameter Pipe, Flared Precast Concrete End Section.....	1,510.76	203.78
33 42 26 23-0025	EA	27" Diameter Pipe, Flared Precast Concrete End Section.....	1,803.34	325.47
33 42 26 23-0026	EA	30" Diameter Pipe, Flared Precast Concrete End Section.....	1,850.63	448.11
33 42 26 23-0027	EA	36" Diameter Pipe, Flared Precast Concrete End Section.....	2,509.74	565.55
33 42 26 23-0028	EA	42" Diameter Pipe, Flared Precast Concrete End Section.....	3,004.45	709.58
33 42 26 23-0029	EA	48" Diameter Pipe, Flared Precast Concrete End Section.....	3,243.37	800.26
33 42 26 23-0030	EA	54" Diameter Pipe, Flared Precast Concrete End Section.....	3,627.47	896.30
33 42 26 23-0031	EA	60" Diameter Pipe, Flared Precast Concrete End Section.....	4,018.37	995.55
33 42 26 23-0032	EA	66" Diameter Pipe, Flared Precast Concrete End Section.....	4,690.37	1,147.03
33 42 26 23-0033	EA	72" Diameter Pipe, Flared Precast Concrete End Section.....	5,484.16	1,280.25
33 42 26 23-0034	EA	78" Diameter Pipe, Flared Precast Concrete End Section.....	6,221.52	1,440.22
33 42 26 23-0035	EA	84" Diameter Pipe, Flared Precast Concrete End Section.....	7,191.19	1,600.03

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 23-0036 Elliptical Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0037	EA	18" x 12" Elliptical Precast Concrete End Section.....	1,073.15	116.31
33 42 26 23-0038	EA	23" x 14" Elliptical Precast Concrete End Section.....	1,298.81	147.24
33 42 26 23-0039	EA	30" x 19" Elliptical Precast Concrete End Section.....	1,811.95	203.78
33 42 26 23-0040	EA	34" x 22" Elliptical Precast Concrete End Section.....	2,132.00	325.47
33 42 26 23-0041	EA	38" x 24" Elliptical Precast Concrete End Section.....	2,145.06	448.11
33 42 26 23-0042	EA	42" x 27" Elliptical Precast Concrete End Section.....	2,534.98	507.07
33 42 26 23-0043	EA	45" x 29" Elliptical Precast Concrete End Section.....	2,924.91	565.55
33 42 26 23-0044	EA	53" x 34" Elliptical Precast Concrete End Section.....	3,489.26	709.58
33 42 26 23-0045	EA	60" x 38" Elliptical Precast Concrete End Section.....	3,753.84	800.26
33 42 26 23-0046	EA	68" x 43" Elliptical Precast Concrete End Section.....	4,197.92	896.30
33 42 26 23-0047	EA	76" x 48" Elliptical Precast Concrete End Section.....	4,649.14	995.55
33 42 26 23-0048 Mitered Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0049	EA	12" Round Mitered Precast Concrete End Sections	303.94	93.32
33 42 26 23-0050	EA	15" Round Mitered Precast Concrete End Sections	337.59	116.31
33 42 26 23-0051	EA	18" Round Mitered Precast Concrete End Sections	410.27	147.24
33 42 26 23-0052	EA	24" Round Mitered Precast Concrete End Sections	589.77	203.78
33 42 26 23-0053	EA	18" x 12" Elliptical Mitered Precast Concrete End Sections.....	358.11	116.31
33 42 26 23-0054	EA	23" x 14" Elliptical Mitered Precast Concrete End Sections.....	446.74	147.24
33 42 26 23-0055	EA	30" x 19" Elliptical Mitered Precast Concrete End Sections.....	634.19	203.78
33 42 31 Stormwater Area Drains and Inlets (33 42)				
33 42 31 00-0001 Storm Drains (33 42 31)				
See CSI section 33 05 61 00-0001 for manhole structures.				
33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)				
Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.				
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)				
Note: Inside dimensions.				
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,447.70	263.78
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,730.71	309.07
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,013.73	354.28
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,296.74	399.57
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,579.74	444.78
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	1,879.78	262.20
33 42 31 00-0012	EA	3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,321.69	349.59
33 42 31 00-0013	EA	4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,956.78	476.72
33 42 31 00-0014	EA	5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,607.16	556.16
33 42 31 00-0015	EA	6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,112.28	635.62
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0017	EA	2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,021.58	286.03
33 42 31 00-0018	EA	3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,801.32	397.26
33 42 31 00-0019	EA	4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,414.01	516.44
33 42 31 00-0020	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,942.20	595.90
33 42 31 00-0021	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,998.28	762.75
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)				
Note: Inside span, overall depth.				
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0024	EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	1,754.22	318.92
33 42 31 00-0025	EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	1,861.78	339.10
33 42 31 00-0026	EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,023.61	364.21
33 42 31 00-0027	EA	4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,284.91	403.14
33 42 31 00-0028	EA	5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,454.87	429.13
33 42 31 00-0029	EA	5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,572.83	450.02
33 42 31 00-0030	EA	6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,742.93	476.00
33 42 31 00-0031	EA	6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,858.24	496.97
33 42 31 00-0032	EA	7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,029.41	522.88
33 42 31 00-0033	EA	7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,146.30	543.85
33 42 31 00-0034	EA	8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,316.33	569.83
33 42 31 00-0035	VLF	>8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	414.56	71.19
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0037	EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,022.42	368.66
33 42 31 00-0038	EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,158.46	394.56



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 42 31 00-0039	EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,327.84	420.54	
33 42 31 00-0040	EA	4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,633.12	465.75	
33 42 31 00-0041	EA	5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	2,821.26	495.15	
33 42 31 00-0042	EA	5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	2,957.27	519.54	
33 42 31 00-0043	EA	6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,147.90	548.94	
33 42 31 00-0044	EA	6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,283.90	573.33	
33 42 31 00-0045	EA	7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,473.03	602.73	
33 42 31 00-0046	EA	7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,609.46	627.12	
33 42 31 00-0047	EA	8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,798.67	656.52	
33 42 31 00-0048	VLF	>8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	474.86	82.07	
33 42 31 00-0049	4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0050	EA	3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,309.41	421.73	
33 42 31 00-0051	EA	3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,452.99	448.51	
33 42 31 00-0052	EA	4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	2,649.78	480.21	
33 42 31 00-0053	EA	4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	2,999.54	531.78	
33 42 31 00-0054	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,208.30	564.59	
33 42 31 00-0055	EA	5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,363.75	592.48	
33 42 31 00-0056	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,572.51	625.29	
33 42 31 00-0057	EA	6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,727.52	653.18	
33 42 31 00-0058	EA	7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	3,936.28	685.99	
33 42 31 00-0059	EA	7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,091.74	713.88	
33 42 31 00-0060	EA	8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,300.49	746.77	
33 42 31 00-0061	VLF	>8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	537.53	93.36	
33 42 31 00-0062	4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0063	EA	3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,668.68	489.03	
33 42 31 00-0064	EA	3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,835.82	516.68	
33 42 31 00-0065	EA	4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,054.74	552.44	
33 42 31 00-0066	EA	4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,453.65	611.07	
33 42 31 00-0067	EA	5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,686.51	648.09	
33 42 31 00-0068	EA	5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,866.16	680.11	
33 42 31 00-0069	EA	6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,099.45	717.13	
33 42 31 00-0070	EA	6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,279.09	749.24	
33 42 31 00-0071	EA	7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,511.94	786.26	
33 42 31 00-0072	EA	7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,690.51	818.28	
33 42 31 00-0073	EA	8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,924.87	855.30	
33 42 31 00-0074	VLF	>8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	615.65	106.94	
33 42 31 00-0075	5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0076	EA	4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	3,424.70	620.28	
33 42 31 00-0077	EA	4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	3,868.93	685.43	
33 42 31 00-0078	EA	5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,122.72	726.03	
33 42 31 00-0079	EA	5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,322.23	761.63	
33 42 31 00-0080	EA	6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,573.44	802.16	
33 42 31 00-0081	EA	6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	4,774.00	837.75	
33 42 31 00-0082	EA	7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,026.72	878.35	
33 42 31 00-0083	EA	7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,224.73	913.94	
33 42 31 00-0084	EA	8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,478.51	954.47	
33 42 31 00-0085	VLF	>8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	889.10	119.34	
33 42 31 00-0086	5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0087	EA	4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,812.35	691.72	
33 42 31 00-0088	EA	4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,439.04	783.01	
33 42 31 00-0089	EA	5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,720.78	828.14	
33 42 31 00-0090	EA	5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,948.25	868.58	
33 42 31 00-0091	EA	6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,231.48	914.02	
33 42 31 00-0092	EA	6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,460.02	954.47	
33 42 31 00-0093	EA	7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,741.77	999.91	
33 42 31 00-0094	EA	7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,969.22	1,040.35	
33 42 31 00-0095	EA	8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,250.97	1,085.80	
33 42 31 00-0096	VLF	>8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	781.37	135.70	
33 42 31 00-0097	6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0098	EA	4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	4,220.61	766.47	
33 42 31 00-0099	EA	4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	4,911.06	866.67	
33 42 31 00-0100	EA	5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,214.19	915.77	
33 42 31 00-0101	EA	5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,462.63	959.86	
33 42 31 00-0102	EA	6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	5,764.71	1,008.97	
33 42 31 00-0103	EA	6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,014.65	1,053.07	
33 42 31 00-0104	EA	7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,316.29	1,102.16	
33 42 31 00-0105	EA	7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,565.15	1,146.26	
33 42 31 00-0106	EA	8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,868.30	1,195.36	
33 42 31 00-0107	VLF	>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	858.58	149.45	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	4,646.90	844.82
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,575.03	978.77
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,908.72	1,033.12
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,189.12	1,082.46
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,522.80	1,136.72
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,803.20	1,186.14
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,136.88	1,240.41
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,417.28	1,289.75
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,752.46	1,344.09
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	969.02	168.04
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin.....	5,092.45	926.58
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,107.79	1,072.77
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,463.36	1,130.93
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,764.21	1,184.00
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,120.78	1,242.08
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,421.63	1,295.24
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,777.19	1,353.32
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,079.12	1,406.47
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,434.60	1,464.54
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,054.37	183.05
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	5,753.54	1,039.95
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,662.52	1,170.58
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,038.46	1,232.46
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,362.26	1,289.36
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,739.20	1,351.25
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,063.00	1,408.13
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,438.95	1,470.03
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,762.76	1,526.92
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,139.76	1,588.81
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,142.45	198.63
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin.....	6,256.16	1,131.48
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,237.52	1,272.20
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,634.99	1,337.82
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,980.68	1,398.53
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,378.07	1,464.15
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,721.62	1,524.86
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,121.15	1,590.48
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,466.84	1,651.19
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,857.18	1,716.81
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,233.03	214.60
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins.....	555.32	163.06
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins.....	768.03	244.60
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins.....	969.53	317.97
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,163.18	375.86
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,428.62	476.96
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins.....	1,633.04	550.33
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins.....	113.37	36.69
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin.....	633.91	181.41
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin.....	871.84	269.06
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin.....	1,096.39	354.66
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin.....	1,311.45	413.78
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin.....	1,619.88	529.95
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin.....	1,849.35	611.49
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin.....	128.41	44.03
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin.....	844.12	214.02
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin.....	1,145.11	316.34
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin.....	1,432.64	417.85
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin.....	1,784.31	521.80



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0174	EA 12' Deep, 3' Diameter Precast Catch Basin.....	2,105.52	622.08
33 42 31 00-0175	EA 14' Deep, 3' Diameter Precast Catch Basin.....	2,414.52	724.00
33 42 31 00-0176	VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	165.55	51.71
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0178	EA 4' Deep, 4' Diameter Precast Catch Basin.....	1,027.12	238.07
33 42 31 00-0179	EA 6' Deep, 4' Diameter Precast Catch Basin.....	1,331.10	326.13
33 42 31 00-0180	EA 8' Deep, 4' Diameter Precast Catch Basin.....	1,767.43	489.19
33 42 31 00-0181	EA 10' Deep, 4' Diameter Precast Catch Basin.....	2,205.38	611.49
33 42 31 00-0182	EA 12' Deep, 4' Diameter Precast Catch Basin.....	2,603.96	733.79
33 42 31 00-0183	EA 14' Deep, 4' Diameter Precast Catch Basin.....	2,988.56	856.08
33 42 31 00-0184	VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	204.39	61.14
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0186	EA 4' Deep, 5' Diameter Precast Catch Basin.....	1,381.15	326.13
33 42 31 00-0187	EA 6' Deep, 5' Diameter Precast Catch Basin.....	1,878.65	489.19
33 42 31 00-0188	EA 8' Deep, 5' Diameter Precast Catch Basin.....	2,378.57	652.25
33 42 31 00-0189	EA 10' Deep, 5' Diameter Precast Catch Basin.....	2,904.65	815.31
33 42 31 00-0190	EA 12' Deep, 5' Diameter Precast Catch Basin.....	3,422.02	978.38
33 42 31 00-0191	EA 14' Deep, 5' Diameter Precast Catch Basin.....	3,980.39	1,141.44
33 42 31 00-0192	VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	271.90	81.54
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0194	EA 4' Deep, 6' Diameter Precast Catch Basin.....	2,017.67	489.19
33 42 31 00-0195	EA 6' Deep, 6' Diameter Precast Catch Basin.....	2,715.18	733.79
33 42 31 00-0196	EA 8' Deep, 6' Diameter Precast Catch Basin.....	3,464.25	978.38
33 42 31 00-0197	EA 10' Deep, 6' Diameter Precast Catch Basin.....	4,316.42	1,222.98
33 42 31 00-0198	EA 12' Deep, 6' Diameter Precast Catch Basin.....	5,140.77	1,467.57
33 42 31 00-0199	EA 14' Deep, 6' Diameter Precast Catch Basin.....	5,943.71	1,712.17
33 42 31 00-0200	VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	405.09	122.30
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)			
33 42 31 00-0202	EA Single Or Double Wing Slab Top With Throat.....	1,149.28	529.95
33 42 31 00-0203	EA 4' x 4' Weir Box, Precast Catch Basin.....	579.35	65.22
33 42 31 00-0204	EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	316.09	69.30
33 42 31 00-0205	EA 3' Diameter, Up To 6" High, Precast Extension Ring	390.12	101.92
	For Each Additional Inch In Height, Add	48.02	
33 42 31 00-0206	EA 4' Diameter, Up To 6" High, Precast Extension Ring	459.57	122.30
	For Each Additional Inch In Height, Add	56.20	
33 42 31 00-0207	EA 5' Diameter, Up To 6" High, Precast Extension Ring	536.11	142.68
	For Each Additional Inch In Height, Add	65.60	
33 42 31 00-0208	EA 6' Diameter, Up To 6" High, Precast Extension Ring	663.86	203.83
	For Each Additional Inch In Height, Add	76.71	
33 42 31 00-0209	EA Adjust Existing Catch Basin Inlet Grate To Match Grade	489.16	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)			
33 42 31 00-0211	EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser	289.29	
33 42 31 00-0212	EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	322.24	
33 42 31 00-0213	EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	361.38	
33 42 31 00-0214	EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	311.34	
33 42 31 00-0215	EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	346.50	
33 42 31 00-0216	EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	389.88	
33 42 31 00-0217	EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	344.06	
33 42 31 00-0218	EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	375.32	
33 42 31 00-0219	EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	418.86	
33 42 31 00-0220 Catch Basin Frames And Covers (33 42 31 00-0001)			
33 42 31 00-0221 Cast Iron Frames And Covers (33 42 31 00-0220)			
33 42 31 00-0222	EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....	403.08	81.54
33 42 31 00-0223	EA 22" Diameter Cast Iron Catch Basin Frame And Cover	500.78	92.13
33 42 31 00-0224	EA 24" Diameter Cast Iron Catch Basin Frame And Cover	559.12	95.39
33 42 31 00-0225	EA 26" Diameter Cast Iron Catch Basin Frame And Cover	627.03	110.88
33 42 31 00-0226	EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....	725.02	126.38
33 42 31 00-0227	EA 32" Diameter Cast Iron Catch Basin Frame And Cover	1,119.35	132.08
33 42 31 00-0228	EA 16" x 16" Cast Iron Catch Basin Frame And Cover	620.78	100.29
33 42 31 00-0229	EA 18" x 24" Cast Iron Catch Basin Frame And Cover	797.81	115.78
33 42 31 00-0230	EA 20" x 27" Cast Iron Catch Basin Frame And Cover	894.61	120.67
33 42 31 00-0231	EA 23" x 23" Cast Iron Catch Basin Frame And Cover	850.27	120.67
33 42 31 00-0232	EA 24" x 24" Cast Iron Catch Basin Frame And Cover	879.54	125.55
33 42 31 00-0233	EA 26" x 26" Cast Iron Catch Basin Frame And Cover	941.33	130.45
33 42 31 00-0234	EA 24" x 36" Cast Iron Catch Basin Frame And Cover	1,119.37	140.24

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0235		Area Yard Drain (33 42 31 00-0001) See CSI section 22 14 26 16-0001 for drains.		
33 42 31 00-0236		Ductile Iron Grates (33 42 31 00-0235) Note: Not for traffic loading.		
33 42 31 00-0237	EA	8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	107.64	32.58
33 42 31 00-0238	EA	10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	127.62	34.75
33 42 31 00-0239	EA	12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	265.67	43.44
33 42 31 00-0240	EA	15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	317.62	52.13
33 42 31 00-0241		Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0242		Type OS Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0243	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,255.04	
33 42 31 00-0244	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,621.63	
33 42 31 00-0245	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,962.70	
33 42 31 00-0246	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,278.24	
33 42 31 00-0247	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,568.24	
33 42 31 00-0248	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,832.72	
33 42 31 00-0249	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	5,215.23	
33 42 31 00-0250	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,082.20	
33 42 31 00-0251	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,883.50	
33 42 31 00-0252	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,620.73	
33 42 31 00-0253	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,333.44	
33 42 31 00-0254	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,990.49	
33 42 31 00-0255	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,591.90	
33 42 31 00-0256		Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0257	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,070.68	
33 42 31 00-0258	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,413.93	
33 42 31 00-0259	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,731.66	
33 42 31 00-0260	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,023.85	
33 42 31 00-0261	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,289.69	
33 42 31 00-0262	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,530.81	
33 42 31 00-0263	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,872.26	
33 42 31 00-0264	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,719.24	
33 42 31 00-0265	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,500.52	
33 42 31 00-0266	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,216.94	
33 42 31 00-0267	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,912.48	
33 42 31 00-0268	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,552.39	
33 42 31 00-0269	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,136.66	
33 42 31 00-0270		Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0271	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,822.36	
33 42 31 00-0272	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,144.28	
33 42 31 00-0273	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,439.84	
33 42 31 00-0274	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,710.69	
33 42 31 00-0275	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,955.20	
33 42 31 00-0276	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,174.17	
33 42 31 00-0277	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,529.30	
33 42 31 00-0278	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,355.45	
33 42 31 00-0279	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,117.54	
33 42 31 00-0280	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,813.95	
33 42 31 00-0281	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,491.54	
33 42 31 00-0282	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,114.31	
33 42 31 00-0283	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,680.60	
33 42 31 00-0284		Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0285	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,893.90	
33 42 31 00-0286	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,184.45	
33 42 31 00-0287	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,449.45	
33 42 31 00-0288	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,688.93	
33 42 31 00-0289	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,902.87	
33 42 31 00-0290	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,091.28	
33 42 31 00-0291	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,460.11	
33 42 31 00-0292	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,257.84	
33 42 31 00-0293	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,990.70	
33 42 31 00-0294	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,658.71	
33 42 31 00-0295	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,312.74	
33 42 31 00-0296	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,910.34	
33 42 31 00-0297	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,452.29	
33 42 31 00-0298		Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0299	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,068.96	
33 42 31 00-0300	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,296.99	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0301	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,499.45	
33 42 31 00-0302	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,676.40	
33 42 31 00-0303	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,827.00	
33 42 31 00-0304	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,952.88	
33 42 31 00-0305	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,280.65	
33 42 31 00-0306	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,022.45	
33 42 31 00-0307	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,699.39	
33 42 31 00-0308	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,311.46	
33 42 31 00-0309	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,917.50	
33 42 31 00-0310	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,467.08	
33 42 31 00-0311	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,961.01	
33 42 31 00-0312 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0313	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,726.40	
33 42 31 00-0314	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,105.44	
33 42 31 00-0315	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,455.24	
33 42 31 00-0316	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,775.79	
33 42 31 00-0317	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,067.89	
33 42 31 00-0318	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,331.58	
33 42 31 00-0319	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,789.38	
33 42 31 00-0320	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,732.80	
33 42 31 00-0321	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,603.30	
33 42 31 00-0322	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,400.08	
33 42 31 00-0323	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,174.98	
33 42 31 00-0324	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,887.33	
33 42 31 00-0325	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,536.29	
33 42 31 00-0326 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0327	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,542.06	
33 42 31 00-0328	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,896.93	
33 42 31 00-0329	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,223.39	
33 42 31 00-0330	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,521.40	
33 42 31 00-0331	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,790.16	
33 42 31 00-0332	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,029.68	
33 42 31 00-0333	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,487.48	
33 42 31 00-0334	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,409.17	
33 42 31 00-0335	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,257.97	
33 42 31 00-0336	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,033.84	
33 42 31 00-0337	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,790.08	
33 42 31 00-0338	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,483.74	
33 42 31 00-0339	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,114.83	
33 42 31 00-0340 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0341	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,519.34	
33 42 31 00-0342	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,817.59	
33 42 31 00-0343	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,094.57	
33 42 31 00-0344	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,351.93	
33 42 31 00-0345	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,589.64	
33 42 31 00-0346	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,806.10	
33 42 31 00-0347 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0348	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,095.10	
33 42 31 00-0349	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,430.62	
33 42 31 00-0350	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,742.80	
33 42 31 00-0351	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,031.62	
33 42 31 00-0352	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,297.11	
33 42 31 00-0353	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,538.42	
33 42 31 00-0354	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,790.89	
33 42 31 00-0355	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,590.84	
33 42 31 00-0356	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,331.12	
33 42 31 00-0357	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,011.73	
33 42 31 00-0358	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,669.75	
33 42 31 00-0359	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,276.61	
33 42 31 00-0360	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,831.50	
33 42 31 00-0361 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0362	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,647.30	
33 42 31 00-0363	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,941.52	
33 42 31 00-0364	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,215.30	
33 42 31 00-0365	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,469.45	
33 42 31 00-0366	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,702.34	
33 42 31 00-0367	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,915.60	
33 42 31 00-0368 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0241)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0369 EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,031.12	
33 42 31 00-0370 EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,368.67	
33 42 31 00-0371 EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,682.84	
33 42 31 00-0372 EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,972.86	
33 42 31 00-0373 EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,240.35	
33 42 31 00-0374 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,483.66	
33 42 31 00-0375 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,763.52	
33 42 31 00-0376 EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,564.87	
33 42 31 00-0377 EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,305.76	
33 42 31 00-0378 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,986.97	
33 42 31 00-0379 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,645.46	
33 42 31 00-0380 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,252.79	
33 42 31 00-0381 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,808.96	
33 42 31 00-0382 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0383 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,095.10	
33 42 31 00-0384 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,430.62	
33 42 31 00-0385 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,742.80	
33 42 31 00-0386 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,031.62	
33 42 31 00-0387 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,297.11	
33 42 31 00-0388 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,538.42	
33 42 31 00-0389 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	4,790.89	
33 42 31 00-0390 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	5,590.84	
33 42 31 00-0391 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,331.12	
33 42 31 00-0392 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,011.73	
33 42 31 00-0393 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,669.75	
33 42 31 00-0394 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,276.61	
33 42 31 00-0395 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,831.50	
33 42 31 00-0396 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0397 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,631.30	
33 42 31 00-0398 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,925.82	
33 42 31 00-0399 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,200.72	
33 42 31 00-0400 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,454.35	
33 42 31 00-0401 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,688.35	
33 42 31 00-0402 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,901.91	
33 42 31 00-0403 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0404 EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,663.29	
33 42 31 00-0405 EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,957.21	
33 42 31 00-0406 EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,230.70	
33 42 31 00-0407 EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,483.74	
33 42 31 00-0408 EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,716.33	
33 42 31 00-0409 EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,929.29	
33 42 31 00-0410 Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0411 EA 3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,782.80	
33 42 31 00-0412 EA 4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,242.93	
33 42 31 00-0413 EA 5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,703.88	
33 42 31 00-0414 EA 6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,067.52	
33 42 31 00-0415 EA 7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,431.18	
33 42 31 00-0416 EA 8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,763.52	
33 42 31 00-0417 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0418 EA 3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,374.55	
33 42 31 00-0419 EA 4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,875.60	
33 42 31 00-0420 EA 5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,340.67	
33 42 31 00-0421 EA 6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,770.56	
33 42 31 00-0422 EA 7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,164.47	
33 42 31 00-0423 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,523.21	
33 42 31 00-0424 EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,391.66	
33 42 31 00-0425 EA 10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,571.08	
33 42 31 00-0426 EA 12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,661.25	
33 42 31 00-0427 EA 14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,662.99	
33 42 31 00-0428 EA 16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,632.91	
33 42 31 00-0429 EA 18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,526.23	
33 42 31 00-0430 EA 20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,342.92	
33 42 31 00-0431 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0241)		
33 42 31 00-0432 EA 3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,766.81	
33 42 31 00-0433 EA 4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,227.23	
33 42 31 00-0434 EA 5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,656.30	
33 42 31 00-0435 EA 6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,053.23	
33 42 31 00-0436 EA 7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,417.20	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0437	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,749.82	
33 42 31 00-0438 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0439	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,486.51	
33 42 31 00-0440	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,983.85	
33 42 31 00-0441	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,446.01	
33 42 31 00-0442	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,872.17	
33 42 31 00-0443	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,263.19	
33 42 31 00-0444	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,619.03	
33 42 31 00-0445	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,405.36	
33 42 31 00-0446	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,584.47	
33 42 31 00-0447	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,674.34	
33 42 31 00-0448	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,674.96	
33 42 31 00-0449	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,644.65	
33 42 31 00-0450	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,537.72	
33 42 31 00-0451	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,354.18	
33 42 31 00-0452 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0453	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	1,983.14	
33 42 31 00-0454	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,306.69	
33 42 31 00-0455	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,607.48	
33 42 31 00-0456	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,885.52	
33 42 31 00-0457	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,140.81	
33 42 31 00-0458	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,374.16	
33 42 31 00-0459	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	4,640.31	
33 42 31 00-0460	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,416.37	
33 42 31 00-0461	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,133.24	
33 42 31 00-0462	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,792.59	
33 42 31 00-0463	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,431.09	
33 42 31 00-0464	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,018.66	
33 42 31 00-0465	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,556.94	
33 42 31 00-0466 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0241)				
33 42 31 00-0467	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,590.88	
33 42 31 00-0468	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,016.22	
33 42 31 00-0469	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,411.77	
33 42 31 00-0470	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,778.33	
33 42 31 00-0471	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,114.31	
33 42 31 00-0472	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,421.30	
33 42 31 00-0473	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,968.08	
33 42 31 00-0474	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,968.37	
33 42 31 00-0475	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,893.48	
33 42 31 00-0476	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,744.26	
33 42 31 00-0477	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,567.11	
33 42 31 00-0478	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,325.42	
33 42 31 00-0479	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,019.22	
33 42 33 Stormwater Curbside Drains and Inlets (33 42)				
33 42 33 00-0001		Curb Inlet Frames And Covers (33 42 33)		
33 42 33 00-0002		Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)		
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	762.54	95.39
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	817.12	110.88
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	846.17	110.88
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	927.06	130.45
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	921.90	139.42
33 42 36 Stormwater Trench Drains (33 42)				
33 42 36 00-0001		Modular Trench Drains (33 42 36)		
33 42 36 00-0002		Modular Trench Drains (33 42 36 00-0001)		
		Note: Excludes grates. See CSI section 33 42 36 00-0096 for grates.		
33 42 36 00-0003		6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004		6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005		6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006	LF	6" Wide, High Density Polyethylene, Modular Trench Drain	77.30	13.04
		For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	29.64	
		For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	59.29	
		For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	94.86	
		For Type 304 Stainless Steel Top Veneer Frame, Add	23.72	
		For Aluminum Veneer Bronze Anodized Frame, Add	11.86	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0007		Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008	EA	Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	37.65	
33 42 36 00-0009	EA	No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	45.80	
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	45.80	
33 42 36 00-0011		Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0012	EA	Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	60.85	
33 42 36 00-0013	EA	Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	60.85	
33 42 36 00-0014	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	277.92	
33 42 36 00-0015	EA	Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	515.08	
33 42 36 00-0016	EA	Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	59.29	
33 42 36 00-0017		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0018		6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0017)		
33 42 36 00-0019	LF	6" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	105.16	13.04
		For Black Acid Resistant Coated Frame, Add	22.53	
		For Galvanized Top Frame Assembly, Add	22.53	
		For Type 304 Stainless Steel Top Frame Assembly, Add	83.01	
33 42 36 00-0020		Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0017)		
33 42 36 00-0021	EA	Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	40.03	
33 42 36 00-0022	EA	No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	48.18	
33 42 36 00-0023	EA	No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	48.18	
33 42 36 00-0024		Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0017)		
33 42 36 00-0025	EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	60.85	
33 42 36 00-0026	EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	60.85	
33 42 36 00-0027	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	277.92	
33 42 36 00-0028	EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	515.08	
33 42 36 00-0029	EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	59.29	
33 42 36 00-0030		6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0031		6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0030)		
33 42 36 00-0032	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain.....	131.25	13.04
		For Black Acid Resistant Coated Frame, Add	22.53	
		For Galvanized Top Frame Assembly, Add	22.53	
		For Type 304 Stainless Steel Top Frame Assembly, Add	83.01	
33 42 36 00-0033		Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0030)		
33 42 36 00-0034	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	59.00	
33 42 36 00-0035	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	67.15	
33 42 36 00-0036	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	67.15	
33 42 36 00-0037		Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0030)		
33 42 36 00-0038	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	60.85	
33 42 36 00-0039	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	60.85	
33 42 36 00-0040	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	277.92	
33 42 36 00-0041	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	515.08	
33 42 36 00-0042	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains.....	59.29	
33 42 36 00-0043		12" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0044		12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0043)		
33 42 36 00-0045		12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0044)		
33 42 36 00-0046	LF	12" Wide, High Density Polyethylene, Modular Trench Drain.....	136.67	17.94
		For Acid Resistant Coated Top Frame, Add	30.83	
		For Galvanized Welded Frame Assembly, Add	32.31	
		For Type 304 Stainless Steel Top Frame, Add	184.98	
33 42 36 00-0047		Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0044)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0048	EA	End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	70.36	
33 42 36 00-0049	EA	No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	81.23	
33 42 36 00-0050	EA	No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	81.23	
33 42 36 00-0051		Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains <i>(33 42 36 00-0044)</i>		
33 42 36 00-0052	EA	Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	105.66	
33 42 36 00-0053	EA	Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	135.30	
33 42 36 00-0054	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	537.03	
33 42 36 00-0055	EA	Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	1,011.35	
33 42 36 00-0056	EA	Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	118.58	
33 42 36 00-0057		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <i>(33 42 36 00-0043)</i>		
33 42 36 00-0058		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <i>(33 42 36 00-0057)</i>		
33 42 36 00-0059	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	166.32	17.94
		<i>For Acid Resistant Coated Top Frame, Add</i>	30.83	
		<i>For Galvanized Welded Frame Assembly, Add</i>	32.31	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	184.98	
33 42 36 00-0060		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <i>(33 42 36 00-0057)</i>		
33 42 36 00-0061	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.73	
33 42 36 00-0062	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	83.60	
33 42 36 00-0063	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	83.60	
33 42 36 00-0064		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <i>(33 42 36 00-0057)</i>		
33 42 36 00-0065	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	105.66	
33 42 36 00-0066	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	135.30	
33 42 36 00-0067	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	537.03	
33 42 36 00-0068	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	1,011.35	
33 42 36 00-0069	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	118.58	
33 42 36 00-0070		12" Wide, Vinylester Fiberglass, Modular Trench Drains <i>(33 42 36 00-0043)</i>		
33 42 36 00-0071		12" Wide, Vinylester Fiberglass, Modular Trench Drains <i>(33 42 36 00-0070)</i>		
33 42 36 00-0072	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	225.61	17.94
		<i>For Acid Resistant Coated Top Frame, Add</i>	30.83	
		<i>For Galvanized Welded Frame Assembly, Add</i>	32.31	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	184.98	
33 42 36 00-0073		Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <i>(33 42 36 00-0070)</i>		
33 42 36 00-0074	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	161.66	
33 42 36 00-0075	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	172.53	
33 42 36 00-0076	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	172.53	
33 42 36 00-0077		Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains <i>(33 42 36 00-0070)</i>		
33 42 36 00-0078	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	105.66	
33 42 36 00-0079	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	135.30	
33 42 36 00-0080	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	537.03	
33 42 36 00-0081	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	1,011.35	
33 42 36 00-0082	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	118.58	
33 42 36 00-0083		23" Wide, Modular Trench Drains <i>(33 42 36 00-0002)</i>		
33 42 36 00-0084		23" Wide, High Density Polyethylene, Modular Trench Drains <i>(33 42 36 00-0083)</i>		
33 42 36 00-0085		23" Wide, High Density Polyethylene, Modular Trench Drains <i>(33 42 36 00-0084)</i>		
33 42 36 00-0086	LF	23" Wide, High Density Polyethylene, Modular Trench Drain	190.13	24.46
		<i>For Acid Resistant Coated Frame, Add</i>	46.25	
		<i>For Galvanized Frame Assembly, Add</i>	46.25	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	284.59	
33 42 36 00-0087		Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains <i>(33 42 36 00-0084)</i>		
33 42 36 00-0088	EA	End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	199.75	
33 42 36 00-0089	EA	No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	309.63	
33 42 36 00-0090	EA	No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	309.63	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0091	Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0084)			
33 42 36 00-0092	EA	Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	231.98	
33 42 36 00-0093	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,050.55	
33 42 36 00-0094	EA	Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,999.19	
33 42 36 00-0095	EA	Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains	237.16	
33 42 36 00-0096	Modular Trench Drain Grates (33 42 36 00-0001)			
33 42 36 00-0097	6" Wide, Modular Trench Drain Grates (33 42 36 00-0096)			
33 42 36 00-0098	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	61.00	2.44
33 42 36 00-0099	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	52.05	2.44
33 42 36 00-0100	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	54.54	2.44
33 42 36 00-0101	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	47.95	2.44
33 42 36 00-0102	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	51.51	2.44
33 42 36 00-0103	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	52.10	2.44
33 42 36 00-0104	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate.....	52.10	2.44
33 42 36 00-0105	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	51.51	2.44
33 42 36 00-0106	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	45.58	2.44
33 42 36 00-0107	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	45.58	2.44
33 42 36 00-0108	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	48.31	2.44
33 42 36 00-0109	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	48.31	2.44
33 42 36 00-0110	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	62.18	2.44
33 42 36 00-0111	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	62.18	2.44
33 42 36 00-0112	LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	111.99	2.44
33 42 36 00-0113	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	111.99	2.44
33 42 36 00-0114	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	307.64	2.44
33 42 36 00-0115	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate.....	43.21	2.44
33 42 36 00-0116	LF	6" Wide, Fiberglass, Modular Trench Drain Grate	90.64	2.44
33 42 36 00-0117	12" Wide, Modular Trench Drain Grates (33 42 36 00-0096)			
33 42 36 00-0118	LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	164.56	2.65
33 42 36 00-0119	LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	157.45	2.65
33 42 36 00-0120	LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	137.29	2.65
33 42 36 00-0121	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	144.11	2.65
33 42 36 00-0122	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	124.84	2.65
33 42 36 00-0123	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	241.94	2.65
33 42 36 00-0124	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	241.94	2.65
33 42 36 00-0125	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	308.04	2.65
33 42 36 00-0126	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	308.04	2.65
33 42 36 00-0127	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	392.53	2.65
33 42 36 00-0128	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	392.53	2.65
33 42 36 00-0129	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	372.67	2.65
33 42 36 00-0130	LF	12" Wide, Fiberglass, Modular Trench Drain Grate	177.31	2.65
33 42 36 00-0131	23" Wide, Modular Trench Drain Grates (33 42 36 00-0096)			
33 42 36 00-0132	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	258.65	2.85
33 42 36 00-0133	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	218.33	2.85
33 42 36 00-0134	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	336.91	2.85
33 42 36 00-0135	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	250.35	2.85
33 44	Storm Utility Water Drains (33 40)			
33 44 36	Oil and Stormwater Separators (33 44)			
33 44 36 00-0001	Oil/Water Separator (33 44 36)			
	Note: Complete with internal sensors and detectors.			
33 44 36 00-0002	Coalescing Oil Water Separator (33 44 36 00-0001)			
	Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.			
33 44 36 00-0003	Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)			
33 44 36 00-0004	EA	550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	11,437.77	
	Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.			
	For Interior Polyurethane Coating, Add		711.00	
33 44 36 00-0005	EA	1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	13,520.27	
	Note: HTC-G 1000. 4' diameter x 14' long tank.			
	For Interior Polyurethane Coating, Add		893.70	
33 44 36 00-0006	EA	2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways	15,762.20	
	Note: HTC-G 2000. 5'-4" diameter x 15' long tank.			
	For Interior Polyurethane Coating, Add		1,340.10	
33 44 36 00-0007	Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)			



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Storm Utility Water Drains	33 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0008 EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank. <i>For Interior Polyurethane Coating, Add</i>	16,590.97 711.00	
33 44 36 00-0009 EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank. <i>For Interior Polyurethane Coating, Add</i>	18,759.08 893.70	
33 44 36 00-0010 EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank. <i>For Interior Polyurethane Coating, Add</i>	22,450.58 1,340.10	
33 44 36 00-0011 EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank. <i>For Interior Polyurethane Coating, Add</i>	25,792.69 1,550.70	
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000. 6' diameter x 28'-8" long tank. <i>For Interior Polyurethane Coating, Add</i>	33,394.07 2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	675.46	
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator..... Note: HTAP2.	909.30	
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	519.70	
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	394.92	
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	160.95	
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	2,131.61	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	4,263.23	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	6,394.91	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	417.39	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	483.95	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	967.89	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	2,075.76	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	573.37	
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	738.37	
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,007.36	
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator	1,785.18	
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator	2,278.07	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator	2,843.75	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator	3,569.58	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	693.59	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	845.41	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,327.90	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	661.35	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	802.77	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	952.51	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	56.15	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	63.43	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	4,905.19	615.47
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,130.27	615.47
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	4,926.03	615.47
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,214.67	615.47
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	5,162.57	615.47
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,353.26	615.47
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	5,211.55	615.47
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,499.15	615.47
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase.....	5,557.51	820.80
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,798.22	820.80
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase.....	5,621.07	820.80
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,967.03	820.80
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase.....	6,166.06	820.80
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,406.77	820.80
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,217.12	820.80
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase.....	6,564.12	820.80

33 Utilities**33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	15.63	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	29.18	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	256.78	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	302.63	
33 46 Stormwater Management (33 40)		
33 46 51 Stormwater Leaching Pits (33 46)		
33 46 51 00-0001 Drainage Wells (33 46 51)		
Note: Includes augering hole.		
33 46 51 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner.....	22.19	
33 46 51 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner.....	26.76	
33 46 51 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner.....	35.19	
33 50 Hydrocarbon Utilities (33)		
33 52 Hydrocarbon Transmission and Distribution (33 50)		
33 52 16 Gas Hydrocarbon Piping (33 52)		
33 52 16 13 Steel Natural Gas Piping (33 52 16)		
See CSI section 23 05 23 00-0000 for gas valves.		
33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)		
Note: Excludes excavation and backfill.		
33 52 16 13-0002 Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped (33 52 16 13-0001)		
33 52 16 13-0003 LF 1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	12.14	2.64
33 52 16 13-0004 LF 3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	13.72	2.91
33 52 16 13-0005 LF 1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	15.02	2.99
33 52 16 13-0006 LF 1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	15.41	3.06
33 52 16 13-0007 LF 1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	15.84	3.10
33 52 16 13-0008 LF 2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	16.86	3.32
33 52 16 13-0009 LF 2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	21.05	3.62
33 52 16 13-0010 LF 3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	26.35	4.56
33 52 16 13-0011 LF 4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	34.31	5.51
33 52 16 13-0012 LF 5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	44.35	6.39
33 52 16 13-0013 LF 6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	55.34	7.80
33 52 16 13-0014 LF 8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	78.05	10.02
33 52 16 13-0015 Gas Line Taps (33 52 16 13-0001)		
Note: Includes material to tap into main and gas valve.		
33 52 16 13-0016 Polyethylene, 60 PSI (33 52 16 13-0015)		
33 52 16 13-0017 EA 2" Polyethylene Hot Tap, With Valve.....	1,043.74	
33 52 16 13-0018 EA 2-1/2" Polyethylene Hot Tap, With Valve.....	1,205.25	
33 52 16 13-0019 EA 3" Polyethylene Hot Tap, With Valve.....	1,283.52	
33 52 16 13-0020 EA 4" Polyethylene Hot Tap, With Valve.....	1,869.46	
33 52 16 13-0021 EA 6" Polyethylene Hot Tap, With Valve.....	2,825.92	
33 52 16 13-0022 Steel, Schedule 40 (33 52 16 13-0015)		
Note: For punch steel service tee.		
33 52 16 13-0023 EA 1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,552.58	
33 52 16 13-0024 EA 3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,578.75	
33 52 16 13-0025 EA 3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,620.56	
33 52 16 13-0026 EA 3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,660.55	
33 52 16 13-0027 EA 1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,686.59	
33 52 16 13-0028 EA 1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,828.84	
33 52 16 13-0029 EA 1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	1,880.70	
33 52 16 13-0030 Protective Pipe And Fitting Wrap (33 52 16 13-0001)		
Note: Includes cleaning and priming pipe.		
33 52 16 13-0031 Corrosion Protection Pipe Wrap For Pipe (33 52 16 13-0030)		
Note: Field applied.		
33 52 16 13-0032 LF 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	3.15	
33 52 16 13-0033 LF 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	3.33	
33 52 16 13-0034 LF 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	3.54	



		Utilities	33	CS
		Hydrocarbon Utilities	33 50	
		Hydrocarbon Transmission and Distribution	33 52	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 52 16 13-0035	LF	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	3.96	
33 52 16 13-0036	LF	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.28	
33 52 16 13-0037	LF	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.91	
33 52 16 13-0038	LF	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	5.90	
33 52 16 13-0039	LF	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	7.26	
33 52 16 13-0040	LF	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	9.08	
33 52 16 13-0041	LF	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	11.96	
33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings (33 52 16 13-0030)				
Note: Field applied.				
33 52 16 13-0043	EA	1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	18.79	
33 52 16 13-0044	EA	3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	18.79	
33 52 16 13-0045	EA	1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	23.25	
33 52 16 13-0046	EA	1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	26.08	
33 52 16 13-0047	EA	1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	26.08	
33 52 16 13-0048	EA	2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	30.86	
33 52 16 13-0049	EA	2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	41.26	
33 52 16 13-0050	EA	3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	55.63	
33 52 16 13-0051	EA	4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	56.17	
33 52 16 13-0052	EA	6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	64.50	
33 52 16 13-0053 Service Fittings (33 52 16 13-0001)				
33 52 16 13-0054 Brass Fittings (33 52 16 13-0053)				
33 52 16 13-0055	EA	1/2" X 2" Long Nipples, Threaded Both Ends, Brass	29.18	
33 52 16 13-0056	EA	3/4" X 2" Long Nipples, Threaded Both Ends, Brass	33.28	
33 52 16 13-0057	EA	1" X 2" Long Nipples, Threaded Both Ends, Brass	41.24	
33 52 16 13-0058	EA	1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass	49.74	
33 52 16 13-0059	EA	1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass	55.13	
33 52 16 13-0060	EA	2" X 2" Long Nipples, Threaded Both Ends, Brass	68.76	
33 52 16 13-0061	EA	1/2" 90 Degree Elbow, Brass.....	26.11	
33 52 16 13-0062	EA	3/4" 90 Degree Elbow, Brass.....	29.44	
33 52 16 13-0063	EA	1" 90 Degree Elbow, Brass.....	36.84	
33 52 16 13-0064	EA	1-1/4" 90 Degree Elbow, Brass.....	45.44	
33 52 16 13-0065	EA	1-1/2" 90 Degree Elbow, Brass.....	50.93	
33 52 16 13-0066	EA	2" 90 Degree Elbow, Brass.....	64.30	
33 52 16 13-0067	EA	1/2" Diameter Chrome Plated Nipple	22.37	
33 52 16 13-0068	EA	3/4" Diameter Chrome Plated Nipple	28.50	
33 52 16 13-0069	EA	1" Diameter Chrome Plated Nipple	37.09	
33 52 16 13-0070	EA	1-1/4" Diameter Chrome Plated Nipple.....	52.26	
33 52 16 13-0071	EA	1-1/2" Diameter Chrome Plated Nipple.....	62.45	
33 52 16 13-0072	EA	2" Diameter Chrome Plated Nipple.....	81.89	
33 52 16 13-0073 Anodless Gas Riser (33 52 16 13-0053)				
33 52 16 13-0074	EA	3/4" Anodless Gas Riser.....	72.78	
33 52 16 13-0075	EA	1" Anodless Gas Riser.....	88.90	
33 52 16 13-0076	EA	1-1/4" Anodless Gas Riser.....	101.97	
33 52 16 13-0077	EA	1-1/2" Anodless Gas Riser.....	122.89	
33 52 16 13-0078	EA	2" Anodless Gas Riser.....	138.81	
33 52 16 13-0079 Brass Service Adapter (33 52 16 13-0053)				
33 52 16 13-0080	EA	1/2" Brass Service Adapter	56.42	
33 52 16 13-0081	EA	3/4" Brass Service Adapter	62.08	
33 52 16 13-0082	EA	1" Brass Service Adapter	73.81	
33 52 16 13-0083	EA	1-1/4" Brass Service Adapter.....	83.51	
33 52 16 13-0084	EA	1-1/2" Brass Service Adapter.....	94.10	
33 52 16 13-0085	EA	2" Brass Service Adapter	106.20	
33 52 16 13-0086	EA	2-1/2" Brass Service Adapter.....	156.11	
33 52 16 13-0087	EA	3" Brass Service Adapter	189.25	
33 52 16 13-0088	EA	4" Brass Service Adapter.....	263.79	
33 52 16 23 Medium Density Polyethylene Piping for Natural Gas (33 52 16)				
33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping (33 52 16 23)				
Note: 60 PSI, PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.				
33 52 16 23-0002	LF	1/2" DR 9 (200 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	3.41	1.64
For Colors, Add			0.03	
33 52 16 23-0003	LF	3/4" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	3.72	1.75
For DR 13.5 (128 PSI), Deduct			-0.05	
For Colors, Add			0.03	
33 52 16 23-0004	LF	1" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.05	1.87
For DR 13.5 (128 PSI), Deduct			-0.06	
For Colors, Add			0.04	
33 52 16 23-0005	LF	1-1/4" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	4.39	1.99
For DR 13.5 (128 PSI), Deduct			-0.07	
For Colors, Add			0.05	

33 Utilities**33 50 Hydrocarbon Utilities****33 52 Hydrocarbon Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 23-0006 LF 1-1/2" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	4.89	2.40
For DR 13.5 (128 PSI), Deduct	-0.11	
For Colors, Add	0.07	
33 52 16 23-0007 LF 2" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	5.39	2.61
For DR 13.5 (128 PSI), Deduct	-0.14	
For DR 15.5 (110 PSI), Deduct	-0.26	
For Colors, Add	0.09	
33 52 16 23-0008 LF 2-1/2" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	6.36	3.05
For DR 13.5 (128 PSI), Deduct	-0.23	
For DR 15.5 (110 PSI), Deduct	-0.42	
For Colors, Add	0.15	
33 52 16 23-0009 LF 3" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	7.52	3.63
For DR 13.5 (128 PSI), Deduct	-0.31	
For DR 15.5 (110 PSI), Deduct	-0.58	
For Colors, Add	0.20	
33 52 16 23-0010 LF 4" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	10.83	3.72
For DR 13.5 (128 PSI), Deduct	-0.58	
For DR 15.5 (110 PSI), Deduct	-1.07	
For Colors, Add	0.38	
33 52 16 23-0011 LF 5" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	19.04	3.72
For DR 13.5 (128 PSI), Deduct	-0.81	
For DR 15.5 (110 PSI), Deduct	-1.49	
For Colors, Add	0.52	
33 52 16 23-0012 LF 6" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	15.79	3.72
For DR 13.5 (128 PSI), Deduct	-1.04	
For DR 15.5 (110 PSI), Deduct	-1.90	
For Colors, Add	0.67	
33 52 16 23-0013 LF 8" DR 11 (160 PSI) Medium Density Polyethylene (MDPE) Gas Distribution Pipe.....	22.27	4.65
For DR 13.5 (128 PSI), Deduct	-1.72	
For DR 15.5 (110 PSI), Deduct	-3.17	
For Colors, Add	1.11	

33 53 Hydrocarbon Utility Pressure Regulation (33 50)**33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)****33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)**

33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End.....	157.07	17.83
33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End.....	161.11	17.83
33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End.....	170.83	21.17
33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End.....	499.27	24.51
33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End.....	550.38	37.95
33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End.....	1,512.72	85.13
33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End.....	2,089.79	112.81

33 56 Hydrocarbon Storage (33 50)**33 56 13 Aboveground Hydrocarbon Storage Tanks (33 56)**

See CSI section 23 13 23 00-0000 for aboveground storage tanks.

33 56 33 Underground Hydrocarbon Storage (33 56)

See CSI section 23 13 13 00-0000 for underground storage tanks.

33 59 Hydrocarbon Utility Metering (33 50)**33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)****33 59 11 00-0001 Diaphragm Meters (33 59 11)**Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections.
Excludes pressure and temperature compensation.

33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....	429.79	69.75
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....	796.24	106.66
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	905.23	106.66
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....	1,804.87	133.33
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	2,066.64	164.10
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	2,583.66	133.33
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	2,904.70	164.10
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	3,767.78	174.36
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	



	Utilities	33	
	Hydrocarbon Utilities	33 50	CS
	Hydrocarbon Utility Metering	33 59	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 59 11 00-0010	EA		2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	5,270.99 8.40 26.50	205.12
33 59 11 00-0011	EA		5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	8,096.86 8.40 26.50	338.45

33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	6,520.73	321.37
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	7,732.86	373.20
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	11,572.73	469.91
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	21,332.95	563.89
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	33,178.58	657.87

33 60 Hydronic And Steam Energy Utilities (33)

33 61 Hydronic Energy Distribution (33 60)

33 61 13 Buried Hydronic Energy Distribution (33 61)

33 61 13 00-0001 Glass Lined Steel Piping (33 61 13)

33 61 13 00-0002 Glass Lined Steel Pipe (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0003	EA	4" X 1' Glass Lined Steel Pipe	1,073.13	
33 61 13 00-0004	EA	4" X 2' Glass Lined Steel Pipe	1,184.63	
33 61 13 00-0005	EA	4" X 3' Glass Lined Steel Pipe	1,184.63	
33 61 13 00-0006	EA	4" X 4' Glass Lined Steel Pipe	1,407.61	
33 61 13 00-0007	EA	4" X 5' Glass Lined Steel Pipe	1,999.92	
33 61 13 00-0008	EA	4" X 10' Glass Lined Steel Pipe	2,315.81	
33 61 13 00-0009	EA	6" X 1' Glass Lined Steel Pipe	898.93	
33 61 13 00-0010	EA	6" X 2' Glass Lined Steel Pipe	1,944.17	
33 61 13 00-0011	EA	6" X 3' Glass Lined Steel Pipe	1,944.17	
33 61 13 00-0012	EA	6" X 4' Glass Lined Steel Pipe	2,202.00	
33 61 13 00-0013	EA	6" X 5' Glass Lined Steel Pipe	3,551.52	
33 61 13 00-0014	EA	6" X 10' Glass Lined Steel Pipe	4,110.38	
33 61 13 00-0015	EA	8" X 1' Glass Lined Steel Pipe	2,217.79	
33 61 13 00-0016	EA	8" X 2' Glass Lined Steel Pipe	2,670.73	
33 61 13 00-0017	EA	8" X 3' Glass Lined Steel Pipe	2,670.73	
33 61 13 00-0018	EA	8" X 4' Glass Lined Steel Pipe	3,071.18	
33 61 13 00-0019	EA	8" X 5' Glass Lined Steel Pipe	4,159.16	
33 61 13 00-0020	EA	8" X 10' Glass Lined Steel Pipe	4,726.85	
33 61 13 00-0021	EA	12" X 1' Glass Lined Steel Pipe	6,015.42	
33 61 13 00-0022	EA	12" X 2' Glass Lined Steel Pipe	6,015.42	
33 61 13 00-0023	EA	12" X 3' Glass Lined Steel Pipe	6,233.76	
33 61 13 00-0024	EA	12" X 4' Glass Lined Steel Pipe	6,648.10	
33 61 13 00-0025	EA	12" X 5' Glass Lined Steel Pipe	7,459.65	
33 61 13 00-0026	EA	12" X 10' Glass Lined Steel Pipe	9,214.24	
33 61 13 00-0027	EA	16" X 10' Glass Lined Steel Pipe	12,551.22	

33 61 13 00-0028 90 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0029	EA	4" 90 Degree Elbow, Glass Lined Steel Fittings	1,321.92	
33 61 13 00-0030	EA	6" 90 Degree Elbow, Glass Lined Steel Fittings	2,153.56	
33 61 13 00-0031	EA	8" 90 Degree Elbow, Glass Lined Steel Fittings	3,939.90	
33 61 13 00-0032	EA	10" 90 Degree Elbow, Glass Lined Steel Fittings	6,975.61	
33 61 13 00-0033	EA	12" 90 Degree Elbow, Glass Lined Steel Fittings	10,350.13	
33 61 13 00-0034	EA	14" 90 Degree Elbow, Glass Lined Steel Fittings	12,148.06	
33 61 13 00-0035	EA	16" 90 Degree Elbow, Glass Lined Steel Fittings	13,945.70	

33 61 13 00-0036 45 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0037	EA	4" 45 Degree Elbow, Glass Lined Steel Fittings	1,296.37	
33 61 13 00-0038	EA	6" 45 Degree Elbow, Glass Lined Steel Fittings	2,153.56	
33 61 13 00-0039	EA	8" 45 Degree Elbow, Glass Lined Steel Fittings	4,116.43	
33 61 13 00-0040	EA	10" 45 Degree Elbow, Glass Lined Steel Fittings	11,518.93	
33 61 13 00-0041	EA	12" 45 Degree Elbow, Glass Lined Steel Fittings	10,350.13	
33 61 13 00-0042	EA	14" 45 Degree Elbow, Glass Lined Steel Fittings	12,148.06	
33 61 13 00-0043	EA	16" 45 Degree Elbow, Glass Lined Steel Fittings	13,945.70	

33 61 13 00-0044 Tee, Glass Lined Steel Fittings (33 61 13 00-0001)

Note: 150 PSIG

33 61 13 00-0045	EA	4" Tee, Glass Lined Steel Fittings.....	2,056.06	
33 61 13 00-0046	EA	6" Tee, Glass Lined Steel Fittings.....	3,512.61	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0047	EA	8" Tee, Glass Lined Steel Fittings.....	5,180.43	
33 61 13 00-0048	EA	10" Tee, Glass Lined Steel Fittings.....	8,931.55	
33 61 13 00-0049	EA	12" Tee, Glass Lined Steel Fittings.....	12,697.72	
33 61 13 00-0050	EA	14" Tee, Glass Lined Steel Fittings.....	14,962.64	
33 61 13 00-0051	EA	16" Tee, Glass Lined Steel Fittings.....	17,182.76	
33 61 13 00-0052		Preinsulated Pipe (33 61 13) Note: Includes coupling per full length of pipe. Excludes excavation and backfill. See CSI section 23 01 20 91-0025 for purging of existing system.		
33 61 13 00-0053		Preinsulated Schedule 40 Black Steel Pipe (33 61 13 00-0052) Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0054		Standard Black Steel Carrier Pipe (33 61 13 00-0053) Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0055	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	43.00	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.42	
		<i>For Schedule 80 Pipe, Add</i>	4.24	
33 61 13 00-0056	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	46.85	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.47	
		<i>For Schedule 80 Pipe, Add</i>	4.66	
33 61 13 00-0057	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	51.26	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.53	
		<i>For Schedule 80 Pipe, Add</i>	5.25	
33 61 13 00-0058	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	54.58	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.56	
		<i>For Schedule 80 Pipe, Add</i>	5.64	
33 61 13 00-0059	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	57.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.59	
		<i>For Schedule 80 Pipe, Add</i>	5.89	
33 61 13 00-0060	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	66.67	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.64	
		<i>For Schedule 80 Pipe, Add</i>	6.40	
33 61 13 00-0061	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	76.87	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.69	
		<i>For Schedule 80 Pipe, Add</i>	6.92	
33 61 13 00-0062	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	97.40	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.87	
		<i>For Schedule 80 Pipe, Add</i>	8.71	
33 61 13 00-0063	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	121.66	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.11	
		<i>For Schedule 80 Pipe, Add</i>	11.14	
33 61 13 00-0064	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	141.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.29	
		<i>For Schedule 80 Pipe, Add</i>	12.94	
33 61 13 00-0065	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	187.50	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.88	
		<i>For Schedule 80 Pipe, Add</i>	18.83	
33 61 13 00-0066	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	235.33	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.48	
		<i>For Schedule 80 Pipe, Add</i>	24.85	
33 61 13 00-0067	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	291.70	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.10	
		<i>For Schedule 80 Pipe, Add</i>	30.99	
33 61 13 00-0068		Standard Black Steel Carrier Pipe (33 61 13 00-0053) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0069	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	45.12	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.47	
		<i>For Schedule 80 Pipe, Add</i>	4.66	
33 61 13 00-0070	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	49.18	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.51	
		<i>For Schedule 80 Pipe, Add</i>	5.13	
33 61 13 00-0071	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	53.88	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.58	
		<i>For Schedule 80 Pipe, Add</i>	5.78	



		Utilities	33	CS
		Hydronic And Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0072	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	57.39 0.62 6.20	
33 61 13 00-0073	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	60.43 0.65 6.48	
33 61 13 00-0074	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pip With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	69.87 0.70 7.04	
33 61 13 00-0075	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	80.33 0.76 7.61	
33 61 13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	101.75 0.96 9.58	
33 61 13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	127.23 1.23 12.26	
33 61 13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	148.42 1.42 14.23	
33 61 13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	196.91 2.07 20.71	
33 61 13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	247.76 2.73 27.33	
33 61 13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	307.20 3.41 34.09	
33 61 13 00-0082		Standard Black Steel Carrier Pipe (33 61 13 00-0053) Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	46.18 0.49 4.88	
33 61 13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	50.35 0.54 5.36	
33 61 13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	55.19 0.60 6.04	
33 61 13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	58.80 0.65 6.48	
33 61 13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	61.91 0.68 6.78	
33 61 13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	71.47 0.74 7.36	
33 61 13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	82.06 0.80 7.95	
33 61 13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	103.93 1.00 10.02	
33 61 13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	130.02 1.28 12.81	
33 61 13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	151.65 1.49 14.88	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0093 LF 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	201.62	
For High Density Polyethylene (HDPE) Jacket, Add	2.17	
For Schedule 80 Pipe, Add	21.65	
33 61 13 00-0094 LF 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	253.97	
For High Density Polyethylene (HDPE) Jacket, Add	2.86	
For Schedule 80 Pipe, Add	28.57	
33 61 13 00-0095 LF 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	314.95	
For High Density Polyethylene (HDPE) Jacket, Add	3.56	
For Schedule 80 Pipe, Add	35.64	
33 61 13 00-0096 Standard Black Steel Carrier Pipe (33 61 13 00-0053)		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0097 LF 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	47.77	
For High Density Polyethylene (HDPE) Jacket, Add	0.52	
For Schedule 80 Pipe, Add	5.19	
33 61 13 00-0098 LF 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	52.09	
For High Density Polyethylene (HDPE) Jacket, Add	0.57	
For Schedule 80 Pipe, Add	5.71	
33 61 13 00-0099 LF 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	57.16	
For High Density Polyethylene (HDPE) Jacket, Add	0.64	
For Schedule 80 Pipe, Add	6.43	
33 61 13 00-0100 LF 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	60.92	
For High Density Polyethylene (HDPE) Jacket, Add	0.69	
For Schedule 80 Pipe, Add	6.90	
33 61 13 00-0101 LF 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	64.12	
For High Density Polyethylene (HDPE) Jacket, Add	0.72	
For Schedule 80 Pipe, Add	7.22	
33 61 13 00-0102 LF 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	73.87	
For High Density Polyethylene (HDPE) Jacket, Add	0.78	
For Schedule 80 Pipe, Add	7.84	
33 61 13 00-0103 LF 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	84.65	
For High Density Polyethylene (HDPE) Jacket, Add	0.85	
For Schedule 80 Pipe, Add	8.47	
33 61 13 00-0104 LF 4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	107.19	
For High Density Polyethylene (HDPE) Jacket, Add	1.07	
For Schedule 80 Pipe, Add	10.67	
33 61 13 00-0105 LF 5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	134.20	
For High Density Polyethylene (HDPE) Jacket, Add	1.37	
For Schedule 80 Pipe, Add	13.65	
33 61 13 00-0106 LF 6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	156.50	
For High Density Polyethylene (HDPE) Jacket, Add	1.58	
For Schedule 80 Pipe, Add	15.85	
33 61 13 00-0107 LF 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	208.68	
For High Density Polyethylene (HDPE) Jacket, Add	2.31	
For Schedule 80 Pipe, Add	23.06	
33 61 13 00-0108 LF 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	263.29	
For High Density Polyethylene (HDPE) Jacket, Add	3.04	
For Schedule 80 Pipe, Add	30.44	
33 61 13 00-0109 LF 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	326.57	
For High Density Polyethylene (HDPE) Jacket, Add	3.80	
For Schedule 80 Pipe, Add	37.97	
33 61 13 00-0110 Preinsulated Black Steel Fittings (33 61 13 00-0052)		
Note: No excavation or backfill.		
33 61 13 00-0111 Elbows (33 61 13 00-0110)		
33 61 13 00-0112 Elbows (33 61 13 00-0111)		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0113 EA 3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	325.60	
For High Density Polyethylene (HDPE) Jacket, Add	4.35	
33 61 13 00-0114 EA 1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	339.06	
For High Density Polyethylene (HDPE) Jacket, Add	4.46	
33 61 13 00-0115 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	390.93	
For High Density Polyethylene (HDPE) Jacket, Add	5.07	



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33 61 13 00-0116	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	444.50	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.53	
33 61 13 00-0117	EA	2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	539.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.76	
33 61 13 00-0118	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	667.85	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.99	
33 61 13 00-0119	EA	3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	777.13	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.92	
33 61 13 00-0120	EA	4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	907.00	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.07	
33 61 13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,057.67	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.37	
33 61 13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,154.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.78	
33 61 13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,607.05	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.03	
33 61 13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,111.21	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.77	
33 61 13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,668.50	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.82	
33 61 13 00-0126 Elbows (33 61 13 00-0111)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0127	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	341.93	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.68	
33 61 13 00-0128	EA	1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	355.78	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.79	
33 61 13 00-0129	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	409.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.45	
33 61 13 00-0130	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	465.24	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.95	
33 61 13 00-0131	EA	2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	561.56	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.20	
33 61 13 00-0132	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	690.33	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.44	
33 61 13 00-0133	EA	3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	803.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.43	
33 61 13 00-0134	EA	4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	937.26	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.67	
33 61 13 00-0135	EA	5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,096.57	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.15	
33 61 13 00-0136	EA	6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,199.14	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.67	
33 61 13 00-0137	EA	8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,670.93	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.31	
33 61 13 00-0138	EA	10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,192.86	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.41	
33 61 13 00-0139	EA	12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,776.57	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.98	
33 61 13 00-0140 Elbows (33 61 13 00-0111)				
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0141	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	358.26	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.01	
33 61 13 00-0142	EA	1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	372.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.13	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

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33 61 13 00-0143 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	428.97	
For High Density Polyethylene (HDPE) Jacket, Add	5.83	
33 61 13 00-0144 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	485.99	
For High Density Polyethylene (HDPE) Jacket, Add	6.36	
33 61 13 00-0145 EA 2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	583.18	
For High Density Polyethylene (HDPE) Jacket, Add	6.63	
33 61 13 00-0146 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	712.80	
For High Density Polyethylene (HDPE) Jacket, Add	6.89	
33 61 13 00-0147 EA 3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	829.00	
For High Density Polyethylene (HDPE) Jacket, Add	7.95	
33 61 13 00-0148 EA 4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	967.52	
For High Density Polyethylene (HDPE) Jacket, Add	9.28	
33 61 13 00-0149 EA 5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,135.48	
For High Density Polyethylene (HDPE) Jacket, Add	11.93	
33 61 13 00-0150 EA 6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,243.33	
For High Density Polyethylene (HDPE) Jacket, Add	13.55	
33 61 13 00-0151 EA 8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,734.81	
For High Density Polyethylene (HDPE) Jacket, Add	19.59	
33 61 13 00-0152 EA 10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,274.51	
For High Density Polyethylene (HDPE) Jacket, Add	25.04	
33 61 13 00-0153 EA 12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,884.63	
For High Density Polyethylene (HDPE) Jacket, Add	33.14	
33 61 13 00-0154 Elbows (33 61 13 00-0111)		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0155 EA 3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	374.59	
For High Density Polyethylene (HDPE) Jacket, Add	5.33	
33 61 13 00-0156 EA 1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	389.20	
For High Density Polyethylene (HDPE) Jacket, Add	5.46	
33 61 13 00-0157 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	447.99	
For High Density Polyethylene (HDPE) Jacket, Add	6.21	
33 61 13 00-0158 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	506.74	
For High Density Polyethylene (HDPE) Jacket, Add	6.78	
33 61 13 00-0159 EA 2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	604.79	
For High Density Polyethylene (HDPE) Jacket, Add	7.06	
33 61 13 00-0160 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	735.28	
For High Density Polyethylene (HDPE) Jacket, Add	7.34	
33 61 13 00-0161 EA 3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	854.93	
For High Density Polyethylene (HDPE) Jacket, Add	8.47	
33 61 13 00-0162 EA 4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	997.77	
For High Density Polyethylene (HDPE) Jacket, Add	9.88	
33 61 13 00-0163 EA 5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,174.38	
For High Density Polyethylene (HDPE) Jacket, Add	12.71	
33 61 13 00-0164 EA 6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,287.51	
For High Density Polyethylene (HDPE) Jacket, Add	14.43	
33 61 13 00-0165 EA 8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,798.68	
For High Density Polyethylene (HDPE) Jacket, Add	20.87	
33 61 13 00-0166 EA 10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,356.16	
For High Density Polyethylene (HDPE) Jacket, Add	26.67	
33 61 13 00-0167 EA 12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,992.69	
For High Density Polyethylene (HDPE) Jacket, Add	35.30	
33 61 13 00-0168 Tees (33 61 13 00-0110)		
33 61 13 00-0169 Tees (33 61 13 00-0168)		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0170 EA 3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	485.07	
For High Density Polyethylene (HDPE) Jacket, Add	6.47	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0171	EA	1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	505.08	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.62	
33 61 13 00-0172	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	582.39	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.53	
33 61 13 00-0173	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	662.40	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.22	
33 61 13 00-0174	EA	2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	805.15	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.56	
33 61 13 00-0175	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	996.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.90	
33 61 13 00-0176	EA	3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,160.50	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.27	
33 61 13 00-0177	EA	4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,354.45	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.98	
33 61 13 00-0178	EA	5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,581.57	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.41	
33 61 13 00-0179	EA	6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,724.39	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.50	
33 61 13 00-0180	EA	8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,396.41	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.30	
33 61 13 00-0181	EA	10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,152.28	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.33	
33 61 13 00-0182	EA	12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,981.14	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.79	
33 61 13 00-0183		Tees (33 61 13 00-0168) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0184	EA	3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	509.32	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.95	
33 61 13 00-0185	EA	1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	529.90	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.12	
33 61 13 00-0186	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	610.64	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.10	
33 61 13 00-0187	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	693.21	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.83	
33 61 13 00-0188	EA	2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	837.24	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.20	
33 61 13 00-0189	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,029.99	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.57	
33 61 13 00-0190	EA	3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,199.02	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.04	
33 61 13 00-0191	EA	4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,399.38	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.88	
33 61 13 00-0192	EA	5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,639.35	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.56	
33 61 13 00-0193	EA	6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,790.01	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.81	
33 61 13 00-0194	EA	8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,491.27	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.19	
33 61 13 00-0195	EA	10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,273.53	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.76	
33 61 13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,141.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	46.00	

33 61 13 00-0197 **Tees** (33 61 13 00-0168)
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	533.57	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.44	
33 61 13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	554.72	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.61	
33 61 13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	638.88	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.66	
33 61 13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	724.02	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.45	
33 61 13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	869.34	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.84	
33 61 13 00-0203	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,063.37	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.24	
33 61 13 00-0204	EA	3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,237.53	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.81	
33 61 13 00-0205	EA	4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,444.32	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.78	
33 61 13 00-0206	EA	5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,697.12	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.72	
33 61 13 00-0207	EA	6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,855.62	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.12	
33 61 13 00-0208	EA	8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,586.13	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.09	
33 61 13 00-0209	EA	10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,394.78	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.18	
33 61 13 00-0210	EA	12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,302.09	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	49.21	
33 61 13 00-0211		Tees (33 61 13 00-0168)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0212	EA	3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	557.82	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.92	
33 61 13 00-0213	EA	1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	579.54	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.11	
33 61 13 00-0214	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	667.12	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.23	
33 61 13 00-0215	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	754.83	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.07	
33 61 13 00-0216	EA	2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	901.43	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.48	
33 61 13 00-0217	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,096.75	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.90	
33 61 13 00-0218	EA	3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,276.05	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.58	
33 61 13 00-0219	EA	4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,489.25	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.68	
33 61 13 00-0220	EA	5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,754.89	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.87	
33 61 13 00-0221	EA	6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,921.24	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.43	
33 61 13 00-0222	EA	8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,680.99	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.99	
33 61 13 00-0223	EA	10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,516.03	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.61	
33 61 13 00-0224	EA	12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,462.57	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	52.42	
33 61 13 00-0225		Reducers (33 61 13 00-0110)		



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		Hydronic And Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 61 13 00-0226 Reducers (33 61 13 00-0225)				
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0227	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	277.82	
		For High Density Polyethylene (HDPE) Jacket, Add	3.61	
33 61 13 00-0228	EA	1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	289.53	
		For High Density Polyethylene (HDPE) Jacket, Add	3.70	
33 61 13 00-0229	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	334.09	
		For High Density Polyethylene (HDPE) Jacket, Add	4.21	
33 61 13 00-0230	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	380.62	
		For High Density Polyethylene (HDPE) Jacket, Add	4.59	
33 61 13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	465.67	
		For High Density Polyethylene (HDPE) Jacket, Add	4.78	
33 61 13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	588.36	
		For High Density Polyethylene (HDPE) Jacket, Add	4.98	
33 61 13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	678.67	
		For High Density Polyethylene (HDPE) Jacket, Add	5.74	
33 61 13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	787.84	
		For High Density Polyethylene (HDPE) Jacket, Add	6.70	
33 61 13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	915.76	
		For High Density Polyethylene (HDPE) Jacket, Add	8.61	
33 61 13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	998.42	
		For High Density Polyethylene (HDPE) Jacket, Add	9.78	
33 61 13 00-0237	EA	8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,386.89	
		For High Density Polyethylene (HDPE) Jacket, Add	14.14	
33 61 13 00-0238	EA	10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,824.31	
		For High Density Polyethylene (HDPE) Jacket, Add	18.07	
33 61 13 00-0239	EA	12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,298.91	
		For High Density Polyethylene (HDPE) Jacket, Add	23.92	
33 61 13 00-0240 Reducers (33 61 13 00-0225)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0241	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	291.37	
		For High Density Polyethylene (HDPE) Jacket, Add	3.89	
33 61 13 00-0242	EA	1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	303.40	
		For High Density Polyethylene (HDPE) Jacket, Add	3.98	
33 61 13 00-0243	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	349.88	
		For High Density Polyethylene (HDPE) Jacket, Add	4.53	
33 61 13 00-0244	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	397.84	
		For High Density Polyethylene (HDPE) Jacket, Add	4.94	
33 61 13 00-0245	EA	2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	483.61	
		For High Density Polyethylene (HDPE) Jacket, Add	5.14	
33 61 13 00-0246	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	607.02	
		For High Density Polyethylene (HDPE) Jacket, Add	5.35	
33 61 13 00-0247	EA	3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	700.20	
		For High Density Polyethylene (HDPE) Jacket, Add	6.17	
33 61 13 00-0248	EA	4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	812.95	
		For High Density Polyethylene (HDPE) Jacket, Add	7.20	
33 61 13 00-0249	EA	5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	948.05	
		For High Density Polyethylene (HDPE) Jacket, Add	9.26	
33 61 13 00-0250	EA	6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,035.09	
		For High Density Polyethylene (HDPE) Jacket, Add	10.51	
33 61 13 00-0251	EA	8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,439.91	
		For High Density Polyethylene (HDPE) Jacket, Add	15.20	
33 61 13 00-0252	EA	10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,892.08	
		For High Density Polyethylene (HDPE) Jacket, Add	19.43	
33 61 13 00-0253	EA	12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,388.61	
		For High Density Polyethylene (HDPE) Jacket, Add	25.71	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0254		Reducers (33 61 13 00-0225) Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0255	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	304.92	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.16	
33 61 13 00-0256	EA	1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	317.27	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.25	
33 61 13 00-0257	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	365.66	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.84	
33 61 13 00-0258	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	415.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.28	
33 61 13 00-0259	EA	2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	501.55	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.50	
33 61 13 00-0260	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	625.67	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.72	
33 61 13 00-0261	EA	3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	721.72	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.60	
33 61 13 00-0262	EA	4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	838.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.70	
33 61 13 00-0263	EA	5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	980.34	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.90	
33 61 13 00-0264	EA	6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,071.77	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.25	
33 61 13 00-0265	EA	8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,492.92	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.26	
33 61 13 00-0266	EA	10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,959.85	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.78	
33 61 13 00-0267	EA	12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,478.30	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.51	
33 61 13 00-0268		Reducers (33 61 13 00-0225) Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0269	EA	3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	318.48	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.43	
33 61 13 00-0270	EA	1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	331.15	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.53	
33 61 13 00-0271	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	381.45	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.16	
33 61 13 00-0272	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	432.28	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.63	
33 61 13 00-0273	EA	2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	519.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.86	
33 61 13 00-0274	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	644.33	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.09	
33 61 13 00-0275	EA	3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	743.25	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.03	
33 61 13 00-0276	EA	4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	863.18	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.20	
33 61 13 00-0277	EA	5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,012.63	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.55	
33 61 13 00-0278	EA	6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,108.44	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.98	
33 61 13 00-0279	EA	8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,545.94	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.32	
33 61 13 00-0280	EA	10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,027.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.14	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 61 13 00-0281	EA	12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,568.00		
		For High Density Polyethylene (HDPE) Jacket, Add	29.30		
33 61 13 00-0282		Preinsulated Type K Copper Pipe (33 61 13 00-0052)			
		Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.			
33 61 13 00-0283		Type K Copper Carrier Pipe (33 61 13 00-0282)			
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.			
33 61 13 00-0284	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	45.30		
		For High Density Polyethylene (HDPE) Jacket, Add	0.49		
33 61 13 00-0285	LF	1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	49.40		
		For High Density Polyethylene (HDPE) Jacket, Add	0.54		
33 61 13 00-0286	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	54.19		
		For High Density Polyethylene (HDPE) Jacket, Add	0.61		
33 61 13 00-0287	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	57.77		
		For High Density Polyethylene (HDPE) Jacket, Add	0.65		
33 61 13 00-0288	LF	2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	60.79		
		For High Density Polyethylene (HDPE) Jacket, Add	0.68		
33 61 13 00-0289	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	70.04		
		For High Density Polyethylene (HDPE) Jacket, Add	0.74		
33 61 13 00-0290	LF	3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	80.27		
		For High Density Polyethylene (HDPE) Jacket, Add	0.80		
33 61 13 00-0291	LF	4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	101.66		
		For High Density Polyethylene (HDPE) Jacket, Add	1.01		
33 61 13 00-0292	LF	5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	127.26		
		For High Density Polyethylene (HDPE) Jacket, Add	1.29		
33 61 13 00-0293	LF	6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	148.40		
		For High Density Polyethylene (HDPE) Jacket, Add	1.50		
33 61 13 00-0294	LF	8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	197.87		
		For High Density Polyethylene (HDPE) Jacket, Add	2.19		
33 61 13 00-0295	LF	10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	249.64		
		For High Density Polyethylene (HDPE) Jacket, Add	2.88		
33 61 13 00-0296	LF	12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	309.65		
		For High Density Polyethylene (HDPE) Jacket, Add	3.60		
33 61 13 00-0297		Type K Copper Carrier Pipe (33 61 13 00-0282)			
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.			
33 61 13 00-0298	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	47.76		
		For High Density Polyethylene (HDPE) Jacket, Add	0.54		
33 61 13 00-0299	LF	1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	52.11		
		For High Density Polyethylene (HDPE) Jacket, Add	0.60		
33 61 13 00-0300	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	57.24		
		For High Density Polyethylene (HDPE) Jacket, Add	0.67		
33 61 13 00-0301	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	61.04		
		For High Density Polyethylene (HDPE) Jacket, Add	0.72		
33 61 13 00-0302	LF	2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	64.21		
		For High Density Polyethylene (HDPE) Jacket, Add	0.75		
33 61 13 00-0303	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	73.76		
		For High Density Polyethylene (HDPE) Jacket, Add	0.82		
33 61 13 00-0304	LF	3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	84.28		
		For High Density Polyethylene (HDPE) Jacket, Add	0.88		
33 61 13 00-0305	LF	4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	106.71		
		For High Density Polyethylene (HDPE) Jacket, Add	1.11		
33 61 13 00-0306	LF	5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	133.73		
		For High Density Polyethylene (HDPE) Jacket, Add	1.42		
33 61 13 00-0307	LF	6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	155.91		
		For High Density Polyethylene (HDPE) Jacket, Add	1.65		
33 61 13 00-0308	LF	8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	208.80		
		For High Density Polyethylene (HDPE) Jacket, Add	2.40		

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0309	LF	10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	264.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.17	
33 61 13 00-0310	LF	12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	327.64	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.96	
33 61 13 00-0311		Type K Copper Carrier Pipe (33 61 13 00-0282)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0312	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	48.99	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.57	
33 61 13 00-0313	LF	1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	53.46	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0314	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	58.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.70	
33 61 13 00-0315	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	62.68	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.75	
33 61 13 00-0316	LF	2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.92	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.79	
33 61 13 00-0317	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	75.62	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.86	
33 61 13 00-0318	LF	3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	86.29	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.92	
33 61 13 00-0319	LF	4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	109.24	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.16	
33 61 13 00-0320	LF	5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	136.96	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.49	
33 61 13 00-0321	LF	6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	159.66	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.73	
33 61 13 00-0322	LF	8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	214.26	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.51	
33 61 13 00-0323	LF	10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	271.28	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.32	
33 61 13 00-0324	LF	12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	336.63	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.14	
33 61 13 00-0325		Type K Copper Carrier Pipe (33 61 13 00-0282)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0326	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	50.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.60	
33 61 13 00-0327	LF	1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	55.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.66	
33 61 13 00-0328	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	61.05	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.75	
33 61 13 00-0329	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.13	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.80	
33 61 13 00-0330	LF	2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	68.48	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.84	
33 61 13 00-0331	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	78.41	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.91	
33 61 13 00-0332	LF	3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	89.30	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.98	
33 61 13 00-0333	LF	4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	113.03	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.24	
33 61 13 00-0334	LF	5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	141.81	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.58	
33 61 13 00-0335	LF	6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	165.29	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.84	



		Utilities	33	CS
		Hydronic And Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0336	LF	8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	222.46	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.68	
33 61 13 00-0337	LF	10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	282.09	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.53	
33 61 13 00-0338	LF	12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	350.13	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.41	
33 61 13 00-0339		Preinsulated Copper Fittings (33 61 13 00-0052)		
33 61 13 00-0340		Elbows (33 61 13 00-0339)		
33 61 13 00-0341		Elbows (33 61 13 00-0340)		
		Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0342	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	374.29	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.61	
33 61 13 00-0343	EA	1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	388.14	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.74	
33 61 13 00-0344	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	446.11	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.53	
33 61 13 00-0345	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	502.34	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.13	
33 61 13 00-0346	EA	2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	590.18	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.42	
33 61 13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	706.19	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.72	
33 61 13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	820.51	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.91	
33 61 13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	957.58	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.39	
33 61 13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,136.85	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.36	
33 61 13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,250.98	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.18	
33 61 13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,754.03	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.94	
33 61 13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,291.52	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.05	
33 61 13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,923.69	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.12	
33 61 13 00-0355		Elbows (33 61 13 00-0340)		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	395.33	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.03	
33 61 13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	409.67	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.17	
33 61 13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	470.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.02	
33 61 13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	529.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.66	
33 61 13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	618.02	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.98	
33 61 13 00-0361	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	735.15	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.30	
33 61 13 00-0362	EA	3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	853.92	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.58	
33 61 13 00-0363	EA	4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	996.56	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.17	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0364	EA	5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,186.97	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.37	
33 61 13 00-0365	EA	6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,307.90	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.32	
33 61 13 00-0366	EA	8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,836.32	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.59	
33 61 13 00-0367	EA	10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,396.71	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.15	
33 61 13 00-0368	EA	12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,062.90	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.91	
33 61 13 00-0369		Elbows (33 61 13 00-0340)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0370	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	416.36	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.45	
33 61 13 00-0371	EA	1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	431.20	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.60	
33 61 13 00-0372	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	495.11	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.51	
33 61 13 00-0373	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	555.79	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.20	
33 61 13 00-0374	EA	2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	645.86	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.54	
33 61 13 00-0375	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	764.11	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.88	
33 61 13 00-0376	EA	3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	887.33	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.25	
33 61 13 00-0377	EA	4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,035.54	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.95	
33 61 13 00-0378	EA	5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,237.09	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.37	
33 61 13 00-0379	EA	6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,365.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.46	
33 61 13 00-0380	EA	8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,918.46	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.24	
33 61 13 00-0381	EA	10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,501.54	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.26	
33 61 13 00-0382	EA	12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,202.38	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.69	
33 61 13 00-0383		Elbows (33 61 13 00-0340)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0384	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	437.40	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.87	
33 61 13 00-0385	EA	1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	452.73	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.03	
33 61 13 00-0386	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	519.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.00	
33 61 13 00-0387	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	582.52	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.73	
33 61 13 00-0388	EA	2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	673.70	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.10	
33 61 13 00-0389	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	793.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.46	
33 61 13 00-0390	EA	3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	920.75	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.91	



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		Hydronic And Steam Energy Utilities	33 60	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0391	EA	4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,074.52	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.73	
33 61 13 00-0392	EA	5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,287.20	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.37	
33 61 13 00-0393	EA	6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,421.98	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.59	
33 61 13 00-0394	EA	8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,000.75	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.88	
33 61 13 00-0395	EA	10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,606.73	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.36	
33 61 13 00-0396	EA	12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,341.60	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	45.48	
33 61 13 00-0397 Tees (33 61 13 00-0399)				
33 61 13 00-0398 Tees (33 61 13 00-0397)				
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0399	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	557.18	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.33	
33 61 13 00-0400	EA	1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	577.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.53	
33 61 13 00-0401	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	664.10	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.70	
33 61 13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	747.98	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.58	
33 61 13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	879.27	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.03	
33 61 13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,052.96	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.47	
33 61 13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,224.13	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.23	
33 61 13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,428.62	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.44	
33 61 13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,697.78	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.85	
33 61 13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,865.67	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.54	
33 61 13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,613.20	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.59	
33 61 13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,417.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	41.65	
33 61 13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,357.70	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	55.13	
33 61 13 00-0412 Tees (33 61 13 00-0397)				
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.				
33 61 13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	588.42	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.96	
33 61 13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	609.73	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.17	
33 61 13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	700.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.43	
33 61 13 00-0416	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	787.68	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.38	
33 61 13 00-0417	EA	2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	920.62	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.85	
33 61 13 00-0418	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,095.96	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.33	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0419	EA	3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,273.75	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.22	
33 61 13 00-0420	EA	4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,486.50	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.59	
33 61 13 00-0421	EA	5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,772.21	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.33	
33 61 13 00-0422	EA	6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,950.20	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.23	
33 61 13 00-0423	EA	8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,735.40	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.03	
33 61 13 00-0424	EA	10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,573.96	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	44.78	
33 61 13 00-0425	EA	12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,564.43	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.26	
33 61 13 00-0426		Tees (33 61 13 00-0397)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0427	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	619.65	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.58	
33 61 13 00-0428	EA	1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	641.71	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.81	
33 61 13 00-0429	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	736.87	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.16	
33 61 13 00-0430	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	827.37	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.17	
33 61 13 00-0431	EA	2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	961.97	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.68	
33 61 13 00-0432	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,138.96	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.19	
33 61 13 00-0433	EA	3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,323.36	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.22	
33 61 13 00-0434	EA	4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,544.39	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.75	
33 61 13 00-0435	EA	5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,846.63	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.82	
33 61 13 00-0436	EA	6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,035.09	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.92	
33 61 13 00-0437	EA	8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,856.67	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.48	
33 61 13 00-0438	EA	10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,728.11	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	47.90	
33 61 13 00-0439	EA	12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,773.53	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	63.40	
33 61 13 00-0440		Tees (33 61 13 00-0397)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0441	EA	3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	650.89	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.20	
33 61 13 00-0442	EA	1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	673.68	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.45	
33 61 13 00-0443	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	773.25	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.89	
33 61 13 00-0444	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	867.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.97	
33 61 13 00-0445	EA	2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,003.31	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.51	



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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 61 13 00-0446	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,181.96		
		For High Density Polyethylene (HDPE) Jacket, Add	14.05		
33 61 13 00-0447	EA	3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,372.98		
		For High Density Polyethylene (HDPE) Jacket, Add	16.21		
33 61 13 00-0448	EA	4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,602.27		
		For High Density Polyethylene (HDPE) Jacket, Add	18.91		
33 61 13 00-0449	EA	5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,921.05		
		For High Density Polyethylene (HDPE) Jacket, Add	24.31		
33 61 13 00-0450	EA	6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,119.62		
		For High Density Polyethylene (HDPE) Jacket, Add	27.61		
33 61 13 00-0451	EA	8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,978.87		
		For High Density Polyethylene (HDPE) Jacket, Add	39.92		
33 61 13 00-0452	EA	10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,884.31		
		For High Density Polyethylene (HDPE) Jacket, Add	51.02		
33 61 13 00-0453	EA	12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,980.26		
		For High Density Polyethylene (HDPE) Jacket, Add	67.53		
33 61 13 00-0454 Reducers (33 61 13 00-0339)					
33 61 13 00-0455 Reducers (33 61 13 00-0454)					
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61 13 00-0456	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	317.25		
		For High Density Polyethylene (HDPE) Jacket, Add	4.66		
33 61 13 00-0457	EA	1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	329.20		
		For High Density Polyethylene (HDPE) Jacket, Add	4.77		
33 61 13 00-0458	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	378.63		
		For High Density Polyethylene (HDPE) Jacket, Add	5.42		
33 61 13 00-0459	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	427.10		
		For High Density Polyethylene (HDPE) Jacket, Add	5.92		
33 61 13 00-0460	EA	2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	505.07		
		For High Density Polyethylene (HDPE) Jacket, Add	6.16		
33 61 13 00-0461	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	615.75		
		For High Density Polyethylene (HDPE) Jacket, Add	6.41		
33 61 13 00-0462	EA	3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	710.30		
		For High Density Polyethylene (HDPE) Jacket, Add	7.40		
33 61 13 00-0463	EA	4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	825.25		
		For High Density Polyethylene (HDPE) Jacket, Add	8.63		
33 61 13 00-0464	EA	5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	976.57		
		For High Density Polyethylene (HDPE) Jacket, Add	11.09		
33 61 13 00-0465	EA	6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,072.92		
		For High Density Polyethylene (HDPE) Jacket, Add	12.60		
33 61 13 00-0466	EA	8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,501.90		
		For High Density Polyethylene (HDPE) Jacket, Add	18.21		
33 61 13 00-0467	EA	10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,964.66		
		For High Density Polyethylene (HDPE) Jacket, Add	23.28		
33 61 13 00-0468	EA	12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,499.77		
		For High Density Polyethylene (HDPE) Jacket, Add	30.81		
33 61 13 00-0469 Reducers (33 61 13 00-0454)					
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61 13 00-0470	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	334.71		
		For High Density Polyethylene (HDPE) Jacket, Add	5.01		
33 61 13 00-0471	EA	1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	347.07		
		For High Density Polyethylene (HDPE) Jacket, Add	5.12		
33 61 13 00-0472	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	398.97		
		For High Density Polyethylene (HDPE) Jacket, Add	5.83		
33 61 13 00-0473	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	449.29		
		For High Density Polyethylene (HDPE) Jacket, Add	6.36		

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0474	EA	2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	528.17	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.62	
33 61 13 00-0475	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	639.78	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.89	
33 61 13 00-0476	EA	3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	738.03	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.95	
33 61 13 00-0477	EA	4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	857.60	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.27	
33 61 13 00-0478	EA	5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,018.16	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.92	
33 61 13 00-0479	EA	6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,120.16	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.54	
33 61 13 00-0480	EA	8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,570.20	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.58	
33 61 13 00-0481	EA	10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,051.96	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.03	
33 61 13 00-0482	EA	12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,615.31	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.12	
33 61 13 00-0483		Reducers (33 61 13 00-0454)		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0484	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	352.17	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.35	
33 61 13 00-0485	EA	1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	364.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.48	
33 61 13 00-0486	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	419.30	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.24	
33 61 13 00-0487	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	471.47	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.80	
33 61 13 00-0488	EA	2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	551.28	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.09	
33 61 13 00-0489	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	663.82	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.37	
33 61 13 00-0490	EA	3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	765.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.50	
33 61 13 00-0491	EA	4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	889.95	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.92	
33 61 13 00-0492	EA	5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,059.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.76	
33 61 13 00-0493	EA	6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,167.60	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.49	
33 61 13 00-0494	EA	8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,638.16	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.95	
33 61 13 00-0495	EA	10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,138.98	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.77	
33 61 13 00-0496	EA	12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,731.07	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.43	
33 61 13 00-0497		Reducers (33 61 13 00-0454)		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0498	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	369.63	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.70	
33 61 13 00-0499	EA	1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	382.82	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.84	
33 61 13 00-0500	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	439.64	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.64	



		Utilities	33	CS
		Hydronic And Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0501	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	493.66 7.25	
33 61 13 00-0502	EA	2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	574.39 7.55	
33 61 13 00-0503	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	687.85 7.85	
33 61 13 00-0504	EA	3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	793.49 9.06	
33 61 13 00-0505	EA	4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	922.31 10.57	
33 61 13 00-0506	EA	5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,101.36 13.59	
33 61 13 00-0507	EA	6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,214.84 15.43	
33 61 13 00-0508	EA	8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,706.46 22.31	
33 61 13 00-0509	EA	10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,226.29 28.52	
33 61 13 00-0510	EA	12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,846.62 37.75	
33 61 13 00-0511		Preinsulated Ductile Iron Carrier Pipe (33 61 13 00-0052) Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0512		Ductile Iron Carrier Pipe (33 61 13 00-0511) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0513	LF	4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	103.98	
33 61 13 00-0514	LF	6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	151.47	
33 61 13 00-0515	LF	8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	199.62	
33 61 13 00-0516	LF	10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	250.24	
33 61 13 00-0517	LF	12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	310.13	
33 61 13 00-0518		Ductile Iron Carrier Pipe (33 61 13 00-0511) Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0519	LF	4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	109.12	
33 61 13 00-0520	LF	6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	159.11	
33 61 13 00-0521	LF	8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	210.73	
33 61 13 00-0522	LF	10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	264.90	
33 61 13 00-0523	LF	12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	328.41	
33 61 13 00-0524	LF	14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	357.69	
33 61 13 00-0525	LF	16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	399.43	
33 61 13 00-0526	LF	18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	445.46	
33 61 13 00-0527	LF	20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	487.44	
33 61 13 00-0528	LF	24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	569.60	
33 61 13 00-0529		Preinsulated Ductile Iron Fittings (33 61 13 00-0052)		
33 61 13 00-0530		Elbows (33 61 13 00-0529)		
33 61 13 00-0531		Elbows (33 61 13 00-0530) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	958.47	
33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,230.12	
33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,715.71	

33 Utilities**33 60 Hydronic And Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,250.10	
33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,852.33	
33 61 13 00-0537		Elbows (33 61 13 00-0530) Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,021.95	
33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,322.81	
33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,849.72	
33 61 13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,421.39	
33 61 13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,079.03	
33 61 13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,730.51	
33 61 13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,379.12	
33 61 13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,456.36	
33 61 13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	6,944.53	
33 61 13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	9,119.04	
33 61 13 00-0548		Tees (33 61 13 00-0529)		
33 61 13 00-0549		Tees (33 61 13 00-0548) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,430.88	
33 61 13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,836.01	
33 61 13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,557.77	
33 61 13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,358.54	
33 61 13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,254.12	
33 61 13 00-0555		Tees (33 61 13 00-0548) Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,525.15	
33 61 13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,973.66	
33 61 13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,756.77	
33 61 13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,612.90	
33 61 13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,590.77	
33 61 13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	5,418.97	
33 61 13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	6,362.97	
33 61 13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	7,929.66	
33 61 13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	10,099.78	
33 61 13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	13,263.34	
33 61 13 00-0566		Reducers (33 61 13 00-0529)		
33 61 13 00-0567		Reducers (33 61 13 00-0566) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	830.56	
33 61 13 00-0569	EA	6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,060.80	
33 61 13 00-0570	EA	8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,477.08	
33 61 13 00-0571	EA	10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,939.59	
33 61 13 00-0572	EA	12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,451.49	



		Utilities	33	CS
		Hydronic And Steam Energy Utilities	33 60	
		Hydronic Energy Distribution	33 61	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 61 13 00-0573 Reducers (33 61 13 00-0566)					
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61 13 00-0574	EA	4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	883.24		
33 61 13 00-0575	EA	6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,137.74		
33 61 13 00-0576	EA	8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	1,588.30		
33 61 13 00-0577	EA	10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,081.75		
33 61 13 00-0578	EA	12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	2,639.65		
33 61 13 00-0579	EA	14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,112.71		
33 61 13 00-0580	EA	16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	3,649.35		
33 61 13 00-0581	EA	18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	4,510.91		
33 61 13 00-0582	EA	20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	5,792.31		
33 61 13 00-0583	EA	24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket	7,629.47		
33 61 13 00-0584 Tempered Water Piping Pre-Insulated (33 61 13 00-0052)					
33 61 13 00-0585 Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation (33 61 13 00-0584)					
33 61 13 00-0586	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	54.04	20.86	
33 61 13 00-0587	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	66.84	24.52	
33 61 13 00-0588	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	84.30	25.37	
33 61 13 00-0589	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	110.88	31.72	
33 61 13 00-0590	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	140.85	39.11	
33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation (33 61 13 00-0584)					
33 61 13 00-0592	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	43.49	24.52	
33 61 13 00-0593	LF	6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	45.63	24.52	
33 61 13 00-0594	LF	8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	47.63	24.52	
33 61 13 00-0595	LF	10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	57.22	28.98	
33 61 13 00-0596	LF	12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	70.38	36.78	
33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation (33 61 13 00-0584)					
33 61 13 00-0598	LF	4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	43.49	24.52	
33 61 13 00-0599	LF	6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	45.63	24.52	
33 61 13 00-0600	LF	8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	47.63	24.52	
33 61 13 00-0601	LF	10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	57.22	28.98	
33 61 13 00-0602	LF	12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	70.38	36.78	
33 70 Electrical Utilities (33)					
33 71 Electrical Utility Transmission And Distribution (33 70)					
33 71 19 Electrical Underground Ducts, Ductbanks and Manholes (33 71)					
Note: Excludes excavation and backfill.					
33 71 19 00-0001 Electrical Handholes And Pull Boxes (33 71 19)					
33 71 19 00-0002 Electrical Pull Boxes (33 71 19 00-0001)					
See CSI section 33 05 63 00-0427 for handholes.					
33 71 19 00-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,521.65		
33 71 19 00-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,821.32		
33 71 19 00-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,107.52		
33 71 19 00-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,271.48		
33 71 19 00-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,488.36		
33 71 19 00-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,751.13		
33 71 19 00-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,315.30		
33 71 19 00-0010 Electrical Pull Boxes (CALTRANS) (33 71 19 00-0001)					
33 71 19 00-0011	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box	94.97		

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission And Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 00-0012 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	32.03	
33 71 19 00-0013 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	51.96	
33 71 19 00-0014 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	96.78	
33 71 19 00-0015 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box.....	143.26	
For Galvanized Steel Cover, Add	22.50	
33 71 19 00-0016 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box.....	44.81	
33 71 19 00-0017 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box.....	44.81	
33 71 19 00-0018 EA Body, CALTRANS 5 Precast Concrete Pull Box.....	137.92	
33 71 19 00-0019 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	40.83	
33 71 19 00-0020 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box.....	60.76	
33 71 19 00-0021 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box.....	186.16	
For Galvanized Steel Cover, Add	41.25	
33 71 19 00-0022 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box.....	58.56	
33 71 19 00-0023 EA Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....	55.54	
33 71 19 00-0024 EA Body, CALTRANS 6 Precast Concrete Pull Box.....	146.72	
33 71 19 00-0025 EA Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	52.65	
33 71 19 00-0026 EA Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	72.58	
33 71 19 00-0027 EA Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....	251.06	
For Galvanized Steel Cover, Add	57.75	
33 71 19 00-0028 EA 12" Extension, CALTRANS 6 Precast Concrete Pull Box.....	67.36	
33 71 19 00-0029 EA Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	64.06	
33 71 19 00-0030 EA 6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	83.86	
33 71 19 00-0031 EA Body, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	175.55	
33 71 19 00-0032 EA Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	221.36	
33 71 19 00-0033 EA 12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	78.36	
33 71 19 00-0034 EA Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	72.86	
33 71 19 00-0035 EA Body, CALTRANS 5-T Precast Concrete Pull Box.....	234.72	
33 71 19 00-0036 EA Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box.....	314.86	
33 71 19 00-0037 EA 12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	91.56	
33 71 19 00-0038 EA Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box.....	89.36	
33 71 19 00-0039 EA Body, CALTRANS 6-T Precast Concrete Pull Box.....	315.02	
33 71 19 00-0040 EA Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box.....	435.86	
33 71 19 00-0041 EA 12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	146.56	
33 71 19 00-0042 EA Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box.....	116.86	
33 71 19 00-0043 Electrical Property Line Boxes (33 71 19)		
33 71 19 00-0044 EA 3'-6" x 2'-9" x 2' Deep Property Line Box.....	3,002.39	310.11
33 71 19 00-0045 EA 4'-6" x 3'-6" x 4' Deep Property Line Box.....	3,511.88	321.59
33 71 19 00-0046 EA 6' x 4' x 5' Deep Property Line Box.....	3,867.79	390.51
33 71 19 00-0047 EA 11'-6" x 4'-6" x 6' Deep Property Line Box.....	5,912.93	574.27
33 71 19 00-0048 Underground Electrical Concrete Markers (33 71 19)		
33 71 19 00-0049 EA 36" x 6" x 6", Underground Electric Concrete Marker.....	311.22	
33 71 19 00-0050 Manhole Accessories (33 71 19)		
33 71 19 00-0051 EA 6" Precast Grade Ring Riser Casting.....	433.01	
33 71 19 00-0052 EA 12" Precast Grade Ring Riser Casting.....	468.93	
33 71 19 00-0053 EA 36" Opening Cast Iron Frame And Cover NEENAH #R-1640-D.....	1,288.78	
33 71 19 00-0054 EA 42" Opening Cast Iron Frame And Cover NEENAH #R-1740-E1.....	1,672.34	
33 71 19 00-0055 EA Cast Iron Adjusting Ring NEENAH #R-1979.....	586.30	
33 71 19 00-0056 EA Cast Iron Frame And Cover NEENAH #R-1640-B.....	728.53	

END OF SECTION 33



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04.		
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)		
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	490.89 -21.38 14.58 32.41	195.68
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	516.87 -23.67 16.14 35.87	199.10
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	542.86 -25.96 17.70 39.34	202.52
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	568.84 -28.25 19.26 42.81	205.94
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	594.81 -30.54 20.82 46.28	209.36
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	620.80 -32.82 22.38 49.74	212.79
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	646.78 -35.11 23.94 53.21	216.20
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	672.77 -37.40 25.50 56.68	219.63
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	698.75 -39.69 27.06 60.15	223.05
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	724.74 -41.98 28.62 63.61	226.47
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	750.72 -44.26 30.18 67.08	229.89
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	776.70 -46.55 31.74 70.55	233.32
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	802.69 -48.84 33.30 74.01	236.73
40 05 19 00-0017	EA 4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	828.67 -51.13 34.86 77.48	240.16
40 05 19 00-0018	EA 4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	854.66 -53.42 36.42 80.95	243.57
40 05 19 00-0019	EA 4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	880.64 -55.70 37.98 84.42	246.99

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0020 EA 4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	906.61	250.42
For Class 52 Rating, Deduct	-57.99	
For Class 54 Rating, Add	39.54	
For Class 55 Rating, Add	87.88	
40 05 19 00-0021 EA 4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	932.60	253.83
For Class 52 Rating, Deduct	-60.28	
For Class 54 Rating, Add	41.10	
For Class 55 Rating, Add	91.35	
40 05 19 00-0022 EA 4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	958.58	257.26
For Class 52 Rating, Deduct	-62.57	
For Class 54 Rating, Add	42.66	
For Class 55 Rating, Add	94.82	
40 05 19 00-0023 EA 4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	984.57	260.68
For Class 52 Rating, Deduct	-64.86	
For Class 54 Rating, Add	44.22	
For Class 55 Rating, Add	98.29	
40 05 19 00-0024 EA 4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,010.55	264.10
For Class 52 Rating, Deduct	-67.14	
For Class 54 Rating, Add	45.78	
For Class 55 Rating, Add	101.75	
40 05 19 00-0025 EA 4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,036.54	267.52
For Class 52 Rating, Deduct	-69.43	
For Class 54 Rating, Add	47.34	
For Class 55 Rating, Add	105.22	
40 05 19 00-0026 EA 4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,062.52	270.94
For Class 52 Rating, Deduct	-71.72	
For Class 54 Rating, Add	48.90	
For Class 55 Rating, Add	108.69	
40 05 19 00-0027 EA 4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,088.50	274.36
For Class 52 Rating, Deduct	-74.01	
For Class 54 Rating, Add	50.46	
For Class 55 Rating, Add	112.16	
40 05 19 00-0028 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,114.49	277.79
For Class 52 Rating, Deduct	-76.30	
For Class 54 Rating, Add	52.02	
For Class 55 Rating, Add	115.62	
40 05 19 00-0029 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,140.47	281.20
For Class 52 Rating, Deduct	-78.58	
For Class 54 Rating, Add	53.58	
For Class 55 Rating, Add	119.09	
40 05 19 00-0030 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,166.46	284.63
For Class 52 Rating, Deduct	-80.87	
For Class 54 Rating, Add	55.14	
For Class 55 Rating, Add	122.56	
40 05 19 00-0031 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,192.44	288.05
For Class 52 Rating, Deduct	-83.16	
For Class 54 Rating, Add	56.70	
For Class 55 Rating, Add	126.03	
40 05 19 00-0032 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,218.42	291.47
For Class 52 Rating, Deduct	-85.45	
For Class 54 Rating, Add	58.26	
For Class 55 Rating, Add	129.49	
40 05 19 00-0033 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,244.40	294.89
For Class 52 Rating, Deduct	-87.74	
For Class 54 Rating, Add	59.82	
For Class 55 Rating, Add	132.96	
40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,270.38	298.31
For Class 52 Rating, Deduct	-90.02	
For Class 54 Rating, Add	61.38	
For Class 55 Rating, Add	136.43	
40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,296.37	301.73
For Class 52 Rating, Deduct	-92.31	
For Class 54 Rating, Add	62.94	
For Class 55 Rating, Add	139.89	
40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,322.35	305.15
For Class 52 Rating, Deduct	-94.60	
For Class 54 Rating, Add	64.50	
For Class 55 Rating, Add	143.36	
40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,348.33	308.57
For Class 52 Rating, Deduct	-96.89	
For Class 54 Rating, Add	66.06	
For Class 55 Rating, Add	146.83	
40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,374.32	311.99
For Class 52 Rating, Deduct	-99.18	
For Class 54 Rating, Add	67.62	
For Class 55 Rating, Add	150.30	
40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,400.30	315.42
For Class 52 Rating, Deduct	-101.46	
For Class 54 Rating, Add	69.18	
For Class 55 Rating, Add	153.76	
40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,426.29	318.83
For Class 52 Rating, Deduct	-103.75	
For Class 54 Rating, Add	70.74	
For Class 55 Rating, Add	157.23	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0041	EA	4"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,452.27	322.26
			For Class 52 Rating, Deduct	-106.04	
			For Class 54 Rating, Add	72.30	
			For Class 55 Rating, Add	160.70	
40 05 19 00-0042	EA	4"	Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.26	325.68
			For Class 52 Rating, Deduct	-108.33	
			For Class 54 Rating, Add	73.86	
			For Class 55 Rating, Add	164.17	
40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)					
40 05 19 00-0044	EA	6"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	620.40	246.32
			For Class 52 Rating, Deduct	-27.19	
			For Class 54 Rating, Add	18.54	
			For Class 55 Rating, Add	41.21	
40 05 19 00-0045	EA	6"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	651.18	249.73
			For Class 52 Rating, Deduct	-30.01	
			For Class 54 Rating, Add	20.46	
			For Class 55 Rating, Add	45.48	
40 05 19 00-0046	EA	6"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	681.97	253.16
			For Class 52 Rating, Deduct	-32.82	
			For Class 54 Rating, Add	22.38	
			For Class 55 Rating, Add	49.74	
40 05 19 00-0047	EA	6"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	712.75	256.57
			For Class 52 Rating, Deduct	-35.64	
			For Class 54 Rating, Add	24.30	
			For Class 55 Rating, Add	54.01	
40 05 19 00-0048	EA	6"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	743.53	259.99
			For Class 52 Rating, Deduct	-38.46	
			For Class 54 Rating, Add	26.22	
			For Class 55 Rating, Add	58.28	
40 05 19 00-0049	EA	6"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	774.32	263.42
			For Class 52 Rating, Deduct	-41.27	
			For Class 54 Rating, Add	28.14	
			For Class 55 Rating, Add	62.55	
40 05 19 00-0050	EA	6"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	805.10	266.83
			For Class 52 Rating, Deduct	-44.09	
			For Class 54 Rating, Add	30.06	
			For Class 55 Rating, Add	66.81	
40 05 19 00-0051	EA	6"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	835.89	270.26
			For Class 52 Rating, Deduct	-46.90	
			For Class 54 Rating, Add	31.98	
			For Class 55 Rating, Add	71.08	
40 05 19 00-0052	EA	6"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	866.67	273.68
			For Class 52 Rating, Deduct	-49.72	
			For Class 54 Rating, Add	33.90	
			For Class 55 Rating, Add	75.35	
40 05 19 00-0053	EA	6"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	897.44	277.10
			For Class 52 Rating, Deduct	-52.54	
			For Class 54 Rating, Add	35.82	
			For Class 55 Rating, Add	79.62	
40 05 19 00-0054	EA	6"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	928.23	280.52
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-0055	EA	6"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	959.01	283.95
			For Class 52 Rating, Deduct	-58.17	
			For Class 54 Rating, Add	39.66	
			For Class 55 Rating, Add	88.15	
40 05 19 00-0056	EA	6"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	989.80	287.36
			For Class 52 Rating, Deduct	-60.98	
			For Class 54 Rating, Add	41.58	
			For Class 55 Rating, Add	92.42	
40 05 19 00-0057	EA	6"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,020.58	290.79
			For Class 52 Rating, Deduct	-63.80	
			For Class 54 Rating, Add	43.50	
			For Class 55 Rating, Add	96.69	
40 05 19 00-0058	EA	6"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,051.37	294.20
			For Class 52 Rating, Deduct	-66.62	
			For Class 54 Rating, Add	45.42	
			For Class 55 Rating, Add	100.95	
40 05 19 00-0059	EA	6"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,082.15	297.63
			For Class 52 Rating, Deduct	-69.43	
			For Class 54 Rating, Add	47.34	
			For Class 55 Rating, Add	105.22	
40 05 19 00-0060	EA	6"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,112.93	301.05
			For Class 52 Rating, Deduct	-72.25	
			For Class 54 Rating, Add	49.26	
			For Class 55 Rating, Add	109.49	
40 05 19 00-0061	EA	6"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,143.72	304.47
			For Class 52 Rating, Deduct	-75.06	
			For Class 54 Rating, Add	51.18	
			For Class 55 Rating, Add	113.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0062 EA 6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,174.50	307.89
For Class 52 Rating, Deduct	-77.88	
For Class 54 Rating, Add	53.10	
For Class 55 Rating, Add	118.02	
40 05 19 00-0063 EA 6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,205.29	311.31
For Class 52 Rating, Deduct	-80.70	
For Class 54 Rating, Add	55.02	
For Class 55 Rating, Add	122.29	
40 05 19 00-0064 EA 6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,236.07	314.73
For Class 52 Rating, Deduct	-83.51	
For Class 54 Rating, Add	56.94	
For Class 55 Rating, Add	126.56	
40 05 19 00-0065 EA 6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,266.84	318.15
For Class 52 Rating, Deduct	-86.33	
For Class 54 Rating, Add	58.86	
For Class 55 Rating, Add	130.83	
40 05 19 00-0066 EA 6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,297.63	321.57
For Class 52 Rating, Deduct	-89.14	
For Class 54 Rating, Add	60.78	
For Class 55 Rating, Add	135.09	
40 05 19 00-0067 EA 6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,328.41	324.99
For Class 52 Rating, Deduct	-91.96	
For Class 54 Rating, Add	62.70	
For Class 55 Rating, Add	139.36	
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,359.20	328.42
For Class 52 Rating, Deduct	-94.78	
For Class 54 Rating, Add	64.62	
For Class 55 Rating, Add	143.63	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,389.98	331.83
For Class 52 Rating, Deduct	-97.59	
For Class 54 Rating, Add	66.54	
For Class 55 Rating, Add	147.90	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,420.76	335.26
For Class 52 Rating, Deduct	-100.41	
For Class 54 Rating, Add	68.46	
For Class 55 Rating, Add	152.16	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,451.55	338.68
For Class 52 Rating, Deduct	-103.22	
For Class 54 Rating, Add	70.38	
For Class 55 Rating, Add	156.43	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,482.33	342.10
For Class 52 Rating, Deduct	-106.04	
For Class 54 Rating, Add	72.30	
For Class 55 Rating, Add	160.70	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,513.12	345.52
For Class 52 Rating, Deduct	-108.86	
For Class 54 Rating, Add	74.22	
For Class 55 Rating, Add	164.97	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.90	348.95
For Class 52 Rating, Deduct	-111.67	
For Class 54 Rating, Add	76.14	
For Class 55 Rating, Add	169.23	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,574.69	352.36
For Class 52 Rating, Deduct	-114.49	
For Class 54 Rating, Add	78.06	
For Class 55 Rating, Add	173.50	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,605.47	355.79
For Class 52 Rating, Deduct	-117.30	
For Class 54 Rating, Add	79.98	
For Class 55 Rating, Add	177.77	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,636.25	359.20
For Class 52 Rating, Deduct	-120.12	
For Class 54 Rating, Add	81.90	
For Class 55 Rating, Add	182.04	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,667.03	362.62
For Class 52 Rating, Deduct	-122.94	
For Class 54 Rating, Add	83.82	
For Class 55 Rating, Add	186.30	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,697.81	366.05
For Class 52 Rating, Deduct	-125.75	
For Class 54 Rating, Add	85.74	
For Class 55 Rating, Add	190.57	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,728.60	369.46
For Class 52 Rating, Deduct	-128.57	
For Class 54 Rating, Add	87.66	
For Class 55 Rating, Add	194.84	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,759.38	372.89
For Class 52 Rating, Deduct	-131.38	
For Class 54 Rating, Add	89.58	
For Class 55 Rating, Add	199.11	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,790.16	376.31
For Class 52 Rating, Deduct	-134.20	
For Class 54 Rating, Add	91.50	
For Class 55 Rating, Add	203.37	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	840.87	314.73
For Class 52 Rating, Deduct	-40.04	
For Class 54 Rating, Add	27.30	
For Class 55 Rating, Add	60.68	
40 05 19 00-0085 EA 8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	881.24	318.15
For Class 52 Rating, Deduct	-43.91	
For Class 54 Rating, Add	29.94	
For Class 55 Rating, Add	66.55	
40 05 19 00-0086 EA 8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	921.63	321.57
For Class 52 Rating, Deduct	-47.78	
For Class 54 Rating, Add	32.58	
For Class 55 Rating, Add	72.41	
40 05 19 00-0087 EA 8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	962.01	324.99
For Class 52 Rating, Deduct	-51.66	
For Class 54 Rating, Add	35.22	
For Class 55 Rating, Add	78.28	
40 05 19 00-0088 EA 8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,002.40	328.42
For Class 52 Rating, Deduct	-55.53	
For Class 54 Rating, Add	37.86	
For Class 55 Rating, Add	84.15	
40 05 19 00-0089 EA 8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,042.78	331.83
For Class 52 Rating, Deduct	-59.40	
For Class 54 Rating, Add	40.50	
For Class 55 Rating, Add	90.02	
40 05 19 00-0090 EA 8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,083.16	335.26
For Class 52 Rating, Deduct	-63.27	
For Class 54 Rating, Add	43.14	
For Class 55 Rating, Add	95.89	
40 05 19 00-0091 EA 8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,123.55	338.68
For Class 52 Rating, Deduct	-67.14	
For Class 54 Rating, Add	45.78	
For Class 55 Rating, Add	101.75	
40 05 19 00-0092 EA 8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,163.93	342.10
For Class 52 Rating, Deduct	-71.02	
For Class 54 Rating, Add	48.42	
For Class 55 Rating, Add	107.62	
40 05 19 00-0093 EA 8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,204.32	345.52
For Class 52 Rating, Deduct	-74.89	
For Class 54 Rating, Add	51.06	
For Class 55 Rating, Add	113.49	
40 05 19 00-0094 EA 8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,244.70	348.95
For Class 52 Rating, Deduct	-78.76	
For Class 54 Rating, Add	53.70	
For Class 55 Rating, Add	119.36	
40 05 19 00-0095 EA 8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,285.09	352.36
For Class 52 Rating, Deduct	-82.63	
For Class 54 Rating, Add	56.34	
For Class 55 Rating, Add	125.23	
40 05 19 00-0096 EA 8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.47	355.79
For Class 52 Rating, Deduct	-86.50	
For Class 54 Rating, Add	58.98	
For Class 55 Rating, Add	131.09	
40 05 19 00-0097 EA 8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,365.85	359.20
For Class 52 Rating, Deduct	-90.38	
For Class 54 Rating, Add	61.62	
For Class 55 Rating, Add	136.96	
40 05 19 00-0098 EA 8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,406.23	362.62
For Class 52 Rating, Deduct	-94.25	
For Class 54 Rating, Add	64.26	
For Class 55 Rating, Add	142.83	
40 05 19 00-0099 EA 8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,446.61	366.05
For Class 52 Rating, Deduct	-98.12	
For Class 54 Rating, Add	66.90	
For Class 55 Rating, Add	148.70	
40 05 19 00-0100 EA 8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,487.00	369.46
For Class 52 Rating, Deduct	-101.99	
For Class 54 Rating, Add	69.54	
For Class 55 Rating, Add	154.56	
40 05 19 00-0101 EA 8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,527.38	372.89
For Class 52 Rating, Deduct	-105.86	
For Class 54 Rating, Add	72.18	
For Class 55 Rating, Add	160.43	
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,567.76	376.31
For Class 52 Rating, Deduct	-109.74	
For Class 54 Rating, Add	74.82	
For Class 55 Rating, Add	166.30	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,608.15	379.73
For Class 52 Rating, Deduct	-113.61	
For Class 54 Rating, Add	77.46	
For Class 55 Rating, Add	172.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,648.53	383.15
For Class 52 Rating, Deduct	-117.48	
For Class 54 Rating, Add	80.10	
For Class 55 Rating, Add	178.04	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,688.92	386.57
For Class 52 Rating, Deduct	-121.35	
For Class 54 Rating, Add	82.74	
For Class 55 Rating, Add	183.90	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,729.30	389.99
For Class 52 Rating, Deduct	-125.22	
For Class 54 Rating, Add	85.38	
For Class 55 Rating, Add	189.77	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,769.69	393.42
For Class 52 Rating, Deduct	-129.10	
For Class 54 Rating, Add	88.02	
For Class 55 Rating, Add	195.64	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,810.07	396.83
For Class 52 Rating, Deduct	-132.97	
For Class 54 Rating, Add	90.66	
For Class 55 Rating, Add	201.51	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,850.45	400.26
For Class 52 Rating, Deduct	-136.84	
For Class 54 Rating, Add	93.30	
For Class 55 Rating, Add	207.37	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,890.83	403.68
For Class 52 Rating, Deduct	-140.71	
For Class 54 Rating, Add	95.94	
For Class 55 Rating, Add	213.24	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,931.21	407.10
For Class 52 Rating, Deduct	-144.58	
For Class 54 Rating, Add	98.58	
For Class 55 Rating, Add	219.11	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,971.60	410.52
For Class 52 Rating, Deduct	-148.46	
For Class 54 Rating, Add	101.22	
For Class 55 Rating, Add	224.98	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,011.98	413.94
For Class 52 Rating, Deduct	-152.33	
For Class 54 Rating, Add	103.86	
For Class 55 Rating, Add	230.85	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,052.36	417.36
For Class 52 Rating, Deduct	-156.20	
For Class 54 Rating, Add	106.50	
For Class 55 Rating, Add	236.71	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.75	420.78
For Class 52 Rating, Deduct	-160.07	
For Class 54 Rating, Add	109.14	
For Class 55 Rating, Add	242.58	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,133.13	424.20
For Class 52 Rating, Deduct	-163.94	
For Class 54 Rating, Add	111.78	
For Class 55 Rating, Add	248.45	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,173.52	427.62
For Class 52 Rating, Deduct	-167.82	
For Class 54 Rating, Add	114.42	
For Class 55 Rating, Add	254.32	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,213.90	431.05
For Class 52 Rating, Deduct	-171.69	
For Class 54 Rating, Add	117.06	
For Class 55 Rating, Add	260.19	
40 05 19 00-0119 EA 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,254.28	434.46
For Class 52 Rating, Deduct	-175.56	
For Class 54 Rating, Add	119.70	
For Class 55 Rating, Add	266.05	
40 05 19 00-0120 EA 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,294.67	437.89
For Class 52 Rating, Deduct	-179.43	
For Class 54 Rating, Add	122.34	
For Class 55 Rating, Add	271.92	
40 05 19 00-0121 EA 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,335.05	441.31
For Class 52 Rating, Deduct	-183.30	
For Class 54 Rating, Add	124.98	
For Class 55 Rating, Add	277.79	
40 05 19 00-0122 EA 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,375.43	444.73
For Class 52 Rating, Deduct	-187.18	
For Class 54 Rating, Add	127.62	
For Class 55 Rating, Add	283.66	
40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0124 EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,047.73	383.15
For Class 52 Rating, Deduct	-51.39	
For Class 54 Rating, Add	35.04	
For Class 55 Rating, Add	77.88	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0125	EA	10"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,099.32	386.57
			For Class 52 Rating, Deduct	-56.50	
			For Class 54 Rating, Add	38.52	
			For Class 55 Rating, Add	85.62	
40 05 19 00-0126	EA	10"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,150.90	389.99
			For Class 52 Rating, Deduct	-61.60	
			For Class 54 Rating, Add	42.00	
			For Class 55 Rating, Add	93.35	
40 05 19 00-0127	EA	10"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,202.49	393.42
			For Class 52 Rating, Deduct	-66.70	
			For Class 54 Rating, Add	45.48	
			For Class 55 Rating, Add	101.09	
40 05 19 00-0128	EA	10"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,254.07	396.83
			For Class 52 Rating, Deduct	-71.81	
			For Class 54 Rating, Add	48.96	
			For Class 55 Rating, Add	108.82	
40 05 19 00-0129	EA	10"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,305.65	400.26
			For Class 52 Rating, Deduct	-76.91	
			For Class 54 Rating, Add	52.44	
			For Class 55 Rating, Add	116.56	
40 05 19 00-0130	EA	10"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,357.23	403.68
			For Class 52 Rating, Deduct	-82.02	
			For Class 54 Rating, Add	55.92	
			For Class 55 Rating, Add	124.29	
40 05 19 00-0131	EA	10"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.81	407.10
			For Class 52 Rating, Deduct	-87.12	
			For Class 54 Rating, Add	59.40	
			For Class 55 Rating, Add	132.03	
40 05 19 00-0132	EA	10"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,460.40	410.52
			For Class 52 Rating, Deduct	-92.22	
			For Class 54 Rating, Add	62.88	
			For Class 55 Rating, Add	139.76	
40 05 19 00-0133	EA	10"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,511.98	413.94
			For Class 52 Rating, Deduct	-97.33	
			For Class 54 Rating, Add	66.36	
			For Class 55 Rating, Add	147.50	
40 05 19 00-0134	EA	10"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,563.56	417.36
			For Class 52 Rating, Deduct	-102.43	
			For Class 54 Rating, Add	69.84	
			For Class 55 Rating, Add	155.23	
40 05 19 00-0135	EA	10"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,615.15	420.78
			For Class 52 Rating, Deduct	-107.54	
			For Class 54 Rating, Add	73.32	
			For Class 55 Rating, Add	162.97	
40 05 19 00-0136	EA	10"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,666.73	424.20
			For Class 52 Rating, Deduct	-112.64	
			For Class 54 Rating, Add	76.80	
			For Class 55 Rating, Add	170.70	
40 05 19 00-0137	EA	10"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,718.32	427.62
			For Class 52 Rating, Deduct	-117.74	
			For Class 54 Rating, Add	80.28	
			For Class 55 Rating, Add	178.44	
40 05 19 00-0138	EA	10"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,769.90	431.05
			For Class 52 Rating, Deduct	-122.85	
			For Class 54 Rating, Add	83.76	
			For Class 55 Rating, Add	186.17	
40 05 19 00-0139	EA	10"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,821.48	434.46
			For Class 52 Rating, Deduct	-127.95	
			For Class 54 Rating, Add	87.24	
			For Class 55 Rating, Add	193.91	
40 05 19 00-0140	EA	10"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,873.07	437.89
			For Class 52 Rating, Deduct	-133.06	
			For Class 54 Rating, Add	90.72	
			For Class 55 Rating, Add	201.64	
40 05 19 00-0141	EA	10"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,924.65	441.31
			For Class 52 Rating, Deduct	-138.16	
			For Class 54 Rating, Add	94.20	
			For Class 55 Rating, Add	209.38	
40 05 19 00-0142	EA	10"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,976.23	444.73
			For Class 52 Rating, Deduct	-143.26	
			For Class 54 Rating, Add	97.68	
			For Class 55 Rating, Add	217.11	
40 05 19 00-0143	EA	10"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,027.81	448.15
			For Class 52 Rating, Deduct	-148.37	
			For Class 54 Rating, Add	101.16	
			For Class 55 Rating, Add	224.84	
40 05 19 00-0144	EA	10"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,079.40	451.58
			For Class 52 Rating, Deduct	-153.47	
			For Class 54 Rating, Add	104.64	
			For Class 55 Rating, Add	232.58	
40 05 19 00-0145	EA	10"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,130.98	454.99
			For Class 52 Rating, Deduct	-158.58	
			For Class 54 Rating, Add	108.12	
			For Class 55 Rating, Add	240.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,182.56	458.42
For Class 52 Rating, Deduct	-163.68	
For Class 54 Rating, Add	111.60	
For Class 55 Rating, Add	248.05	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,234.15	461.83
For Class 52 Rating, Deduct	-168.78	
For Class 54 Rating, Add	115.08	
For Class 55 Rating, Add	255.78	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,285.73	465.25
For Class 52 Rating, Deduct	-173.89	
For Class 54 Rating, Add	118.56	
For Class 55 Rating, Add	263.52	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,337.32	468.68
For Class 52 Rating, Deduct	-178.99	
For Class 54 Rating, Add	122.04	
For Class 55 Rating, Add	271.25	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,388.90	472.09
For Class 52 Rating, Deduct	-184.10	
For Class 54 Rating, Add	125.52	
For Class 55 Rating, Add	278.99	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,440.48	475.52
For Class 52 Rating, Deduct	-189.20	
For Class 54 Rating, Add	129.00	
For Class 55 Rating, Add	286.72	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,492.07	478.94
For Class 52 Rating, Deduct	-194.30	
For Class 54 Rating, Add	132.48	
For Class 55 Rating, Add	294.46	
40 05 19 00-0153 EA 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,543.65	482.36
For Class 52 Rating, Deduct	-199.41	
For Class 54 Rating, Add	135.96	
For Class 55 Rating, Add	302.19	
40 05 19 00-0154 EA 10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,595.24	485.78
For Class 52 Rating, Deduct	-204.51	
For Class 54 Rating, Add	139.44	
For Class 55 Rating, Add	309.93	
40 05 19 00-0155 EA 10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,646.01	489.20
For Class 52 Rating, Deduct	-209.53	
For Class 54 Rating, Add	142.86	
For Class 55 Rating, Add	317.53	
40 05 19 00-0156 EA 10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,698.39	492.62
For Class 52 Rating, Deduct	-214.72	
For Class 54 Rating, Add	146.40	
For Class 55 Rating, Add	325.40	
40 05 19 00-0157 EA 10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,749.98	496.05
For Class 52 Rating, Deduct	-219.82	
For Class 54 Rating, Add	149.88	
For Class 55 Rating, Add	333.13	
40 05 19 00-0158 EA 10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,801.56	499.46
For Class 52 Rating, Deduct	-224.93	
For Class 54 Rating, Add	153.36	
For Class 55 Rating, Add	340.87	
40 05 19 00-0159 EA 10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,853.15	502.89
For Class 52 Rating, Deduct	-230.03	
For Class 54 Rating, Add	156.84	
For Class 55 Rating, Add	348.60	
40 05 19 00-0160 EA 10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,904.73	506.31
For Class 52 Rating, Deduct	-235.14	
For Class 54 Rating, Add	160.32	
For Class 55 Rating, Add	356.34	
40 05 19 00-0161 EA 10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,956.32	509.73
For Class 52 Rating, Deduct	-240.24	
For Class 54 Rating, Add	163.80	
For Class 55 Rating, Add	364.07	
40 05 19 00-0162 EA 10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,007.90	513.15
For Class 52 Rating, Deduct	-245.34	
For Class 54 Rating, Add	167.28	
For Class 55 Rating, Add	371.81	
40 05 19 00-0163 12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0164 EA 12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,351.27	478.94
For Class 52 Rating, Deduct	-68.82	
For Class 54 Rating, Add	46.92	
For Class 55 Rating, Add	104.29	
40 05 19 00-0165 EA 12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,414.85	482.36
For Class 52 Rating, Deduct	-75.24	
For Class 54 Rating, Add	51.30	
For Class 55 Rating, Add	114.02	
40 05 19 00-0166 EA 12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.44	485.78
For Class 52 Rating, Deduct	-81.66	
For Class 54 Rating, Add	55.68	
For Class 55 Rating, Add	123.76	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0167	EA	12"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,542.01	489.20
			For Class 52 Rating, Deduct	-88.09	
			For Class 54 Rating, Add	60.06	
			For Class 55 Rating, Add	133.49	
40 05 19 00-0168	EA	12"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,605.59	492.62
			For Class 52 Rating, Deduct	-94.51	
			For Class 54 Rating, Add	64.44	
			For Class 55 Rating, Add	143.23	
40 05 19 00-0169	EA	12"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,669.18	496.05
			For Class 52 Rating, Deduct	-100.94	
			For Class 54 Rating, Add	68.82	
			For Class 55 Rating, Add	152.96	
40 05 19 00-0170	EA	12"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,732.76	499.46
			For Class 52 Rating, Deduct	-107.36	
			For Class 54 Rating, Add	73.20	
			For Class 55 Rating, Add	162.70	
40 05 19 00-0171	EA	12"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,796.35	502.89
			For Class 52 Rating, Deduct	-113.78	
			For Class 54 Rating, Add	77.58	
			For Class 55 Rating, Add	172.43	
40 05 19 00-0172	EA	12"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,859.93	506.31
			For Class 52 Rating, Deduct	-120.21	
			For Class 54 Rating, Add	81.96	
			For Class 55 Rating, Add	182.17	
40 05 19 00-0173	EA	12"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,923.52	509.73
			For Class 52 Rating, Deduct	-126.63	
			For Class 54 Rating, Add	86.34	
			For Class 55 Rating, Add	191.91	
40 05 19 00-0174	EA	12"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,987.10	513.15
			For Class 52 Rating, Deduct	-133.06	
			For Class 54 Rating, Add	90.72	
			For Class 55 Rating, Add	201.64	
40 05 19 00-0175	EA	12"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,050.68	516.57
			For Class 52 Rating, Deduct	-139.48	
			For Class 54 Rating, Add	95.10	
			For Class 55 Rating, Add	211.38	
40 05 19 00-0176	EA	12"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,114.27	519.99
			For Class 52 Rating, Deduct	-145.90	
			For Class 54 Rating, Add	99.48	
			For Class 55 Rating, Add	221.11	
40 05 19 00-0177	EA	12"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,177.85	523.41
			For Class 52 Rating, Deduct	-152.33	
			For Class 54 Rating, Add	103.86	
			For Class 55 Rating, Add	230.85	
40 05 19 00-0178	EA	12"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,241.44	526.83
			For Class 52 Rating, Deduct	-158.75	
			For Class 54 Rating, Add	108.24	
			For Class 55 Rating, Add	240.58	
40 05 19 00-0179	EA	12"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,305.01	530.25
			For Class 52 Rating, Deduct	-165.18	
			For Class 54 Rating, Add	112.62	
			For Class 55 Rating, Add	250.32	
40 05 19 00-0180	EA	12"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,368.59	533.68
			For Class 52 Rating, Deduct	-171.60	
			For Class 54 Rating, Add	117.00	
			For Class 55 Rating, Add	260.05	
40 05 19 00-0181	EA	12"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,432.18	537.09
			For Class 52 Rating, Deduct	-178.02	
			For Class 54 Rating, Add	121.38	
			For Class 55 Rating, Add	269.79	
40 05 19 00-0182	EA	12"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,495.76	540.52
			For Class 52 Rating, Deduct	-184.45	
			For Class 54 Rating, Add	125.76	
			For Class 55 Rating, Add	279.52	
40 05 19 00-0183	EA	12"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,559.35	543.94
			For Class 52 Rating, Deduct	-190.87	
			For Class 54 Rating, Add	130.14	
			For Class 55 Rating, Add	289.26	
40 05 19 00-0184	EA	12"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,622.93	547.36
			For Class 52 Rating, Deduct	-197.30	
			For Class 54 Rating, Add	134.52	
			For Class 55 Rating, Add	298.99	
40 05 19 00-0185	EA	12"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,686.51	550.78
			For Class 52 Rating, Deduct	-203.72	
			For Class 54 Rating, Add	138.90	
			For Class 55 Rating, Add	308.73	
40 05 19 00-0186	EA	12"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,750.10	554.20
			For Class 52 Rating, Deduct	-210.14	
			For Class 54 Rating, Add	143.28	
			For Class 55 Rating, Add	318.46	
40 05 19 00-0187	EA	12"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,813.68	557.62
			For Class 52 Rating, Deduct	-216.57	
			For Class 54 Rating, Add	147.66	
			For Class 55 Rating, Add	328.20	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,877.27	561.05
		For Class 52 Rating, Deduct	-222.99	
		For Class 54 Rating, Add	152.04	
		For Class 55 Rating, Add	337.93	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.85	564.46
		For Class 52 Rating, Deduct	-229.42	
		For Class 54 Rating, Add	156.42	
		For Class 55 Rating, Add	347.67	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,004.44	567.88
		For Class 52 Rating, Deduct	-235.84	
		For Class 54 Rating, Add	160.80	
		For Class 55 Rating, Add	357.40	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,068.01	571.31
		For Class 52 Rating, Deduct	-242.26	
		For Class 54 Rating, Add	165.18	
		For Class 55 Rating, Add	367.14	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,131.59	574.72
		For Class 52 Rating, Deduct	-248.69	
		For Class 54 Rating, Add	169.56	
		For Class 55 Rating, Add	376.88	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,195.18	578.15
		For Class 52 Rating, Deduct	-255.11	
		For Class 54 Rating, Add	173.94	
		For Class 55 Rating, Add	386.61	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,258.76	581.57
		For Class 52 Rating, Deduct	-261.54	
		For Class 54 Rating, Add	178.32	
		For Class 55 Rating, Add	396.35	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,322.35	584.99
		For Class 52 Rating, Deduct	-267.96	
		For Class 54 Rating, Add	182.70	
		For Class 55 Rating, Add	406.08	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,385.93	588.41
		For Class 52 Rating, Deduct	-274.38	
		For Class 54 Rating, Add	187.08	
		For Class 55 Rating, Add	415.82	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,449.51	591.83
		For Class 52 Rating, Deduct	-280.81	
		For Class 54 Rating, Add	191.46	
		For Class 55 Rating, Add	425.55	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,513.10	595.25
		For Class 52 Rating, Deduct	-287.23	
		For Class 54 Rating, Add	195.84	
		For Class 55 Rating, Add	435.29	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.68	598.68
		For Class 52 Rating, Deduct	-293.66	
		For Class 54 Rating, Add	200.22	
		For Class 55 Rating, Add	445.02	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,640.27	602.09
		For Class 52 Rating, Deduct	-300.08	
		For Class 54 Rating, Add	204.60	
		For Class 55 Rating, Add	454.76	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,703.85	605.52
		For Class 52 Rating, Deduct	-306.50	
		For Class 54 Rating, Add	208.98	
		For Class 55 Rating, Add	464.49	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,767.44	608.94
		For Class 52 Rating, Deduct	-312.93	
		For Class 54 Rating, Add	213.36	
		For Class 55 Rating, Add	474.23	
40 05 19 00-0203		14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0204	EA	14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,746.79	574.72
		For Class 52 Rating, Deduct	-96.36	
		For Class 54 Rating, Add	65.70	
		For Class 55 Rating, Add	146.03	
40 05 19 00-0205	EA	14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,823.18	578.15
		For Class 52 Rating, Deduct	-104.19	
		For Class 54 Rating, Add	71.04	
		For Class 55 Rating, Add	157.90	
40 05 19 00-0206	EA	14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,899.56	581.57
		For Class 52 Rating, Deduct	-112.02	
		For Class 54 Rating, Add	76.38	
		For Class 55 Rating, Add	169.77	
40 05 19 00-0207	EA	14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,975.95	584.99
		For Class 52 Rating, Deduct	-119.86	
		For Class 54 Rating, Add	81.72	
		For Class 55 Rating, Add	181.64	
40 05 19 00-0208	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,052.33	588.41
		For Class 52 Rating, Deduct	-127.69	
		For Class 54 Rating, Add	87.06	
		For Class 55 Rating, Add	193.51	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0209	EA	14"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,128.71	591.83
			For Class 52 Rating, Deduct	-135.52	
			For Class 54 Rating, Add	92.40	
			For Class 55 Rating, Add	205.37	
40 05 19 00-0210	EA	14"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,205.10	595.25
			For Class 52 Rating, Deduct	-143.35	
			For Class 54 Rating, Add	97.74	
			For Class 55 Rating, Add	217.24	
40 05 19 00-0211	EA	14"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,281.48	598.68
			For Class 52 Rating, Deduct	-151.18	
			For Class 54 Rating, Add	103.08	
			For Class 55 Rating, Add	229.11	
40 05 19 00-0212	EA	14"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,357.87	602.09
			For Class 52 Rating, Deduct	-159.02	
			For Class 54 Rating, Add	108.42	
			For Class 55 Rating, Add	240.98	
40 05 19 00-0213	EA	14"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,434.25	605.52
			For Class 52 Rating, Deduct	-166.85	
			For Class 54 Rating, Add	113.76	
			For Class 55 Rating, Add	252.85	
40 05 19 00-0214	EA	14"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,510.64	608.94
			For Class 52 Rating, Deduct	-174.68	
			For Class 54 Rating, Add	119.10	
			For Class 55 Rating, Add	264.72	
40 05 19 00-0215	EA	14"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,587.02	612.36
			For Class 52 Rating, Deduct	-182.51	
			For Class 54 Rating, Add	124.44	
			For Class 55 Rating, Add	276.59	
40 05 19 00-0216	EA	14"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,663.39	615.78
			For Class 52 Rating, Deduct	-190.34	
			For Class 54 Rating, Add	129.78	
			For Class 55 Rating, Add	288.46	
40 05 19 00-0217	EA	14"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,739.78	619.20
			For Class 52 Rating, Deduct	-198.18	
			For Class 54 Rating, Add	135.12	
			For Class 55 Rating, Add	300.33	
40 05 19 00-0218	EA	14"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,816.16	622.62
			For Class 52 Rating, Deduct	-206.01	
			For Class 54 Rating, Add	140.46	
			For Class 55 Rating, Add	312.20	
40 05 19 00-0219	EA	14"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,892.55	626.04
			For Class 52 Rating, Deduct	-213.84	
			For Class 54 Rating, Add	145.80	
			For Class 55 Rating, Add	324.06	
40 05 19 00-0220	EA	14"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,968.93	629.46
			For Class 52 Rating, Deduct	-221.67	
			For Class 54 Rating, Add	151.14	
			For Class 55 Rating, Add	335.93	
40 05 19 00-0221	EA	14"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,045.31	632.88
			For Class 52 Rating, Deduct	-229.50	
			For Class 54 Rating, Add	156.48	
			For Class 55 Rating, Add	347.80	
40 05 19 00-0222	EA	14"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,121.70	636.31
			For Class 52 Rating, Deduct	-237.34	
			For Class 54 Rating, Add	161.82	
			For Class 55 Rating, Add	359.67	
40 05 19 00-0223	EA	14"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,198.08	639.72
			For Class 52 Rating, Deduct	-245.17	
			For Class 54 Rating, Add	167.16	
			For Class 55 Rating, Add	371.54	
40 05 19 00-0224	EA	14"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,274.47	643.15
			For Class 52 Rating, Deduct	-253.00	
			For Class 54 Rating, Add	172.50	
			For Class 55 Rating, Add	383.41	
40 05 19 00-0225	EA	14"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,350.85	646.57
			For Class 52 Rating, Deduct	-260.83	
			For Class 54 Rating, Add	177.84	
			For Class 55 Rating, Add	395.28	
40 05 19 00-0226	EA	14"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,427.23	649.99
			For Class 52 Rating, Deduct	-268.66	
			For Class 54 Rating, Add	183.18	
			For Class 55 Rating, Add	407.15	
40 05 19 00-0227	EA	14"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.62	653.41
			For Class 52 Rating, Deduct	-276.50	
			For Class 54 Rating, Add	188.52	
			For Class 55 Rating, Add	419.02	
40 05 19 00-0228	EA	14"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,579.99	656.83
			For Class 52 Rating, Deduct	-284.33	
			For Class 54 Rating, Add	193.86	
			For Class 55 Rating, Add	430.89	
40 05 19 00-0229	EA	14"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,656.38	660.25
			For Class 52 Rating, Deduct	-292.16	
			For Class 54 Rating, Add	199.20	
			For Class 55 Rating, Add	442.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0230 EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,732.76	663.68
For Class 52 Rating, Deduct	-299.99	
For Class 54 Rating, Add	204.54	
For Class 55 Rating, Add	454.62	
40 05 19 00-0231 EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,809.15	667.09
For Class 52 Rating, Deduct	-307.82	
For Class 54 Rating, Add	209.88	
For Class 55 Rating, Add	466.49	
40 05 19 00-0232 EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,885.53	670.51
For Class 52 Rating, Deduct	-315.66	
For Class 54 Rating, Add	215.22	
For Class 55 Rating, Add	478.36	
40 05 19 00-0233 EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,961.91	673.94
For Class 52 Rating, Deduct	-323.49	
For Class 54 Rating, Add	220.56	
For Class 55 Rating, Add	490.23	
40 05 19 00-0234 EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,038.30	677.35
For Class 52 Rating, Deduct	-331.32	
For Class 54 Rating, Add	225.90	
For Class 55 Rating, Add	502.10	
40 05 19 00-0235 EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,114.68	680.78
For Class 52 Rating, Deduct	-339.15	
For Class 54 Rating, Add	231.24	
For Class 55 Rating, Add	513.97	
40 05 19 00-0236 EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,191.07	684.20
For Class 52 Rating, Deduct	-346.98	
For Class 54 Rating, Add	236.58	
For Class 55 Rating, Add	525.84	
40 05 19 00-0237 EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,267.45	687.62
For Class 52 Rating, Deduct	-354.82	
For Class 54 Rating, Add	241.92	
For Class 55 Rating, Add	537.71	
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,343.83	691.04
For Class 52 Rating, Deduct	-362.65	
For Class 54 Rating, Add	247.26	
For Class 55 Rating, Add	549.58	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,420.22	694.46
For Class 52 Rating, Deduct	-370.48	
For Class 54 Rating, Add	252.60	
For Class 55 Rating, Add	561.45	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,496.60	697.88
For Class 52 Rating, Deduct	-378.31	
For Class 54 Rating, Add	257.94	
For Class 55 Rating, Add	573.31	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,572.98	701.31
For Class 52 Rating, Deduct	-386.14	
For Class 54 Rating, Add	263.28	
For Class 55 Rating, Add	585.18	
40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,033.59	656.83
For Class 52 Rating, Deduct	-114.22	
For Class 54 Rating, Add	77.88	
For Class 55 Rating, Add	173.10	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,121.98	660.25
For Class 52 Rating, Deduct	-123.38	
For Class 54 Rating, Add	84.12	
For Class 55 Rating, Add	186.97	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,210.36	663.68
For Class 52 Rating, Deduct	-132.53	
For Class 54 Rating, Add	90.36	
For Class 55 Rating, Add	200.84	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,298.75	667.09
For Class 52 Rating, Deduct	-141.68	
For Class 54 Rating, Add	96.60	
For Class 55 Rating, Add	214.71	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,387.13	670.51
For Class 52 Rating, Deduct	-150.83	
For Class 54 Rating, Add	102.84	
For Class 55 Rating, Add	228.58	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,475.51	673.94
For Class 52 Rating, Deduct	-159.98	
For Class 54 Rating, Add	109.08	
For Class 55 Rating, Add	242.45	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,563.90	677.35
For Class 52 Rating, Deduct	-169.14	
For Class 54 Rating, Add	115.32	
For Class 55 Rating, Add	256.32	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,652.28	680.78
For Class 52 Rating, Deduct	-178.29	
For Class 54 Rating, Add	121.56	
For Class 55 Rating, Add	270.19	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0251	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,740.67	684.20	
		For Class 52 Rating, Deduct	-187.44		
		For Class 54 Rating, Add	127.80		
		For Class 55 Rating, Add	284.06		
40 05 19 00-0252	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,829.05	687.62	
		For Class 52 Rating, Deduct	-196.59		
		For Class 54 Rating, Add	134.04		
		For Class 55 Rating, Add	297.93		
40 05 19 00-0253	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,917.43	691.04	
		For Class 52 Rating, Deduct	-205.74		
		For Class 54 Rating, Add	140.28		
		For Class 55 Rating, Add	311.80		
40 05 19 00-0254	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,005.82	694.46	
		For Class 52 Rating, Deduct	-214.90		
		For Class 54 Rating, Add	146.52		
		For Class 55 Rating, Add	325.67		
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,094.20	697.88	
		For Class 52 Rating, Deduct	-224.05		
		For Class 54 Rating, Add	152.76		
		For Class 55 Rating, Add	339.53		
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,182.58	701.31	
		For Class 52 Rating, Deduct	-233.20		
		For Class 54 Rating, Add	159.00		
		For Class 55 Rating, Add	353.40		
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,270.96	704.72	
		For Class 52 Rating, Deduct	-242.35		
		For Class 54 Rating, Add	165.24		
		For Class 55 Rating, Add	367.27		
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,359.35	708.15	
		For Class 52 Rating, Deduct	-251.50		
		For Class 54 Rating, Add	171.48		
		For Class 55 Rating, Add	381.14		
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,447.73	711.57	
		For Class 52 Rating, Deduct	-260.66		
		For Class 54 Rating, Add	177.72		
		For Class 55 Rating, Add	395.01		
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,536.11	714.99	
		For Class 52 Rating, Deduct	-269.81		
		For Class 54 Rating, Add	183.96		
		For Class 55 Rating, Add	408.88		
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,624.50	718.41	
		For Class 52 Rating, Deduct	-278.96		
		For Class 54 Rating, Add	190.20		
		For Class 55 Rating, Add	422.75		
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,712.88	721.82	
		For Class 52 Rating, Deduct	-288.11		
		For Class 54 Rating, Add	196.44		
		For Class 55 Rating, Add	436.62		
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,801.27	725.25	
		For Class 52 Rating, Deduct	-297.26		
		For Class 54 Rating, Add	202.68		
		For Class 55 Rating, Add	450.49		
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,889.65	728.67	
		For Class 52 Rating, Deduct	-306.42		
		For Class 54 Rating, Add	208.92		
		For Class 55 Rating, Add	464.36		
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,978.03	732.09	
		For Class 52 Rating, Deduct	-315.57		
		For Class 54 Rating, Add	215.16		
		For Class 55 Rating, Add	478.23		
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,066.42	735.51	
		For Class 52 Rating, Deduct	-324.72		
		For Class 54 Rating, Add	221.40		
		For Class 55 Rating, Add	492.10		
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,154.80	738.94	
		For Class 52 Rating, Deduct	-333.87		
		For Class 54 Rating, Add	227.64		
		For Class 55 Rating, Add	505.97		
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,243.18	742.35	
		For Class 52 Rating, Deduct	-343.02		
		For Class 54 Rating, Add	233.88		
		For Class 55 Rating, Add	519.84		
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,331.56	745.78	
		For Class 52 Rating, Deduct	-352.18		
		For Class 54 Rating, Add	240.12		
		For Class 55 Rating, Add	533.71		
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,419.94	749.20	
		For Class 52 Rating, Deduct	-361.33		
		For Class 54 Rating, Add	246.36		
		For Class 55 Rating, Add	547.58		
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,508.33	752.62	
		For Class 52 Rating, Deduct	-370.48		
		For Class 54 Rating, Add	252.60		
		For Class 55 Rating, Add	561.45		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,596.71	756.04
For Class 52 Rating, Deduct	-379.63	
For Class 54 Rating, Add	258.84	
For Class 55 Rating, Add	575.32	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,685.10	759.46
For Class 52 Rating, Deduct	-388.78	
For Class 54 Rating, Add	265.08	
For Class 55 Rating, Add	589.18	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,773.48	762.88
For Class 52 Rating, Deduct	-397.94	
For Class 54 Rating, Add	271.32	
For Class 55 Rating, Add	603.05	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,861.87	766.31
For Class 52 Rating, Deduct	-407.09	
For Class 54 Rating, Add	277.56	
For Class 55 Rating, Add	616.92	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,950.25	769.72
For Class 52 Rating, Deduct	-416.24	
For Class 54 Rating, Add	283.80	
For Class 55 Rating, Add	630.79	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,038.63	773.14
For Class 52 Rating, Deduct	-425.39	
For Class 54 Rating, Add	290.04	
For Class 55 Rating, Add	644.66	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,127.02	776.57
For Class 52 Rating, Deduct	-434.54	
For Class 54 Rating, Add	296.28	
For Class 55 Rating, Add	658.53	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,215.40	779.98
For Class 52 Rating, Deduct	-443.70	
For Class 54 Rating, Add	302.52	
For Class 55 Rating, Add	672.40	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,303.78	783.41
For Class 52 Rating, Deduct	-452.85	
For Class 54 Rating, Add	308.76	
For Class 55 Rating, Add	686.27	
40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,345.67	740.31
For Class 52 Rating, Deduct	-134.64	
For Class 54 Rating, Add	91.80	
For Class 55 Rating, Add	204.04	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,446.85	743.72
For Class 52 Rating, Deduct	-145.20	
For Class 54 Rating, Add	99.00	
For Class 55 Rating, Add	220.04	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,548.04	747.15
For Class 52 Rating, Deduct	-155.76	
For Class 54 Rating, Add	106.20	
For Class 55 Rating, Add	236.05	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,649.22	750.57
For Class 52 Rating, Deduct	-166.32	
For Class 54 Rating, Add	113.40	
For Class 55 Rating, Add	252.05	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,750.40	753.98
For Class 52 Rating, Deduct	-176.88	
For Class 54 Rating, Add	120.60	
For Class 55 Rating, Add	268.05	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,851.59	757.41
For Class 52 Rating, Deduct	-187.44	
For Class 54 Rating, Add	127.80	
For Class 55 Rating, Add	284.06	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,952.77	760.82
For Class 52 Rating, Deduct	-198.00	
For Class 54 Rating, Add	135.00	
For Class 55 Rating, Add	300.06	
40 05 19 00-0289 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,053.96	764.25
For Class 52 Rating, Deduct	-208.56	
For Class 54 Rating, Add	142.20	
For Class 55 Rating, Add	316.06	
40 05 19 00-0290 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,155.14	767.67
For Class 52 Rating, Deduct	-219.12	
For Class 54 Rating, Add	149.40	
For Class 55 Rating, Add	332.07	
40 05 19 00-0291 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,256.33	771.09
For Class 52 Rating, Deduct	-229.68	
For Class 54 Rating, Add	156.60	
For Class 55 Rating, Add	348.07	
40 05 19 00-0292 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,357.50	774.51
For Class 52 Rating, Deduct	-240.24	
For Class 54 Rating, Add	163.80	
For Class 55 Rating, Add	364.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0293	EA	18"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,458.68	777.94
			For Class 52 Rating, Deduct	-250.80	
			For Class 54 Rating, Add	171.00	
			For Class 55 Rating, Add	380.08	
40 05 19 00-0294	EA	18"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,559.87	781.35
			For Class 52 Rating, Deduct	-261.36	
			For Class 54 Rating, Add	178.20	
			For Class 55 Rating, Add	396.08	
40 05 19 00-0295	EA	18"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,661.05	784.78
			For Class 52 Rating, Deduct	-271.92	
			For Class 54 Rating, Add	185.40	
			For Class 55 Rating, Add	412.08	
40 05 19 00-0296	EA	18"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,762.24	788.20
			For Class 52 Rating, Deduct	-282.48	
			For Class 54 Rating, Add	192.60	
			For Class 55 Rating, Add	428.09	
40 05 19 00-0297	EA	18"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.42	791.62
			For Class 52 Rating, Deduct	-293.04	
			For Class 54 Rating, Add	199.80	
			For Class 55 Rating, Add	444.09	
40 05 19 00-0298	EA	18"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,964.60	795.04
			For Class 52 Rating, Deduct	-303.60	
			For Class 54 Rating, Add	207.00	
			For Class 55 Rating, Add	460.09	
40 05 19 00-0299	EA	18"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,065.79	798.46
			For Class 52 Rating, Deduct	-314.16	
			For Class 54 Rating, Add	214.20	
			For Class 55 Rating, Add	476.10	
40 05 19 00-0300	EA	18"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,166.97	801.88
			For Class 52 Rating, Deduct	-324.72	
			For Class 54 Rating, Add	221.40	
			For Class 55 Rating, Add	492.10	
40 05 19 00-0301	EA	18"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,268.16	805.30
			For Class 52 Rating, Deduct	-335.28	
			For Class 54 Rating, Add	228.60	
			For Class 55 Rating, Add	508.10	
40 05 19 00-0302	EA	18"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,369.34	808.72
			For Class 52 Rating, Deduct	-345.84	
			For Class 54 Rating, Add	235.80	
			For Class 55 Rating, Add	524.10	
40 05 19 00-0303	EA	18"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,470.52	812.14
			For Class 52 Rating, Deduct	-356.40	
			For Class 54 Rating, Add	243.00	
			For Class 55 Rating, Add	540.11	
40 05 19 00-0304	EA	18"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,571.71	815.57
			For Class 52 Rating, Deduct	-366.96	
			For Class 54 Rating, Add	250.20	
			For Class 55 Rating, Add	556.11	
40 05 19 00-0305	EA	18"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,672.88	818.98
			For Class 52 Rating, Deduct	-377.52	
			For Class 54 Rating, Add	257.40	
			For Class 55 Rating, Add	572.11	
40 05 19 00-0306	EA	18"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,774.07	822.41
			For Class 52 Rating, Deduct	-388.08	
			For Class 54 Rating, Add	264.60	
			For Class 55 Rating, Add	588.12	
40 05 19 00-0307	EA	18"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,875.25	825.83
			For Class 52 Rating, Deduct	-398.64	
			For Class 54 Rating, Add	271.80	
			For Class 55 Rating, Add	604.12	
40 05 19 00-0308	EA	18"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,976.44	829.25
			For Class 52 Rating, Deduct	-409.20	
			For Class 54 Rating, Add	279.00	
			For Class 55 Rating, Add	620.12	
40 05 19 00-0309	EA	18"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,077.62	832.67
			For Class 52 Rating, Deduct	-419.76	
			For Class 54 Rating, Add	286.20	
			For Class 55 Rating, Add	636.13	
40 05 19 00-0310	EA	18"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,178.80	836.09
			For Class 52 Rating, Deduct	-430.32	
			For Class 54 Rating, Add	293.40	
			For Class 55 Rating, Add	652.13	
40 05 19 00-0311	EA	18"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,279.99	839.51
			For Class 52 Rating, Deduct	-440.88	
			For Class 54 Rating, Add	300.60	
			For Class 55 Rating, Add	668.13	
40 05 19 00-0312	EA	18"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,381.17	842.94
			For Class 52 Rating, Deduct	-451.44	
			For Class 54 Rating, Add	307.80	
			For Class 55 Rating, Add	684.14	
40 05 19 00-0313	EA	18"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,482.36	846.35
			For Class 52 Rating, Deduct	-462.00	
			For Class 54 Rating, Add	315.00	
			For Class 55 Rating, Add	700.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,583.54	849.78
For Class 52 Rating, Deduct	-472.56	
For Class 54 Rating, Add	322.20	
For Class 55 Rating, Add	716.14	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,684.72	853.20
For Class 52 Rating, Deduct	-483.12	
For Class 54 Rating, Add	329.40	
For Class 55 Rating, Add	732.15	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,785.91	856.61
For Class 52 Rating, Deduct	-493.68	
For Class 54 Rating, Add	336.60	
For Class 55 Rating, Add	748.15	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,887.08	860.04
For Class 52 Rating, Deduct	-504.24	
For Class 54 Rating, Add	343.80	
For Class 55 Rating, Add	764.15	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,988.27	863.45
For Class 52 Rating, Deduct	-514.80	
For Class 54 Rating, Add	351.00	
For Class 55 Rating, Add	780.16	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,089.45	866.88
For Class 52 Rating, Deduct	-525.36	
For Class 54 Rating, Add	358.20	
For Class 55 Rating, Add	796.16	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,727.48	844.98
For Class 52 Rating, Deduct	-159.19	
For Class 54 Rating, Add	108.54	
For Class 55 Rating, Add	241.25	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,843.06	848.41
For Class 52 Rating, Deduct	-171.34	
For Class 54 Rating, Add	116.82	
For Class 55 Rating, Add	259.65	
40 05 19 00-0323 EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,958.65	851.83
For Class 52 Rating, Deduct	-183.48	
For Class 54 Rating, Add	125.10	
For Class 55 Rating, Add	278.06	
40 05 19 00-0324 EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,074.23	855.25
For Class 52 Rating, Deduct	-195.62	
For Class 54 Rating, Add	133.38	
For Class 55 Rating, Add	296.46	
40 05 19 00-0325 EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,189.82	858.67
For Class 52 Rating, Deduct	-207.77	
For Class 54 Rating, Add	141.66	
For Class 55 Rating, Add	314.86	
40 05 19 00-0326 EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,305.40	862.09
For Class 52 Rating, Deduct	-219.91	
For Class 54 Rating, Add	149.94	
For Class 55 Rating, Add	333.27	
40 05 19 00-0327 EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,420.98	865.51
For Class 52 Rating, Deduct	-232.06	
For Class 54 Rating, Add	158.22	
For Class 55 Rating, Add	351.67	
40 05 19 00-0328 EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,536.56	868.94
For Class 52 Rating, Deduct	-244.20	
For Class 54 Rating, Add	166.50	
For Class 55 Rating, Add	370.07	
40 05 19 00-0329 EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,652.14	872.35
For Class 52 Rating, Deduct	-256.34	
For Class 54 Rating, Add	174.78	
For Class 55 Rating, Add	388.48	
40 05 19 00-0330 EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,767.73	875.77
For Class 52 Rating, Deduct	-268.49	
For Class 54 Rating, Add	183.06	
For Class 55 Rating, Add	406.88	
40 05 19 00-0331 EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,883.31	879.20
For Class 52 Rating, Deduct	-280.63	
For Class 54 Rating, Add	191.34	
For Class 55 Rating, Add	425.29	
40 05 19 00-0332 EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,998.90	882.61
For Class 52 Rating, Deduct	-292.78	
For Class 54 Rating, Add	199.62	
For Class 55 Rating, Add	443.69	
40 05 19 00-0333 EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,114.48	886.04
For Class 52 Rating, Deduct	-304.92	
For Class 54 Rating, Add	207.90	
For Class 55 Rating, Add	462.09	
40 05 19 00-0334 EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,230.06	889.45
For Class 52 Rating, Deduct	-317.06	
For Class 54 Rating, Add	216.18	
For Class 55 Rating, Add	480.50	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,345.65	892.88
		For Class 52 Rating, Deduct	-329.21	
		For Class 54 Rating, Add	224.46	
		For Class 55 Rating, Add	498.90	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,461.23	896.30
		For Class 52 Rating, Deduct	-341.35	
		For Class 54 Rating, Add	232.74	
		For Class 55 Rating, Add	517.30	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,576.82	899.72
		For Class 52 Rating, Deduct	-353.50	
		For Class 54 Rating, Add	241.02	
		For Class 55 Rating, Add	535.71	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,692.40	903.14
		For Class 52 Rating, Deduct	-365.64	
		For Class 54 Rating, Add	249.30	
		For Class 55 Rating, Add	554.11	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,807.98	906.57
		For Class 52 Rating, Deduct	-377.78	
		For Class 54 Rating, Add	257.58	
		For Class 55 Rating, Add	572.51	
40 05 19 00-0340	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,923.56	909.98
		For Class 52 Rating, Deduct	-389.93	
		For Class 54 Rating, Add	265.86	
		For Class 55 Rating, Add	590.92	
40 05 19 00-0341	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,039.14	913.41
		For Class 52 Rating, Deduct	-402.07	
		For Class 54 Rating, Add	274.14	
		For Class 55 Rating, Add	609.32	
40 05 19 00-0342	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,154.73	916.83
		For Class 52 Rating, Deduct	-414.22	
		For Class 54 Rating, Add	282.42	
		For Class 55 Rating, Add	627.73	
40 05 19 00-0343	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,270.31	920.25
		For Class 52 Rating, Deduct	-426.36	
		For Class 54 Rating, Add	290.70	
		For Class 55 Rating, Add	646.13	
40 05 19 00-0344	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,385.90	923.67
		For Class 52 Rating, Deduct	-438.50	
		For Class 54 Rating, Add	298.98	
		For Class 55 Rating, Add	664.53	
40 05 19 00-0345	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,501.48	927.08
		For Class 52 Rating, Deduct	-450.65	
		For Class 54 Rating, Add	307.26	
		For Class 55 Rating, Add	682.94	
40 05 19 00-0346	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,617.06	930.51
		For Class 52 Rating, Deduct	-462.79	
		For Class 54 Rating, Add	315.54	
		For Class 55 Rating, Add	701.34	
40 05 19 00-0347	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,732.65	933.93
		For Class 52 Rating, Deduct	-474.94	
		For Class 54 Rating, Add	323.82	
		For Class 55 Rating, Add	719.74	
40 05 19 00-0348	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,848.23	937.35
		For Class 52 Rating, Deduct	-487.08	
		For Class 54 Rating, Add	332.10	
		For Class 55 Rating, Add	738.15	
40 05 19 00-0349	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,963.82	940.77
		For Class 52 Rating, Deduct	-499.22	
		For Class 54 Rating, Add	340.38	
		For Class 55 Rating, Add	756.55	
40 05 19 00-0350	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,079.40	944.20
		For Class 52 Rating, Deduct	-511.37	
		For Class 54 Rating, Add	348.66	
		For Class 55 Rating, Add	774.95	
40 05 19 00-0351	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,194.98	947.61
		For Class 52 Rating, Deduct	-523.51	
		For Class 54 Rating, Add	356.94	
		For Class 55 Rating, Add	793.36	
40 05 19 00-0352	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,310.57	951.04
		For Class 52 Rating, Deduct	-535.66	
		For Class 54 Rating, Add	365.22	
		For Class 55 Rating, Add	811.76	
40 05 19 00-0353	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,426.14	954.46
		For Class 52 Rating, Deduct	-547.80	
		For Class 54 Rating, Add	373.50	
		For Class 55 Rating, Add	830.17	
40 05 19 00-0354	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,541.73	957.88
		For Class 52 Rating, Deduct	-559.94	
		For Class 54 Rating, Add	381.78	
		For Class 55 Rating, Add	848.57	
40 05 19 00-0355	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,657.31	961.30
		For Class 52 Rating, Deduct	-572.09	
		For Class 54 Rating, Add	390.06	
		For Class 55 Rating, Add	866.97	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0356	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,772.89	964.72
		For Class 52 Rating, Deduct	-584.23	
		For Class 54 Rating, Add	398.34	
		For Class 55 Rating, Add	885.38	
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,888.48	968.14
		For Class 52 Rating, Deduct	-596.38	
		For Class 54 Rating, Add	406.62	
		For Class 55 Rating, Add	903.78	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,004.06	971.57
		For Class 52 Rating, Deduct	-608.52	
		For Class 54 Rating, Add	414.90	
		For Class 55 Rating, Add	922.18	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)				
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,319.93	998.93
		For Class 52 Rating, Deduct	-198.70	
		For Class 54 Rating, Add	135.48	
		For Class 55 Rating, Add	301.13	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,461.91	1,002.35
		For Class 52 Rating, Deduct	-213.75	
		For Class 54 Rating, Add	145.74	
		For Class 55 Rating, Add	323.93	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,603.89	1,005.77
		For Class 52 Rating, Deduct	-228.80	
		For Class 54 Rating, Add	156.00	
		For Class 55 Rating, Add	346.74	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,745.88	1,009.20
		For Class 52 Rating, Deduct	-243.85	
		For Class 54 Rating, Add	166.26	
		For Class 55 Rating, Add	369.54	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,887.86	1,012.61
		For Class 52 Rating, Deduct	-258.90	
		For Class 54 Rating, Add	176.52	
		For Class 55 Rating, Add	392.35	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,029.85	1,016.04
		For Class 52 Rating, Deduct	-273.94	
		For Class 54 Rating, Add	186.78	
		For Class 55 Rating, Add	415.15	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,171.83	1,019.46
		For Class 52 Rating, Deduct	-288.99	
		For Class 54 Rating, Add	197.04	
		For Class 55 Rating, Add	437.95	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,313.82	1,022.88
		For Class 52 Rating, Deduct	-304.04	
		For Class 54 Rating, Add	207.30	
		For Class 55 Rating, Add	460.76	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,455.80	1,026.30
		For Class 52 Rating, Deduct	-319.09	
		For Class 54 Rating, Add	217.56	
		For Class 55 Rating, Add	483.56	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,597.78	1,029.71
		For Class 52 Rating, Deduct	-334.14	
		For Class 54 Rating, Add	227.82	
		For Class 55 Rating, Add	506.37	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,739.77	1,033.14
		For Class 52 Rating, Deduct	-349.18	
		For Class 54 Rating, Add	238.08	
		For Class 55 Rating, Add	529.17	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,881.75	1,036.56
		For Class 52 Rating, Deduct	-364.23	
		For Class 54 Rating, Add	248.34	
		For Class 55 Rating, Add	551.98	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,023.73	1,039.98
		For Class 52 Rating, Deduct	-379.28	
		For Class 54 Rating, Add	258.60	
		For Class 55 Rating, Add	574.78	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,165.71	1,043.40
		For Class 52 Rating, Deduct	-394.33	
		For Class 54 Rating, Add	268.86	
		For Class 55 Rating, Add	597.59	
40 05 19 00-0374	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,307.69	1,046.83
		For Class 52 Rating, Deduct	-409.38	
		For Class 54 Rating, Add	279.12	
		For Class 55 Rating, Add	620.39	
40 05 19 00-0375	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,449.68	1,050.24
		For Class 52 Rating, Deduct	-424.42	
		For Class 54 Rating, Add	289.38	
		For Class 55 Rating, Add	643.20	
40 05 19 00-0376	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,591.66	1,053.67
		For Class 52 Rating, Deduct	-439.47	
		For Class 54 Rating, Add	299.64	
		For Class 55 Rating, Add	666.00	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0377	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,733.65	1,057.08
		For Class 52 Rating, Deduct	-454.52	
		For Class 54 Rating, Add	309.90	
		For Class 55 Rating, Add	688.80	
40 05 19 00-0378	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,875.63	1,060.51
		For Class 52 Rating, Deduct	-469.57	
		For Class 54 Rating, Add	320.16	
		For Class 55 Rating, Add	711.61	
40 05 19 00-0379	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,017.61	1,063.93
		For Class 52 Rating, Deduct	-484.62	
		For Class 54 Rating, Add	330.42	
		For Class 55 Rating, Add	734.41	
40 05 19 00-0380	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,159.60	1,067.35
		For Class 52 Rating, Deduct	-499.66	
		For Class 54 Rating, Add	340.68	
		For Class 55 Rating, Add	757.22	
40 05 19 00-0381	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,301.58	1,070.77
		For Class 52 Rating, Deduct	-514.71	
		For Class 54 Rating, Add	350.94	
		For Class 55 Rating, Add	780.02	
40 05 19 00-0382	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,443.57	1,074.20
		For Class 52 Rating, Deduct	-529.76	
		For Class 54 Rating, Add	361.20	
		For Class 55 Rating, Add	802.83	
40 05 19 00-0383	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,585.55	1,077.61
		For Class 52 Rating, Deduct	-544.81	
		For Class 54 Rating, Add	371.46	
		For Class 55 Rating, Add	825.63	
40 05 19 00-0384	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,727.53	1,081.03
		For Class 52 Rating, Deduct	-559.86	
		For Class 54 Rating, Add	381.72	
		For Class 55 Rating, Add	848.44	
40 05 19 00-0385	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,869.51	1,084.46
		For Class 52 Rating, Deduct	-574.90	
		For Class 54 Rating, Add	391.98	
		For Class 55 Rating, Add	871.24	
40 05 19 00-0386	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,011.49	1,087.87
		For Class 52 Rating, Deduct	-589.95	
		For Class 54 Rating, Add	402.24	
		For Class 55 Rating, Add	894.05	
40 05 19 00-0387	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,153.48	1,091.30
		For Class 52 Rating, Deduct	-605.00	
		For Class 54 Rating, Add	412.50	
		For Class 55 Rating, Add	916.85	
40 05 19 00-0388	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,295.46	1,094.71
		For Class 52 Rating, Deduct	-620.05	
		For Class 54 Rating, Add	422.76	
		For Class 55 Rating, Add	939.65	
40 05 19 00-0389	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,525.57	1,156.30
		For Class 52 Rating, Deduct	-635.10	
		For Class 54 Rating, Add	433.02	
		For Class 55 Rating, Add	962.46	
40 05 19 00-0390	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,667.55	1,159.71
		For Class 52 Rating, Deduct	-650.14	
		For Class 54 Rating, Add	443.28	
		For Class 55 Rating, Add	985.26	
40 05 19 00-0391	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,809.53	1,163.14
		For Class 52 Rating, Deduct	-665.19	
		For Class 54 Rating, Add	453.54	
		For Class 55 Rating, Add	1,008.07	
40 05 19 00-0392	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,951.51	1,166.56
		For Class 52 Rating, Deduct	-680.24	
		For Class 54 Rating, Add	463.80	
		For Class 55 Rating, Add	1,030.87	
40 05 19 00-0393	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,093.49	1,169.98
		For Class 52 Rating, Deduct	-695.29	
		For Class 54 Rating, Add	474.06	
		For Class 55 Rating, Add	1,053.68	
40 05 19 00-0394	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,235.48	1,173.40
		For Class 52 Rating, Deduct	-710.34	
		For Class 54 Rating, Add	484.32	
		For Class 55 Rating, Add	1,076.48	
40 05 19 00-0395	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,377.46	1,176.83
		For Class 52 Rating, Deduct	-725.38	
		For Class 54 Rating, Add	494.58	
		For Class 55 Rating, Add	1,099.29	
40 05 19 00-0396	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,519.45	1,180.24
		For Class 52 Rating, Deduct	-740.43	
		For Class 54 Rating, Add	504.84	
		For Class 55 Rating, Add	1,122.09	
40 05 19 00-0397	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,661.43	1,183.66
		For Class 52 Rating, Deduct	-755.48	
		For Class 54 Rating, Add	515.10	
		For Class 55 Rating, Add	1,144.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0399 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,007.53	1,409.45
For Class 52 Rating, Deduct	-315.92	
For Class 54 Rating, Add	215.40	
For Class 55 Rating, Add	478.76	
40 05 19 00-0400 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,210.32	1,412.87
For Class 52 Rating, Deduct	-337.66	
For Class 54 Rating, Add	230.22	
For Class 55 Rating, Add	511.70	
40 05 19 00-0401 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,413.10	1,416.29
For Class 52 Rating, Deduct	-359.39	
For Class 54 Rating, Add	245.04	
For Class 55 Rating, Add	544.64	
40 05 19 00-0402 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,615.87	1,419.72
For Class 52 Rating, Deduct	-381.13	
For Class 54 Rating, Add	259.86	
For Class 55 Rating, Add	577.58	
40 05 19 00-0403 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,818.66	1,423.13
For Class 52 Rating, Deduct	-402.86	
For Class 54 Rating, Add	274.68	
For Class 55 Rating, Add	610.52	
40 05 19 00-0404 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,021.44	1,426.56
For Class 52 Rating, Deduct	-424.60	
For Class 54 Rating, Add	289.50	
For Class 55 Rating, Add	643.46	
40 05 19 00-0405 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,224.23	1,429.97
For Class 52 Rating, Deduct	-446.34	
For Class 54 Rating, Add	304.32	
For Class 55 Rating, Add	676.40	
40 05 19 00-0406 EA 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,427.01	1,433.40
For Class 52 Rating, Deduct	-468.07	
For Class 54 Rating, Add	319.14	
For Class 55 Rating, Add	709.34	
40 05 19 00-0407 EA 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,629.79	1,436.82
For Class 52 Rating, Deduct	-489.81	
For Class 54 Rating, Add	333.96	
For Class 55 Rating, Add	742.28	
40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,832.58	1,440.23
For Class 52 Rating, Deduct	-511.54	
For Class 54 Rating, Add	348.78	
For Class 55 Rating, Add	775.22	
40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,035.36	1,443.66
For Class 52 Rating, Deduct	-533.28	
For Class 54 Rating, Add	363.60	
For Class 55 Rating, Add	808.16	
40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,238.15	1,447.08
For Class 52 Rating, Deduct	-555.02	
For Class 54 Rating, Add	378.42	
For Class 55 Rating, Add	841.10	
40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,440.93	1,450.50
For Class 52 Rating, Deduct	-576.75	
For Class 54 Rating, Add	393.24	
For Class 55 Rating, Add	874.04	
40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,643.72	1,453.92
For Class 52 Rating, Deduct	-598.49	
For Class 54 Rating, Add	408.06	
For Class 55 Rating, Add	906.98	
40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,846.50	1,457.35
For Class 52 Rating, Deduct	-620.22	
For Class 54 Rating, Add	422.88	
For Class 55 Rating, Add	939.92	
40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,049.27	1,460.76
For Class 52 Rating, Deduct	-641.96	
For Class 54 Rating, Add	437.70	
For Class 55 Rating, Add	972.86	
40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,252.06	1,464.19
For Class 52 Rating, Deduct	-663.70	
For Class 54 Rating, Add	452.52	
For Class 55 Rating, Add	1,005.80	
40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,454.84	1,467.60
For Class 52 Rating, Deduct	-685.43	
For Class 54 Rating, Add	467.34	
For Class 55 Rating, Add	1,038.74	
40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,657.63	1,471.03
For Class 52 Rating, Deduct	-707.17	
For Class 54 Rating, Add	482.16	
For Class 55 Rating, Add	1,071.68	
40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,860.41	1,474.45
For Class 52 Rating, Deduct	-728.90	
For Class 54 Rating, Add	496.98	
For Class 55 Rating, Add	1,104.62	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	9,063.19 -750.64 511.80 1,137.56	1,477.87
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	9,265.98 -772.38 526.62 1,170.50	1,481.29
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	9,468.76 -794.11 541.44 1,203.44	1,484.72
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	9,671.55 -815.85 556.26 1,236.38	1,488.13
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	9,873.53 -837.50 571.02 1,269.19	1,491.55
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	10,077.12 -859.32 585.90 1,302.26	1,494.97
40 05 19 00-0425 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	10,279.90 -881.06 600.72 1,335.20	1,498.39
40 05 19 00-0426 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	10,482.68 -902.79 615.54 1,368.14	1,501.82
40 05 19 00-0427 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	10,685.46 -924.53 630.36 1,401.08	1,505.23
40 05 19 00-0428 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	10,888.24 -946.26 645.18 1,434.02	1,508.66
40 05 19 00-0429 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,091.03 -968.00 660.00 1,466.96	1,512.08
40 05 19 00-0430 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,293.81 -989.74 674.82 1,499.90	1,515.50
40 05 19 00-0431 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,496.59 -1,011.47 689.64 1,532.84	1,518.92
40 05 19 00-0432 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,699.38 -1,033.21 704.46 1,565.78	1,522.35
40 05 19 00-0433 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	11,902.16 -1,054.94 719.28 1,598.72	1,525.76
40 05 19 00-0434 EA 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	12,104.95 -1,076.68 734.10 1,631.66	1,529.19
40 05 19 00-0435 EA 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	12,307.73 -1,098.42 748.92 1,664.60	1,532.60
40 05 19 00-0436 EA 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	12,510.51 -1,120.15 763.74 1,697.54	1,536.03
40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438 EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	6,815.30 -452.06 308.22 685.07	1,785.76
40 05 19 00-0439 EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	7,089.28 -481.62 328.38 729.88	1,789.18

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0440 EA 36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,363.26	1,792.60
For Class 52 Rating, Deduct	-511.19	
For Class 54 Rating, Add	348.54	
For Class 55 Rating, Add	774.69	
40 05 19 00-0441 EA 36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,637.25	1,796.02
For Class 52 Rating, Deduct	-540.76	
For Class 54 Rating, Add	368.70	
For Class 55 Rating, Add	819.50	
40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,911.22	1,799.44
For Class 52 Rating, Deduct	-570.33	
For Class 54 Rating, Add	388.86	
For Class 55 Rating, Add	864.31	
40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,185.21	1,802.86
For Class 52 Rating, Deduct	-599.90	
For Class 54 Rating, Add	409.02	
For Class 55 Rating, Add	909.12	
40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,459.19	1,806.28
For Class 52 Rating, Deduct	-629.46	
For Class 54 Rating, Add	429.18	
For Class 55 Rating, Add	953.92	
40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,733.18	1,809.71
For Class 52 Rating, Deduct	-659.03	
For Class 54 Rating, Add	449.34	
For Class 55 Rating, Add	998.73	
40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,007.16	1,813.12
For Class 52 Rating, Deduct	-688.60	
For Class 54 Rating, Add	469.50	
For Class 55 Rating, Add	1,043.54	
40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,281.14	1,816.55
For Class 52 Rating, Deduct	-718.17	
For Class 54 Rating, Add	489.66	
For Class 55 Rating, Add	1,088.35	
40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,555.13	1,819.97
For Class 52 Rating, Deduct	-747.74	
For Class 54 Rating, Add	509.82	
For Class 55 Rating, Add	1,133.16	
40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,829.11	1,823.39
For Class 52 Rating, Deduct	-777.30	
For Class 54 Rating, Add	529.98	
For Class 55 Rating, Add	1,177.97	
40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,103.10	1,826.81
For Class 52 Rating, Deduct	-806.87	
For Class 54 Rating, Add	550.14	
For Class 55 Rating, Add	1,222.78	
40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,377.08	1,830.23
For Class 52 Rating, Deduct	-836.44	
For Class 54 Rating, Add	570.30	
For Class 55 Rating, Add	1,267.59	
40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,651.06	1,833.65
For Class 52 Rating, Deduct	-866.01	
For Class 54 Rating, Add	590.46	
For Class 55 Rating, Add	1,312.40	
40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,925.05	1,837.08
For Class 52 Rating, Deduct	-895.58	
For Class 54 Rating, Add	610.62	
For Class 55 Rating, Add	1,357.20	
40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,199.03	1,840.49
For Class 52 Rating, Deduct	-925.14	
For Class 54 Rating, Add	630.78	
For Class 55 Rating, Add	1,402.01	
40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,473.01	1,843.92
For Class 52 Rating, Deduct	-954.71	
For Class 54 Rating, Add	650.94	
For Class 55 Rating, Add	1,446.82	
40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,746.99	1,847.34
For Class 52 Rating, Deduct	-984.28	
For Class 54 Rating, Add	671.10	
For Class 55 Rating, Add	1,491.63	
40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,020.97	1,850.75
For Class 52 Rating, Deduct	-1,013.85	
For Class 54 Rating, Add	691.26	
For Class 55 Rating, Add	1,536.44	
40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,294.96	1,854.18
For Class 52 Rating, Deduct	-1,043.42	
For Class 54 Rating, Add	711.42	
For Class 55 Rating, Add	1,581.25	
40 05 19 00-0459 EA 36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,568.94	1,857.60
For Class 52 Rating, Deduct	-1,072.98	
For Class 54 Rating, Add	731.58	
For Class 55 Rating, Add	1,626.06	
40 05 19 00-0460 EA 36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,842.93	1,861.02
For Class 52 Rating, Deduct	-1,102.55	
For Class 54 Rating, Add	751.74	
For Class 55 Rating, Add	1,670.87	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0461	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,116.91	1,864.44
		For Class 52 Rating, Deduct	-1,132.12	
		For Class 54 Rating, Add	771.90	
		For Class 55 Rating, Add	1,715.68	
40 05 19 00-0462	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,390.90	1,867.86
		For Class 52 Rating, Deduct	-1,161.69	
		For Class 54 Rating, Add	792.06	
		For Class 55 Rating, Add	1,760.49	
40 05 19 00-0463	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,664.88	1,871.28
		For Class 52 Rating, Deduct	-1,191.26	
		For Class 54 Rating, Add	812.22	
		For Class 55 Rating, Add	1,805.29	
40 05 19 00-0464	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,938.86	1,874.71
		For Class 52 Rating, Deduct	-1,220.82	
		For Class 54 Rating, Add	832.38	
		For Class 55 Rating, Add	1,850.10	
40 05 19 00-0465	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,212.85	1,878.12
		For Class 52 Rating, Deduct	-1,250.39	
		For Class 54 Rating, Add	852.54	
		For Class 55 Rating, Add	1,894.91	
40 05 19 00-0466	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,486.83	1,881.55
		For Class 52 Rating, Deduct	-1,279.96	
		For Class 54 Rating, Add	872.70	
		For Class 55 Rating, Add	1,939.72	
40 05 19 00-0467	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,760.81	1,884.97
		For Class 52 Rating, Deduct	-1,309.53	
		For Class 54 Rating, Add	892.86	
		For Class 55 Rating, Add	1,984.53	
40 05 19 00-0468	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,034.79	1,888.39
		For Class 52 Rating, Deduct	-1,339.10	
		For Class 54 Rating, Add	913.02	
		For Class 55 Rating, Add	2,029.34	
40 05 19 00-0469	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,308.77	1,891.81
		For Class 52 Rating, Deduct	-1,368.66	
		For Class 54 Rating, Add	933.18	
		For Class 55 Rating, Add	2,074.15	
40 05 19 00-0470	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,582.76	1,895.23
		For Class 52 Rating, Deduct	-1,398.23	
		For Class 54 Rating, Add	953.34	
		For Class 55 Rating, Add	2,118.96	
40 05 19 00-0471	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,856.74	1,898.65
		For Class 52 Rating, Deduct	-1,427.80	
		For Class 54 Rating, Add	973.50	
		For Class 55 Rating, Add	2,163.77	
40 05 19 00-0472	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,130.73	1,902.07
		For Class 52 Rating, Deduct	-1,457.37	
		For Class 54 Rating, Add	993.66	
		For Class 55 Rating, Add	2,208.57	
40 05 19 00-0473	EA	36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,404.71	1,905.49
		For Class 52 Rating, Deduct	-1,486.94	
		For Class 54 Rating, Add	1,013.82	
		For Class 55 Rating, Add	2,253.38	
40 05 19 00-0474	EA	36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,678.69	1,908.91
		For Class 52 Rating, Deduct	-1,516.50	
		For Class 54 Rating, Add	1,033.98	
		For Class 55 Rating, Add	2,298.19	
40 05 19 00-0475	EA	36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,952.68	1,912.34
		For Class 52 Rating, Deduct	-1,546.07	
		For Class 54 Rating, Add	1,054.14	
		For Class 55 Rating, Add	2,343.00	
40 05 19 00-0476		42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0477	EA	42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,893.03	2,251.01
		For Class 52 Rating, Deduct	-603.06	
		For Class 54 Rating, Add	411.18	
		For Class 55 Rating, Add	913.92	
40 05 19 00-0478	EA	42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,299.81	2,254.44
		For Class 52 Rating, Deduct	-647.24	
		For Class 54 Rating, Add	441.30	
		For Class 55 Rating, Add	980.86	
40 05 19 00-0479	EA	42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,701.80	2,257.86
		For Class 52 Rating, Deduct	-690.89	
		For Class 54 Rating, Add	471.06	
		For Class 55 Rating, Add	1,047.01	
40 05 19 00-0480	EA	42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,107.78	2,261.27
		For Class 52 Rating, Deduct	-734.98	
		For Class 54 Rating, Add	501.12	
		For Class 55 Rating, Add	1,113.82	
40 05 19 00-0481	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,509.75	2,264.70
		For Class 52 Rating, Deduct	-778.62	
		For Class 54 Rating, Add	530.88	
		For Class 55 Rating, Add	1,179.97	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0482 EA 42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,916.54	2,268.11
For Class 52 Rating, Deduct	-822.80	
For Class 54 Rating, Add	561.00	
For Class 55 Rating, Add	1,246.92	
40 05 19 00-0483 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,317.72	2,271.54
For Class 52 Rating, Deduct	-866.36	
For Class 54 Rating, Add	590.70	
For Class 55 Rating, Add	1,312.93	
40 05 19 00-0484 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,724.51	2,274.96
For Class 52 Rating, Deduct	-910.54	
For Class 54 Rating, Add	620.82	
For Class 55 Rating, Add	1,379.88	
40 05 19 00-0485 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,126.49	2,278.38
For Class 52 Rating, Deduct	-954.18	
For Class 54 Rating, Add	650.58	
For Class 55 Rating, Add	1,446.02	
40 05 19 00-0486 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,532.48	2,281.80
For Class 52 Rating, Deduct	-998.27	
For Class 54 Rating, Add	680.64	
For Class 55 Rating, Add	1,512.84	
40 05 19 00-0487 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,934.46	2,285.23
For Class 52 Rating, Deduct	-1,041.92	
For Class 54 Rating, Add	710.40	
For Class 55 Rating, Add	1,578.98	
40 05 19 00-0488 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,340.44	2,288.64
For Class 52 Rating, Deduct	-1,086.01	
For Class 54 Rating, Add	740.46	
For Class 55 Rating, Add	1,645.80	
40 05 19 00-0489 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,742.43	2,292.07
For Class 52 Rating, Deduct	-1,129.66	
For Class 54 Rating, Add	770.22	
For Class 55 Rating, Add	1,711.94	
40 05 19 00-0490 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,145.21	2,295.48
For Class 52 Rating, Deduct	-1,173.39	
For Class 54 Rating, Add	800.04	
For Class 55 Rating, Add	1,778.22	
40 05 19 00-0491 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,550.40	2,298.91
For Class 52 Rating, Deduct	-1,217.39	
For Class 54 Rating, Add	830.04	
For Class 55 Rating, Add	1,844.90	
40 05 19 00-0492 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,952.38	2,302.33
For Class 52 Rating, Deduct	-1,261.04	
For Class 54 Rating, Add	859.80	
For Class 55 Rating, Add	1,911.05	
40 05 19 00-0493 EA 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,359.16	2,305.75
For Class 52 Rating, Deduct	-1,305.22	
For Class 54 Rating, Add	889.92	
For Class 55 Rating, Add	1,978.00	
40 05 19 00-0494 EA 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,761.14	2,309.17
For Class 52 Rating, Deduct	-1,348.86	
For Class 54 Rating, Add	919.68	
For Class 55 Rating, Add	2,044.14	
40 05 19 00-0495 EA 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,167.12	2,312.59
For Class 52 Rating, Deduct	-1,392.95	
For Class 54 Rating, Add	949.74	
For Class 55 Rating, Add	2,110.96	
40 05 19 00-0496 EA 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,569.11	2,316.01
For Class 52 Rating, Deduct	-1,436.60	
For Class 54 Rating, Add	979.50	
For Class 55 Rating, Add	2,177.10	
40 05 19 00-0497 EA 42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,975.89	2,319.43
For Class 52 Rating, Deduct	-1,480.78	
For Class 54 Rating, Add	1,009.62	
For Class 55 Rating, Add	2,244.05	
40 05 19 00-0498 EA 42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,377.87	2,322.86
For Class 52 Rating, Deduct	-1,524.42	
For Class 54 Rating, Add	1,039.38	
For Class 55 Rating, Add	2,310.20	
40 05 19 00-0499 EA 42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,783.86	2,326.27
For Class 52 Rating, Deduct	-1,568.51	
For Class 54 Rating, Add	1,069.44	
For Class 55 Rating, Add	2,377.01	
40 05 19 00-0500 EA 42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,185.84	2,329.70
For Class 52 Rating, Deduct	-1,612.16	
For Class 54 Rating, Add	1,099.20	
For Class 55 Rating, Add	2,443.16	
40 05 19 00-0501 EA 42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,592.63	2,333.11
For Class 52 Rating, Deduct	-1,656.34	
For Class 54 Rating, Add	1,129.32	
For Class 55 Rating, Add	2,510.10	
40 05 19 00-0502 EA 42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,994.61	2,336.54
For Class 52 Rating, Deduct	-1,699.98	
For Class 54 Rating, Add	1,159.08	
For Class 55 Rating, Add	2,576.25	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0503	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,399.80	2,339.96
		For Class 52 Rating, Deduct	-1,743.98	
		For Class 54 Rating, Add	1,189.08	
		For Class 55 Rating, Add	2,642.93	
40 05 19 00-0504	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,802.58	2,343.38
		For Class 52 Rating, Deduct	-1,787.72	
		For Class 54 Rating, Add	1,218.90	
		For Class 55 Rating, Add	2,709.21	
40 05 19 00-0505	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,124.56	2,346.80
		For Class 52 Rating, Deduct	-1,822.57	
		For Class 54 Rating, Add	1,242.66	
		For Class 55 Rating, Add	2,762.02	
40 05 19 00-0506	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,610.54	2,350.23
		For Class 52 Rating, Deduct	-1,875.46	
		For Class 54 Rating, Add	1,278.72	
		For Class 55 Rating, Add	2,842.17	
40 05 19 00-0507	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,012.52	2,353.64
		For Class 52 Rating, Deduct	-1,919.10	
		For Class 54 Rating, Add	1,308.48	
		For Class 55 Rating, Add	2,908.31	
40 05 19 00-0508	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,418.51	2,357.07
		For Class 52 Rating, Deduct	-1,963.19	
		For Class 54 Rating, Add	1,338.54	
		For Class 55 Rating, Add	2,975.13	
40 05 19 00-0509	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,820.49	2,360.49
		For Class 52 Rating, Deduct	-2,006.84	
		For Class 54 Rating, Add	1,368.30	
		For Class 55 Rating, Add	3,041.27	
40 05 19 00-0510	EA	42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,227.27	2,363.90
		For Class 52 Rating, Deduct	-2,051.02	
		For Class 54 Rating, Add	1,398.42	
		For Class 55 Rating, Add	3,108.22	
40 05 19 00-0511	EA	42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,628.46	2,367.33
		For Class 52 Rating, Deduct	-2,094.58	
		For Class 54 Rating, Add	1,428.12	
		For Class 55 Rating, Add	3,174.23	
40 05 19 00-0512	EA	42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,035.24	2,370.74
		For Class 52 Rating, Deduct	-2,138.75	
		For Class 54 Rating, Add	1,458.24	
		For Class 55 Rating, Add	3,241.18	
40 05 19 00-0513	EA	42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,437.23	2,374.17
		For Class 52 Rating, Deduct	-2,182.40	
		For Class 54 Rating, Add	1,488.00	
		For Class 55 Rating, Add	3,307.33	
40 05 19 00-0514	EA	42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,843.21	2,377.59
		For Class 52 Rating, Deduct	-2,226.49	
		For Class 54 Rating, Add	1,518.06	
		For Class 55 Rating, Add	3,374.14	
40 05 19 00-0515		48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0516	EA	48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,160.21	2,829.16
		For Class 52 Rating, Deduct	-756.10	
		For Class 54 Rating, Add	515.52	
		For Class 55 Rating, Add	1,145.83	
40 05 19 00-0517	EA	48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,750.19	2,832.58
		For Class 52 Rating, Deduct	-820.42	
		For Class 54 Rating, Add	559.38	
		For Class 55 Rating, Add	1,243.32	
40 05 19 00-0518	EA	48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,339.37	2,836.00
		For Class 52 Rating, Deduct	-884.66	
		For Class 54 Rating, Add	603.18	
		For Class 55 Rating, Add	1,340.67	
40 05 19 00-0519	EA	48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,933.36	2,839.42
		For Class 52 Rating, Deduct	-949.43	
		For Class 54 Rating, Add	647.34	
		For Class 55 Rating, Add	1,438.82	
40 05 19 00-0520	EA	48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,523.34	2,842.85
		For Class 52 Rating, Deduct	-1,013.76	
		For Class 54 Rating, Add	691.20	
		For Class 55 Rating, Add	1,536.31	
40 05 19 00-0521	EA	48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,113.33	2,846.26
		For Class 52 Rating, Deduct	-1,078.09	
		For Class 54 Rating, Add	735.06	
		For Class 55 Rating, Add	1,633.79	
40 05 19 00-0522	EA	48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,706.51	2,849.69
		For Class 52 Rating, Deduct	-1,142.77	
		For Class 54 Rating, Add	779.16	
		For Class 55 Rating, Add	1,731.81	
40 05 19 00-0523	EA	48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,297.29	2,853.11
		For Class 52 Rating, Deduct	-1,207.18	
		For Class 54 Rating, Add	823.08	
		For Class 55 Rating, Add	1,829.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,886.48	2,856.53
For Class 52 Rating, Deduct	-1,271.42	
For Class 54 Rating, Add	866.88	
For Class 55 Rating, Add	1,926.79	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,480.45	2,859.95
For Class 52 Rating, Deduct	-1,336.19	
For Class 54 Rating, Add	911.04	
For Class 55 Rating, Add	2,024.94	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,070.44	2,863.37
For Class 52 Rating, Deduct	-1,400.52	
For Class 54 Rating, Add	954.90	
For Class 55 Rating, Add	2,122.42	
40 05 19 00-0527 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,664.42	2,866.79
For Class 52 Rating, Deduct	-1,465.29	
For Class 54 Rating, Add	999.06	
For Class 55 Rating, Add	2,220.58	
40 05 19 00-0528 EA 48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,253.61	2,870.22
For Class 52 Rating, Deduct	-1,529.53	
For Class 54 Rating, Add	1,042.86	
For Class 55 Rating, Add	2,317.93	
40 05 19 00-0529 EA 48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,843.59	2,873.63
For Class 52 Rating, Deduct	-1,593.86	
For Class 54 Rating, Add	1,086.72	
For Class 55 Rating, Add	2,415.42	
40 05 19 00-0530 EA 48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,437.57	2,877.05
For Class 52 Rating, Deduct	-1,658.62	
For Class 54 Rating, Add	1,130.88	
For Class 55 Rating, Add	2,513.57	
40 05 19 00-0531 EA 48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,027.56	2,880.48
For Class 52 Rating, Deduct	-1,722.95	
For Class 54 Rating, Add	1,174.74	
For Class 55 Rating, Add	2,611.06	
40 05 19 00-0532 EA 48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,616.74	2,883.89
For Class 52 Rating, Deduct	-1,787.19	
For Class 54 Rating, Add	1,218.54	
For Class 55 Rating, Add	2,708.41	
40 05 19 00-0533 EA 48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,210.73	2,887.32
For Class 52 Rating, Deduct	-1,851.96	
For Class 54 Rating, Add	1,262.70	
For Class 55 Rating, Add	2,806.56	
40 05 19 00-0534 EA 48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,800.71	2,890.74
For Class 52 Rating, Deduct	-1,916.29	
For Class 54 Rating, Add	1,306.56	
For Class 55 Rating, Add	2,904.05	
40 05 19 00-0535 EA 48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,389.89	2,894.16
For Class 52 Rating, Deduct	-1,980.53	
For Class 54 Rating, Add	1,350.36	
For Class 55 Rating, Add	3,001.40	
40 05 19 00-0536 EA 48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,983.88	2,897.58
For Class 52 Rating, Deduct	-2,045.30	
For Class 54 Rating, Add	1,394.52	
For Class 55 Rating, Add	3,099.55	
40 05 19 00-0537 EA 48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,574.65	2,901.00
For Class 52 Rating, Deduct	-2,109.71	
For Class 54 Rating, Add	1,438.44	
For Class 55 Rating, Add	3,197.17	
40 05 19 00-0538 EA 48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,163.84	2,904.42
For Class 52 Rating, Deduct	-2,173.95	
For Class 54 Rating, Add	1,482.24	
For Class 55 Rating, Add	3,294.53	
40 05 19 00-0539 EA 48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,757.82	2,907.85
For Class 52 Rating, Deduct	-2,238.72	
For Class 54 Rating, Add	1,526.40	
For Class 55 Rating, Add	3,392.68	
40 05 19 00-0540 EA 48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,347.81	2,911.26
For Class 52 Rating, Deduct	-2,303.05	
For Class 54 Rating, Add	1,570.26	
For Class 55 Rating, Add	3,490.16	
40 05 19 00-0541 EA 48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,936.99	2,914.69
For Class 52 Rating, Deduct	-2,367.29	
For Class 54 Rating, Add	1,614.06	
For Class 55 Rating, Add	3,587.52	
40 05 19 00-0542 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,530.97	2,918.11
For Class 52 Rating, Deduct	-2,432.06	
For Class 54 Rating, Add	1,658.22	
For Class 55 Rating, Add	3,685.67	
40 05 19 00-0543 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,120.96	2,921.53
For Class 52 Rating, Deduct	-2,496.38	
For Class 54 Rating, Add	1,702.08	
For Class 55 Rating, Add	3,783.16	
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,638.94	2,924.95
For Class 52 Rating, Deduct	-2,552.79	
For Class 54 Rating, Add	1,740.54	
For Class 55 Rating, Add	3,868.64	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
40 05 19 00-0545	EA	48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,304.93	2,928.37
		For Class 52 Rating, Deduct	-2,625.48	
		For Class 54 Rating, Add	1,790.10	
		For Class 55 Rating, Add	3,978.80	
40 05 19 00-0546	EA	48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,894.11	2,931.79
		For Class 52 Rating, Deduct	-2,689.72	
		For Class 54 Rating, Add	1,833.90	
		For Class 55 Rating, Add	4,076.15	
40 05 19 00-0547	EA	48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,488.89	2,935.21
		For Class 52 Rating, Deduct	-2,754.58	
		For Class 54 Rating, Add	1,878.12	
		For Class 55 Rating, Add	4,174.43	
40 05 19 00-0548	EA	48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,078.08	2,938.63
		For Class 52 Rating, Deduct	-2,818.82	
		For Class 54 Rating, Add	1,921.92	
		For Class 55 Rating, Add	4,271.79	
40 05 19 00-0549	EA	48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,667.25	2,942.05
		For Class 52 Rating, Deduct	-2,883.06	
		For Class 54 Rating, Add	1,965.72	
		For Class 55 Rating, Add	4,369.14	
40 05 19 00-0550	EA	48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,262.04	2,945.48
		For Class 52 Rating, Deduct	-2,947.91	
		For Class 54 Rating, Add	2,009.94	
		For Class 55 Rating, Add	4,467.43	
40 05 19 00-0551	EA	48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,851.22	2,948.89
		For Class 52 Rating, Deduct	-3,012.15	
		For Class 54 Rating, Add	2,053.74	
		For Class 55 Rating, Add	4,564.78	
40 05 19 00-0552	EA	48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,441.20	2,952.32
		For Class 52 Rating, Deduct	-3,076.48	
		For Class 54 Rating, Add	2,097.60	
		For Class 55 Rating, Add	4,662.27	
40 05 19 00-0553	EA	48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,035.19	2,955.74
		For Class 52 Rating, Deduct	-3,141.25	
		For Class 54 Rating, Add	2,141.76	
		For Class 55 Rating, Add	4,760.42	
40 05 19 00-0554		Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0555		4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0556	EA	4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	373.19	156.55
		For Class 52 Rating, Deduct	-14.96	
		For Class 54 Rating, Add	10.20	
		For Class 55 Rating, Add	22.67	
40 05 19 00-0557	EA	4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	398.14	159.29
		For Class 52 Rating, Deduct	-17.25	
		For Class 54 Rating, Add	11.76	
		For Class 55 Rating, Add	26.14	
40 05 19 00-0558	EA	4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	423.08	162.02
		For Class 52 Rating, Deduct	-19.54	
		For Class 54 Rating, Add	13.32	
		For Class 55 Rating, Add	29.61	
40 05 19 00-0559	EA	4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	448.03	164.76
		For Class 52 Rating, Deduct	-21.82	
		For Class 54 Rating, Add	14.88	
		For Class 55 Rating, Add	33.07	
40 05 19 00-0560	EA	4" Flanged x Grooved (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	472.97	167.49
		For Class 52 Rating, Deduct	-24.11	
		For Class 54 Rating, Add	16.44	
		For Class 55 Rating, Add	36.54	
40 05 19 00-0561	EA	4" Flanged x Grooved (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	497.93	170.23
		For Class 52 Rating, Deduct	-26.40	
		For Class 54 Rating, Add	18.00	
		For Class 55 Rating, Add	40.01	
40 05 19 00-0562	EA	4" Flanged x Grooved (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	522.87	172.96
		For Class 52 Rating, Deduct	-28.69	
		For Class 54 Rating, Add	19.56	
		For Class 55 Rating, Add	43.48	
40 05 19 00-0563	EA	4" Flanged x Grooved (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	547.82	175.70
		For Class 52 Rating, Deduct	-30.98	
		For Class 54 Rating, Add	21.12	
		For Class 55 Rating, Add	46.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	572.76	178.45
			For Class 52 Rating, Deduct	-33.26	
			For Class 54 Rating, Add	22.68	
			For Class 55 Rating, Add	50.41	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	597.71	181.18
			For Class 52 Rating, Deduct	-35.55	
			For Class 54 Rating, Add	24.24	
			For Class 55 Rating, Add	53.88	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	622.65	183.92
			For Class 52 Rating, Deduct	-37.84	
			For Class 54 Rating, Add	25.80	
			For Class 55 Rating, Add	57.34	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	647.60	186.65
			For Class 52 Rating, Deduct	-40.13	
			For Class 54 Rating, Add	27.36	
			For Class 55 Rating, Add	60.81	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	672.54	189.39
			For Class 52 Rating, Deduct	-42.42	
			For Class 54 Rating, Add	28.92	
			For Class 55 Rating, Add	64.28	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	697.50	192.12
			For Class 52 Rating, Deduct	-44.70	
			For Class 54 Rating, Add	30.48	
			For Class 55 Rating, Add	67.75	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	722.45	194.86
			For Class 52 Rating, Deduct	-46.99	
			For Class 54 Rating, Add	32.04	
			For Class 55 Rating, Add	71.21	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	747.39	197.60
			For Class 52 Rating, Deduct	-49.28	
			For Class 54 Rating, Add	33.60	
			For Class 55 Rating, Add	74.68	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	772.34	200.33
			For Class 52 Rating, Deduct	-51.57	
			For Class 54 Rating, Add	35.16	
			For Class 55 Rating, Add	78.15	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	797.28	203.07
			For Class 52 Rating, Deduct	-53.86	
			For Class 54 Rating, Add	36.72	
			For Class 55 Rating, Add	81.62	
40 05 19 00-0574	EA		4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	822.23	205.81
			For Class 52 Rating, Deduct	-56.14	
			For Class 54 Rating, Add	38.28	
			For Class 55 Rating, Add	85.08	
40 05 19 00-0575	EA		4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	847.17	208.55
			For Class 52 Rating, Deduct	-58.43	
			For Class 54 Rating, Add	39.84	
			For Class 55 Rating, Add	88.55	
40 05 19 00-0576	EA		4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	872.12	211.28
			For Class 52 Rating, Deduct	-60.72	
			For Class 54 Rating, Add	41.40	
			For Class 55 Rating, Add	92.02	
40 05 19 00-0577	EA		4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	897.07	214.02
			For Class 52 Rating, Deduct	-63.01	
			For Class 54 Rating, Add	42.96	
			For Class 55 Rating, Add	95.49	
40 05 19 00-0578	EA		4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	922.02	216.76
			For Class 52 Rating, Deduct	-65.30	
			For Class 54 Rating, Add	44.52	
			For Class 55 Rating, Add	98.95	
40 05 19 00-0579	EA		4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	946.96	219.49
			For Class 52 Rating, Deduct	-67.58	
			For Class 54 Rating, Add	46.08	
			For Class 55 Rating, Add	102.42	
40 05 19 00-0580	EA		4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	971.91	222.23
			For Class 52 Rating, Deduct	-69.87	
			For Class 54 Rating, Add	47.64	
			For Class 55 Rating, Add	105.89	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0581	EA		4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	996.85	224.96
			For Class 52 Rating, Deduct	-72.16	
			For Class 54 Rating, Add	49.20	
			For Class 55 Rating, Add	109.36	
40 05 19 00-0582	EA		4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,021.80	227.70
			For Class 52 Rating, Deduct	-74.45	
			For Class 54 Rating, Add	50.76	
			For Class 55 Rating, Add	112.82	
40 05 19 00-0583	EA		4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,046.74	230.44
			For Class 52 Rating, Deduct	-76.74	
			For Class 54 Rating, Add	52.32	
			For Class 55 Rating, Add	116.29	
40 05 19 00-0584	EA		4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,071.70	233.18
			For Class 52 Rating, Deduct	-79.02	
			For Class 54 Rating, Add	53.88	
			For Class 55 Rating, Add	119.76	
40 05 19 00-0585	EA		4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,096.65	235.92
			For Class 52 Rating, Deduct	-81.31	
			For Class 54 Rating, Add	55.44	
			For Class 55 Rating, Add	123.22	
40 05 19 00-0586	EA		4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,121.59	238.65
			For Class 52 Rating, Deduct	-83.60	
			For Class 54 Rating, Add	57.00	
			For Class 55 Rating, Add	126.69	
40 05 19 00-0587	EA		4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,146.54	241.39
			For Class 52 Rating, Deduct	-85.89	
			For Class 54 Rating, Add	58.56	
			For Class 55 Rating, Add	130.16	
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,171.48	244.12
			For Class 52 Rating, Deduct	-88.18	
			For Class 54 Rating, Add	60.12	
			For Class 55 Rating, Add	133.63	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,196.43	246.86
			For Class 52 Rating, Deduct	-90.46	
			For Class 54 Rating, Add	61.68	
			For Class 55 Rating, Add	137.09	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,221.37	249.60
			For Class 52 Rating, Deduct	-92.75	
			For Class 54 Rating, Add	63.24	
			For Class 55 Rating, Add	140.56	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,246.32	252.33
			For Class 52 Rating, Deduct	-95.04	
			For Class 54 Rating, Add	64.80	
			For Class 55 Rating, Add	144.03	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,271.27	255.07
			For Class 52 Rating, Deduct	-97.33	
			For Class 54 Rating, Add	66.36	
			For Class 55 Rating, Add	147.50	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,296.22	257.81
			For Class 52 Rating, Deduct	-99.62	
			For Class 54 Rating, Add	67.92	
			For Class 55 Rating, Add	150.96	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,321.16	260.55
			For Class 52 Rating, Deduct	-101.90	
			For Class 54 Rating, Add	69.48	
			For Class 55 Rating, Add	154.43	
40 05 19 00-0595			6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	467.36	197.05
			For Class 52 Rating, Deduct	-18.57	
			For Class 54 Rating, Add	12.66	
			For Class 55 Rating, Add	28.14	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	497.11	199.79
			For Class 52 Rating, Deduct	-21.38	
			For Class 54 Rating, Add	14.58	
			For Class 55 Rating, Add	32.41	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	526.86	202.52
			For Class 52 Rating, Deduct	-24.20	
			For Class 54 Rating, Add	16.50	
			For Class 55 Rating, Add	36.67	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	556.60	205.26
			For Class 52 Rating, Deduct	-27.02	
			For Class 54 Rating, Add	18.42	
			For Class 55 Rating, Add	40.94	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	586.35	208.00
			For Class 52 Rating, Deduct	-29.83	
			For Class 54 Rating, Add	20.34	
			For Class 55 Rating, Add	45.21	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	616.09	210.73
			For Class 52 Rating, Deduct	-32.65	
			For Class 54 Rating, Add	22.26	
			For Class 55 Rating, Add	49.48	
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	645.84	213.47
			For Class 52 Rating, Deduct	-35.46	
			For Class 54 Rating, Add	24.18	
			For Class 55 Rating, Add	53.74	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	675.58	216.20
			For Class 52 Rating, Deduct	-38.28	
			For Class 54 Rating, Add	26.10	
			For Class 55 Rating, Add	58.01	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	705.33	218.94
			For Class 52 Rating, Deduct	-41.10	
			For Class 54 Rating, Add	28.02	
			For Class 55 Rating, Add	62.28	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	735.08	221.68
			For Class 52 Rating, Deduct	-43.91	
			For Class 54 Rating, Add	29.94	
			For Class 55 Rating, Add	66.55	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	764.83	224.42
			For Class 52 Rating, Deduct	-46.73	
			For Class 54 Rating, Add	31.86	
			For Class 55 Rating, Add	70.81	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	794.57	227.16
			For Class 52 Rating, Deduct	-49.54	
			For Class 54 Rating, Add	33.78	
			For Class 55 Rating, Add	75.08	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	824.32	229.89
			For Class 52 Rating, Deduct	-52.36	
			For Class 54 Rating, Add	35.70	
			For Class 55 Rating, Add	79.35	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	854.06	232.63
			For Class 52 Rating, Deduct	-55.18	
			For Class 54 Rating, Add	37.62	
			For Class 55 Rating, Add	83.62	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	883.81	235.36
			For Class 52 Rating, Deduct	-57.99	
			For Class 54 Rating, Add	39.54	
			For Class 55 Rating, Add	87.88	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	913.56	238.10
			For Class 52 Rating, Deduct	-60.81	
			For Class 54 Rating, Add	41.46	
			For Class 55 Rating, Add	92.15	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	943.30	240.83
			For Class 52 Rating, Deduct	-63.62	
			For Class 54 Rating, Add	43.38	
			For Class 55 Rating, Add	96.42	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	973.06	243.57
			For Class 52 Rating, Deduct	-66.44	
			For Class 54 Rating, Add	45.30	
			For Class 55 Rating, Add	100.69	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,002.80	246.32
			For Class 52 Rating, Deduct	-69.26	
			For Class 54 Rating, Add	47.22	
			For Class 55 Rating, Add	104.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0615	EA		6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,032.55	249.05
			For Class 52 Rating, Deduct	-72.07	
			For Class 54 Rating, Add	49.14	
			For Class 55 Rating, Add	109.22	
40 05 19 00-0616	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,062.29	251.79
			For Class 52 Rating, Deduct	-74.89	
			For Class 54 Rating, Add	51.06	
			For Class 55 Rating, Add	113.49	
40 05 19 00-0617	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,092.04	254.52
			For Class 52 Rating, Deduct	-77.70	
			For Class 54 Rating, Add	52.98	
			For Class 55 Rating, Add	117.76	
40 05 19 00-0618	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,121.78	257.26
			For Class 52 Rating, Deduct	-80.52	
			For Class 54 Rating, Add	54.90	
			For Class 55 Rating, Add	122.02	
40 05 19 00-0619	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,151.53	259.99
			For Class 52 Rating, Deduct	-83.34	
			For Class 54 Rating, Add	56.82	
			For Class 55 Rating, Add	126.29	
40 05 19 00-0620	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.28	262.73
			For Class 52 Rating, Deduct	-86.15	
			For Class 54 Rating, Add	58.74	
			For Class 55 Rating, Add	130.56	
40 05 19 00-0621	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,211.03	265.47
			For Class 52 Rating, Deduct	-88.97	
			For Class 54 Rating, Add	60.66	
			For Class 55 Rating, Add	134.83	
40 05 19 00-0622	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,240.77	268.20
			For Class 52 Rating, Deduct	-91.78	
			For Class 54 Rating, Add	62.58	
			For Class 55 Rating, Add	139.09	
40 05 19 00-0623	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,270.52	270.94
			For Class 52 Rating, Deduct	-94.60	
			For Class 54 Rating, Add	64.50	
			For Class 55 Rating, Add	143.36	
40 05 19 00-0624	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,300.27	273.68
			For Class 52 Rating, Deduct	-97.42	
			For Class 54 Rating, Add	66.42	
			For Class 55 Rating, Add	147.63	
40 05 19 00-0625	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,330.01	276.42
			For Class 52 Rating, Deduct	-100.23	
			For Class 54 Rating, Add	68.34	
			For Class 55 Rating, Add	151.90	
40 05 19 00-0626	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,359.76	279.15
			For Class 52 Rating, Deduct	-103.05	
			For Class 54 Rating, Add	70.26	
			For Class 55 Rating, Add	156.16	
40 05 19 00-0627	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,389.50	281.89
			For Class 52 Rating, Deduct	-105.86	
			For Class 54 Rating, Add	72.18	
			For Class 55 Rating, Add	160.43	
40 05 19 00-0628	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,419.26	284.63
			For Class 52 Rating, Deduct	-108.68	
			For Class 54 Rating, Add	74.10	
			For Class 55 Rating, Add	164.70	
40 05 19 00-0629	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,449.00	287.36
			For Class 52 Rating, Deduct	-111.50	
			For Class 54 Rating, Add	76.02	
			For Class 55 Rating, Add	168.97	
40 05 19 00-0630	EA		6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.75	290.10
			For Class 52 Rating, Deduct	-114.31	
			For Class 54 Rating, Add	77.94	
			For Class 55 Rating, Add	173.23	
40 05 19 00-0631	EA		6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,508.49	292.83
			For Class 52 Rating, Deduct	-117.13	
			For Class 54 Rating, Add	79.86	
			For Class 55 Rating, Add	177.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,538.24	295.57
			For Class 52 Rating, Deduct	-119.94	
			For Class 54 Rating, Add	81.78	
			For Class 55 Rating, Add	181.77	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,567.98	298.31
			For Class 52 Rating, Deduct	-122.76	
			For Class 54 Rating, Add	83.70	
			For Class 55 Rating, Add	186.04	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,597.73	301.05
			For Class 52 Rating, Deduct	-125.58	
			For Class 54 Rating, Add	85.62	
			For Class 55 Rating, Add	190.30	
40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	627.89	251.79
			For Class 52 Rating, Deduct	-27.10	
			For Class 54 Rating, Add	18.48	
			For Class 55 Rating, Add	41.07	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	667.24	254.52
			For Class 52 Rating, Deduct	-30.98	
			For Class 54 Rating, Add	21.12	
			For Class 55 Rating, Add	46.94	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	706.58	257.26
			For Class 52 Rating, Deduct	-34.85	
			For Class 54 Rating, Add	23.76	
			For Class 55 Rating, Add	52.81	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	745.93	259.99
			For Class 52 Rating, Deduct	-38.72	
			For Class 54 Rating, Add	26.40	
			For Class 55 Rating, Add	58.68	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	785.28	262.73
			For Class 52 Rating, Deduct	-42.59	
			For Class 54 Rating, Add	29.04	
			For Class 55 Rating, Add	64.55	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	824.63	265.47
			For Class 52 Rating, Deduct	-46.46	
			For Class 54 Rating, Add	31.68	
			For Class 55 Rating, Add	70.41	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	863.97	268.20
			For Class 52 Rating, Deduct	-50.34	
			For Class 54 Rating, Add	34.32	
			For Class 55 Rating, Add	76.28	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	903.32	270.94
			For Class 52 Rating, Deduct	-54.21	
			For Class 54 Rating, Add	36.96	
			For Class 55 Rating, Add	82.15	
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	942.67	273.68
			For Class 52 Rating, Deduct	-58.08	
			For Class 54 Rating, Add	39.60	
			For Class 55 Rating, Add	88.02	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	982.01	276.42
			For Class 52 Rating, Deduct	-61.95	
			For Class 54 Rating, Add	42.24	
			For Class 55 Rating, Add	93.89	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,021.36	279.15
			For Class 52 Rating, Deduct	-65.82	
			For Class 54 Rating, Add	44.88	
			For Class 55 Rating, Add	99.75	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,060.70	281.89
			For Class 52 Rating, Deduct	-69.70	
			For Class 54 Rating, Add	47.52	
			For Class 55 Rating, Add	105.62	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,100.06	284.63
			For Class 52 Rating, Deduct	-73.57	
			For Class 54 Rating, Add	50.16	
			For Class 55 Rating, Add	111.49	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,139.40	287.36
		For Class 52 Rating, Deduct	-77.44	
		For Class 54 Rating, Add	52.80	
		For Class 55 Rating, Add	117.36	
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,178.75	290.10
		For Class 52 Rating, Deduct	-81.31	
		For Class 54 Rating, Add	55.44	
		For Class 55 Rating, Add	123.22	
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,218.09	292.83
		For Class 52 Rating, Deduct	-85.18	
		For Class 54 Rating, Add	58.08	
		For Class 55 Rating, Add	129.09	
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,257.44	295.57
		For Class 52 Rating, Deduct	-89.06	
		For Class 54 Rating, Add	60.72	
		For Class 55 Rating, Add	134.96	
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,296.78	298.31
		For Class 52 Rating, Deduct	-92.93	
		For Class 54 Rating, Add	63.36	
		For Class 55 Rating, Add	140.83	
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,336.13	301.05
		For Class 52 Rating, Deduct	-96.80	
		For Class 54 Rating, Add	66.00	
		For Class 55 Rating, Add	146.70	
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,375.47	303.79
		For Class 52 Rating, Deduct	-100.67	
		For Class 54 Rating, Add	68.64	
		For Class 55 Rating, Add	152.56	
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,414.83	306.52
		For Class 52 Rating, Deduct	-104.54	
		For Class 54 Rating, Add	71.28	
		For Class 55 Rating, Add	158.43	
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,454.17	309.26
		For Class 52 Rating, Deduct	-108.42	
		For Class 54 Rating, Add	73.92	
		For Class 55 Rating, Add	164.30	
40 05 19 00-0658	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,493.52	311.99
		For Class 52 Rating, Deduct	-112.29	
		For Class 54 Rating, Add	76.56	
		For Class 55 Rating, Add	170.17	
40 05 19 00-0659	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,532.87	314.73
		For Class 52 Rating, Deduct	-116.16	
		For Class 54 Rating, Add	79.20	
		For Class 55 Rating, Add	176.04	
40 05 19 00-0660	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.21	317.47
		For Class 52 Rating, Deduct	-120.03	
		For Class 54 Rating, Add	81.84	
		For Class 55 Rating, Add	181.90	
40 05 19 00-0661	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,611.56	320.20
		For Class 52 Rating, Deduct	-123.90	
		For Class 54 Rating, Add	84.48	
		For Class 55 Rating, Add	187.77	
40 05 19 00-0662	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,650.90	322.95
		For Class 52 Rating, Deduct	-127.78	
		For Class 54 Rating, Add	87.12	
		For Class 55 Rating, Add	193.64	
40 05 19 00-0663	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,690.26	325.68
		For Class 52 Rating, Deduct	-131.65	
		For Class 54 Rating, Add	89.76	
		For Class 55 Rating, Add	199.51	
40 05 19 00-0664	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,729.60	328.42
		For Class 52 Rating, Deduct	-135.52	
		For Class 54 Rating, Add	92.40	
		For Class 55 Rating, Add	205.37	
40 05 19 00-0665	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,768.95	331.15
		For Class 52 Rating, Deduct	-139.39	
		For Class 54 Rating, Add	95.04	
		For Class 55 Rating, Add	211.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,808.29	333.89
			For Class 52 Rating, Deduct	-143.26	
			For Class 54 Rating, Add	97.68	
			For Class 55 Rating, Add	217.11	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,847.64	336.63
			For Class 52 Rating, Deduct	-147.14	
			For Class 54 Rating, Add	100.32	
			For Class 55 Rating, Add	222.98	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,886.98	339.36
			For Class 52 Rating, Deduct	-151.01	
			For Class 54 Rating, Add	102.96	
			For Class 55 Rating, Add	228.85	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,926.33	342.10
			For Class 52 Rating, Deduct	-154.88	
			For Class 54 Rating, Add	105.60	
			For Class 55 Rating, Add	234.71	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,965.67	344.83
			For Class 52 Rating, Deduct	-158.75	
			For Class 54 Rating, Add	108.24	
			For Class 55 Rating, Add	240.58	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,005.03	347.57
			For Class 52 Rating, Deduct	-162.62	
			For Class 54 Rating, Add	110.88	
			For Class 55 Rating, Add	246.45	
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,044.38	350.31
			For Class 52 Rating, Deduct	-166.50	
			For Class 54 Rating, Add	113.52	
			For Class 55 Rating, Add	252.32	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,083.72	353.05
			For Class 52 Rating, Deduct	-170.37	
			For Class 54 Rating, Add	116.16	
			For Class 55 Rating, Add	258.18	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,123.07	355.79
			For Class 52 Rating, Deduct	-174.24	
			For Class 54 Rating, Add	118.80	
			For Class 55 Rating, Add	264.05	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	779.63	306.52
			For Class 52 Rating, Deduct	-34.67	
			For Class 54 Rating, Add	23.64	
			For Class 55 Rating, Add	52.54	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	830.17	309.26
			For Class 52 Rating, Deduct	-39.78	
			For Class 54 Rating, Add	27.12	
			For Class 55 Rating, Add	60.28	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	880.72	311.99
			For Class 52 Rating, Deduct	-44.88	
			For Class 54 Rating, Add	30.60	
			For Class 55 Rating, Add	68.01	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	931.27	314.73
			For Class 52 Rating, Deduct	-49.98	
			For Class 54 Rating, Add	34.08	
			For Class 55 Rating, Add	75.75	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	981.81	317.47
			For Class 52 Rating, Deduct	-55.09	
			For Class 54 Rating, Add	37.56	
			For Class 55 Rating, Add	83.48	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,032.36	320.20
			For Class 52 Rating, Deduct	-60.19	
			For Class 54 Rating, Add	41.04	
			For Class 55 Rating, Add	91.22	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,082.90	322.95
			For Class 52 Rating, Deduct	-65.30	
			For Class 54 Rating, Add	44.52	
			For Class 55 Rating, Add	98.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,133.46	325.68
			For Class 52 Rating, Deduct	-70.40	
			For Class 54 Rating, Add	48.00	
			For Class 55 Rating, Add	106.69	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,184.00	328.42
			For Class 52 Rating, Deduct	-75.50	
			For Class 54 Rating, Add	51.48	
			For Class 55 Rating, Add	114.42	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,234.55	331.15
			For Class 52 Rating, Deduct	-80.61	
			For Class 54 Rating, Add	54.96	
			For Class 55 Rating, Add	122.16	
40 05 19 00-0686	EA		10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,285.09	333.89
			For Class 52 Rating, Deduct	-85.71	
			For Class 54 Rating, Add	58.44	
			For Class 55 Rating, Add	129.89	
40 05 19 00-0687	EA		10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,335.64	336.63
			For Class 52 Rating, Deduct	-90.82	
			For Class 54 Rating, Add	61.92	
			For Class 55 Rating, Add	137.63	
40 05 19 00-0688	EA		10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,386.18	339.36
			For Class 52 Rating, Deduct	-95.92	
			For Class 54 Rating, Add	65.40	
			For Class 55 Rating, Add	145.36	
40 05 19 00-0689	EA		10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,436.73	342.10
			For Class 52 Rating, Deduct	-101.02	
			For Class 54 Rating, Add	68.88	
			For Class 55 Rating, Add	153.10	
40 05 19 00-0690	EA		10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,487.27	344.83
			For Class 52 Rating, Deduct	-106.13	
			For Class 54 Rating, Add	72.36	
			For Class 55 Rating, Add	160.83	
40 05 19 00-0691	EA		10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,537.83	347.57
			For Class 52 Rating, Deduct	-111.23	
			For Class 54 Rating, Add	75.84	
			For Class 55 Rating, Add	168.57	
40 05 19 00-0692	EA		10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,588.38	350.31
			For Class 52 Rating, Deduct	-116.34	
			For Class 54 Rating, Add	79.32	
			For Class 55 Rating, Add	176.30	
40 05 19 00-0693	EA		10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,638.92	353.05
			For Class 52 Rating, Deduct	-121.44	
			For Class 54 Rating, Add	82.80	
			For Class 55 Rating, Add	184.04	
40 05 19 00-0694	EA		10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,689.47	355.79
			For Class 52 Rating, Deduct	-126.54	
			For Class 54 Rating, Add	86.28	
			For Class 55 Rating, Add	191.77	
40 05 19 00-0695	EA		10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.01	358.52
			For Class 52 Rating, Deduct	-131.65	
			For Class 54 Rating, Add	89.76	
			For Class 55 Rating, Add	199.51	
40 05 19 00-0696	EA		10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,790.56	361.26
			For Class 52 Rating, Deduct	-136.75	
			For Class 54 Rating, Add	93.24	
			For Class 55 Rating, Add	207.24	
40 05 19 00-0697	EA		10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,841.10	363.99
			For Class 52 Rating, Deduct	-141.86	
			For Class 54 Rating, Add	96.72	
			For Class 55 Rating, Add	214.98	
40 05 19 00-0698	EA		10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,891.65	366.73
			For Class 52 Rating, Deduct	-146.96	
			For Class 54 Rating, Add	100.20	
			For Class 55 Rating, Add	222.71	
40 05 19 00-0699	EA		10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,942.20	369.46
			For Class 52 Rating, Deduct	-152.06	
			For Class 54 Rating, Add	103.68	
			For Class 55 Rating, Add	230.45	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,992.75	372.20
			For Class 52 Rating, Deduct	-157.17	
			For Class 54 Rating, Add	107.16	
			For Class 55 Rating, Add	238.18	
40 05 19 00-0701	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,043.29	374.95
			For Class 52 Rating, Deduct	-162.27	
			For Class 54 Rating, Add	110.64	
			For Class 55 Rating, Add	245.92	
40 05 19 00-0702	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,093.84	377.68
			For Class 52 Rating, Deduct	-167.38	
			For Class 54 Rating, Add	114.12	
			For Class 55 Rating, Add	253.65	
40 05 19 00-0703	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,144.38	380.42
			For Class 52 Rating, Deduct	-172.48	
			For Class 54 Rating, Add	117.60	
			For Class 55 Rating, Add	261.39	
40 05 19 00-0704	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,194.93	383.15
			For Class 52 Rating, Deduct	-177.58	
			For Class 54 Rating, Add	121.08	
			For Class 55 Rating, Add	269.12	
40 05 19 00-0705	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,245.47	385.89
			For Class 52 Rating, Deduct	-182.69	
			For Class 54 Rating, Add	124.56	
			For Class 55 Rating, Add	276.86	
40 05 19 00-0706	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,296.03	388.62
			For Class 52 Rating, Deduct	-187.79	
			For Class 54 Rating, Add	128.04	
			For Class 55 Rating, Add	284.59	
40 05 19 00-0707	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,346.58	391.36
			For Class 52 Rating, Deduct	-192.90	
			For Class 54 Rating, Add	131.52	
			For Class 55 Rating, Add	292.33	
40 05 19 00-0708	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,397.12	394.10
			For Class 52 Rating, Deduct	-198.00	
			For Class 54 Rating, Add	135.00	
			For Class 55 Rating, Add	300.06	
40 05 19 00-0709	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,447.67	396.83
			For Class 52 Rating, Deduct	-203.10	
			For Class 54 Rating, Add	138.48	
			For Class 55 Rating, Add	307.79	
40 05 19 00-0710	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,498.21	399.57
			For Class 52 Rating, Deduct	-208.21	
			For Class 54 Rating, Add	141.96	
			For Class 55 Rating, Add	315.53	
40 05 19 00-0711	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,548.76	402.31
			For Class 52 Rating, Deduct	-213.31	
			For Class 54 Rating, Add	145.44	
			For Class 55 Rating, Add	323.26	
40 05 19 00-0712	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,599.30	405.05
			For Class 52 Rating, Deduct	-218.42	
			For Class 54 Rating, Add	148.92	
			For Class 55 Rating, Add	331.00	
40 05 19 00-0713	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,649.85	407.78
			For Class 52 Rating, Deduct	-223.52	
			For Class 54 Rating, Add	152.40	
			For Class 55 Rating, Add	338.73	
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,700.40	410.52
			For Class 52 Rating, Deduct	-228.62	
			For Class 54 Rating, Add	155.88	
			For Class 55 Rating, Add	346.47	
40 05 19 00-0715			12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			(40 05 19 00-0554)		
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	998.13	383.15
			For Class 52 Rating, Deduct	-45.94	
			For Class 54 Rating, Add	31.32	
			For Class 55 Rating, Add	69.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0717	EA	12"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,060.67 -52.36 35.70 79.35	385.89
40 05 19 00-0718	EA	12"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,123.23 -58.78 40.08 89.08	388.62
40 05 19 00-0719	EA	12"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,185.78 -65.21 44.46 98.82	391.36
40 05 19 00-0720	EA	12"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,248.32 -71.63 48.84 108.56	394.10
40 05 19 00-0721	EA	12"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,310.87 -78.06 53.22 118.29	396.83
40 05 19 00-0722	EA	12"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,373.41 -84.48 57.60 128.03	399.57
40 05 19 00-0723	EA	12"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,435.96 -90.90 61.98 137.76	402.31
40 05 19 00-0724	EA	12"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,498.50 -97.33 66.36 147.50	405.05
40 05 19 00-0725	EA	12"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,561.05 -103.75 70.74 157.23	407.78
40 05 19 00-0726	EA	12"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,623.60 -110.18 75.12 166.97	410.52
40 05 19 00-0727	EA	12"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,686.15 -116.60 79.50 176.70	413.26
40 05 19 00-0728	EA	12"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,748.69 -123.02 83.88 186.44	415.99
40 05 19 00-0729	EA	12"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,811.24 -129.45 88.26 196.17	418.73
40 05 19 00-0730	EA	12"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,873.78 -135.87 92.64 205.91	421.46
40 05 19 00-0731	EA	12"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,936.33 -142.30 97.02 215.64	424.20
40 05 19 00-0732	EA	12"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,998.88 -148.72 101.40 225.38	426.94
40 05 19 00-0733	EA	12"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	2,061.42 -155.14 105.78 235.11	429.68

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0734	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,123.98	432.42
			For Class 52 Rating, Deduct	-161.57	
			For Class 54 Rating, Add	110.16	
			For Class 55 Rating, Add	244.85	
40 05 19 00-0735	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,186.52	435.15
			For Class 52 Rating, Deduct	-167.99	
			For Class 54 Rating, Add	114.54	
			For Class 55 Rating, Add	254.58	
40 05 19 00-0736	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,249.07	437.89
			For Class 52 Rating, Deduct	-174.42	
			For Class 54 Rating, Add	118.92	
			For Class 55 Rating, Add	264.32	
40 05 19 00-0737	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,311.61	440.62
			For Class 52 Rating, Deduct	-180.84	
			For Class 54 Rating, Add	123.30	
			For Class 55 Rating, Add	274.05	
40 05 19 00-0738	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,374.16	443.36
			For Class 52 Rating, Deduct	-187.26	
			For Class 54 Rating, Add	127.68	
			For Class 55 Rating, Add	283.79	
40 05 19 00-0739	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,436.70	446.09
			For Class 52 Rating, Deduct	-193.69	
			For Class 54 Rating, Add	132.06	
			For Class 55 Rating, Add	293.53	
40 05 19 00-0740	EA		12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,499.25	448.83
			For Class 52 Rating, Deduct	-200.11	
			For Class 54 Rating, Add	136.44	
			For Class 55 Rating, Add	303.26	
40 05 19 00-0741	EA		12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,561.80	451.58
			For Class 52 Rating, Deduct	-206.54	
			For Class 54 Rating, Add	140.82	
			For Class 55 Rating, Add	313.00	
40 05 19 00-0742	EA		12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,624.35	454.31
			For Class 52 Rating, Deduct	-212.96	
			For Class 54 Rating, Add	145.20	
			For Class 55 Rating, Add	322.73	
40 05 19 00-0743	EA		12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,686.89	457.05
			For Class 52 Rating, Deduct	-219.38	
			For Class 54 Rating, Add	149.58	
			For Class 55 Rating, Add	332.47	
40 05 19 00-0744	EA		12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,749.44	459.78
			For Class 52 Rating, Deduct	-225.81	
			For Class 54 Rating, Add	153.96	
			For Class 55 Rating, Add	342.20	
40 05 19 00-0745	EA		12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,811.98	462.52
			For Class 52 Rating, Deduct	-232.23	
			For Class 54 Rating, Add	158.34	
			For Class 55 Rating, Add	351.94	
40 05 19 00-0746	EA		12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,874.53	465.25
			For Class 52 Rating, Deduct	-238.66	
			For Class 54 Rating, Add	162.72	
			For Class 55 Rating, Add	361.67	
40 05 19 00-0747	EA		12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,937.08	467.99
			For Class 52 Rating, Deduct	-245.08	
			For Class 54 Rating, Add	167.10	
			For Class 55 Rating, Add	371.41	
40 05 19 00-0748	EA		12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,999.62	470.73
			For Class 52 Rating, Deduct	-251.50	
			For Class 54 Rating, Add	171.48	
			For Class 55 Rating, Add	381.14	
40 05 19 00-0749	EA		12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,062.18	473.46
			For Class 52 Rating, Deduct	-257.93	
			For Class 54 Rating, Add	175.86	
			For Class 55 Rating, Add	390.88	
40 05 19 00-0750	EA		12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,124.72	476.20
			For Class 52 Rating, Deduct	-264.35	
			For Class 54 Rating, Add	180.24	
			For Class 55 Rating, Add	400.61	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 19 00-0751	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,187.27 -270.78 184.62 410.35	478.94
40 05 19 00-0752	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,249.81 -277.20 189.00 420.08	481.68
40 05 19 00-0753	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,312.36 -283.62 193.38 429.82	484.41
40 05 19 00-0754	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	3,374.90 -290.05 197.76 439.55	487.15
40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)				
40 05 19 00-0756	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,320.64 -68.64 46.80 104.02	459.78
40 05 19 00-0757	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,395.98 -76.47 52.14 115.89	462.52
40 05 19 00-0758	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,471.33 -84.30 57.48 127.76	465.25
40 05 19 00-0759	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,546.68 -92.14 62.82 139.63	467.99
40 05 19 00-0760	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,622.02 -99.97 68.16 151.50	470.73
40 05 19 00-0761	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,697.38 -107.80 73.50 163.37	473.46
40 05 19 00-0762	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,772.72 -115.63 78.84 175.24	476.20
40 05 19 00-0763	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,848.07 -123.46 84.18 187.10	478.94
40 05 19 00-0764	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,923.41 -131.30 89.52 198.97	481.68
40 05 19 00-0765	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	1,998.76 -139.13 94.86 210.84	484.41
40 05 19 00-0766	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	2,074.10 -146.96 100.20 222.71	487.15
40 05 19 00-0767	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add	2,149.45 -154.79 105.54 234.58	489.89

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0768	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,224.79	492.62
			For Class 52 Rating, Deduct	-162.62	
			For Class 54 Rating, Add	110.88	
			For Class 55 Rating, Add	246.45	
40 05 19 00-0769	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,300.15	495.36
			For Class 52 Rating, Deduct	-170.46	
			For Class 54 Rating, Add	116.22	
			For Class 55 Rating, Add	258.32	
40 05 19 00-0770	EA		14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,375.49	498.09
			For Class 52 Rating, Deduct	-178.29	
			For Class 54 Rating, Add	121.56	
			For Class 55 Rating, Add	270.19	
40 05 19 00-0771	EA		14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,450.84	500.83
			For Class 52 Rating, Deduct	-186.12	
			For Class 54 Rating, Add	126.90	
			For Class 55 Rating, Add	282.06	
40 05 19 00-0772	EA		14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,526.18	503.57
			For Class 52 Rating, Deduct	-193.95	
			For Class 54 Rating, Add	132.24	
			For Class 55 Rating, Add	293.93	
40 05 19 00-0773	EA		14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,601.53	506.31
			For Class 52 Rating, Deduct	-201.78	
			For Class 54 Rating, Add	137.58	
			For Class 55 Rating, Add	305.79	
40 05 19 00-0774	EA		14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,676.88	509.05
			For Class 52 Rating, Deduct	-209.62	
			For Class 54 Rating, Add	142.92	
			For Class 55 Rating, Add	317.66	
40 05 19 00-0775	EA		14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,752.22	511.78
			For Class 52 Rating, Deduct	-217.45	
			For Class 54 Rating, Add	148.26	
			For Class 55 Rating, Add	329.53	
40 05 19 00-0776	EA		14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,827.58	514.52
			For Class 52 Rating, Deduct	-225.28	
			For Class 54 Rating, Add	153.60	
			For Class 55 Rating, Add	341.40	
40 05 19 00-0777	EA		14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,902.92	517.25
			For Class 52 Rating, Deduct	-233.11	
			For Class 54 Rating, Add	158.94	
			For Class 55 Rating, Add	353.27	
40 05 19 00-0778	EA		14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,978.27	519.99
			For Class 52 Rating, Deduct	-240.94	
			For Class 54 Rating, Add	164.28	
			For Class 55 Rating, Add	365.14	
40 05 19 00-0779	EA		14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,053.61	522.73
			For Class 52 Rating, Deduct	-248.78	
			For Class 54 Rating, Add	169.62	
			For Class 55 Rating, Add	377.01	
40 05 19 00-0780	EA		14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,128.96	525.46
			For Class 52 Rating, Deduct	-256.61	
			For Class 54 Rating, Add	174.96	
			For Class 55 Rating, Add	388.88	
40 05 19 00-0781	EA		14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,204.30	528.20
			For Class 52 Rating, Deduct	-264.44	
			For Class 54 Rating, Add	180.30	
			For Class 55 Rating, Add	400.75	
40 05 19 00-0782	EA		14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,279.65	530.94
			For Class 52 Rating, Deduct	-272.27	
			For Class 54 Rating, Add	185.64	
			For Class 55 Rating, Add	412.62	
40 05 19 00-0783	EA		14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,354.99	533.68
			For Class 52 Rating, Deduct	-280.10	
			For Class 54 Rating, Add	190.98	
			For Class 55 Rating, Add	424.48	
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,430.35	536.41
			For Class 52 Rating, Deduct	-287.94	
			For Class 54 Rating, Add	196.32	
			For Class 55 Rating, Add	436.35	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0785	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,505.69	539.15
			For Class 52 Rating, Deduct	-295.77	
			For Class 54 Rating, Add	201.66	
			For Class 55 Rating, Add	448.22	
40 05 19 00-0786	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,581.04	541.89
			For Class 52 Rating, Deduct	-303.60	
			For Class 54 Rating, Add	207.00	
			For Class 55 Rating, Add	460.09	
40 05 19 00-0787	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,656.39	544.62
			For Class 52 Rating, Deduct	-311.43	
			For Class 54 Rating, Add	212.34	
			For Class 55 Rating, Add	471.96	
40 05 19 00-0788	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,731.73	547.36
			For Class 52 Rating, Deduct	-319.26	
			For Class 54 Rating, Add	217.68	
			For Class 55 Rating, Add	483.83	
40 05 19 00-0789	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,807.08	550.09
			For Class 52 Rating, Deduct	-327.10	
			For Class 54 Rating, Add	223.02	
			For Class 55 Rating, Add	495.70	
40 05 19 00-0790	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,882.42	552.83
			For Class 52 Rating, Deduct	-334.93	
			For Class 54 Rating, Add	228.36	
			For Class 55 Rating, Add	507.57	
40 05 19 00-0791	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,957.77	555.57
			For Class 52 Rating, Deduct	-342.76	
			For Class 54 Rating, Add	233.70	
			For Class 55 Rating, Add	519.44	
40 05 19 00-0792	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,033.12	558.31
			For Class 52 Rating, Deduct	-350.59	
			For Class 54 Rating, Add	239.04	
			For Class 55 Rating, Add	531.31	
40 05 19 00-0793	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,108.47	561.05
			For Class 52 Rating, Deduct	-358.42	
			For Class 54 Rating, Add	244.38	
			For Class 55 Rating, Add	543.18	
40 05 19 00-0794			16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0795	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,534.56	525.46
			For Class 52 Rating, Deduct	-81.22	
			For Class 54 Rating, Add	55.38	
			For Class 55 Rating, Add	123.09	
40 05 19 00-0796	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,621.90	528.20
			For Class 52 Rating, Deduct	-90.38	
			For Class 54 Rating, Add	61.62	
			For Class 55 Rating, Add	136.96	
40 05 19 00-0797	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,709.25	530.94
			For Class 52 Rating, Deduct	-99.53	
			For Class 54 Rating, Add	67.86	
			For Class 55 Rating, Add	150.83	
40 05 19 00-0798	EA		16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,796.59	533.68
			For Class 52 Rating, Deduct	-108.68	
			For Class 54 Rating, Add	74.10	
			For Class 55 Rating, Add	164.70	
40 05 19 00-0799	EA		16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,883.95	536.41
			For Class 52 Rating, Deduct	-117.83	
			For Class 54 Rating, Add	80.34	
			For Class 55 Rating, Add	178.57	
40 05 19 00-0800	EA		16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,971.29	539.15
			For Class 52 Rating, Deduct	-126.98	
			For Class 54 Rating, Add	86.58	
			For Class 55 Rating, Add	192.44	
40 05 19 00-0801	EA		16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,058.64	541.89
			For Class 52 Rating, Deduct	-136.14	
			For Class 54 Rating, Add	92.82	
			For Class 55 Rating, Add	206.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0802	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,145.99	544.62
			For Class 52 Rating, Deduct	-145.29	
			For Class 54 Rating, Add	99.06	
			For Class 55 Rating, Add	220.18	
40 05 19 00-0803	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,233.33	547.36
			For Class 52 Rating, Deduct	-154.44	
			For Class 54 Rating, Add	105.30	
			For Class 55 Rating, Add	234.05	
40 05 19 00-0804	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,312.68	550.09
			For Class 52 Rating, Deduct	-162.71	
			For Class 54 Rating, Add	110.94	
			For Class 55 Rating, Add	246.58	
40 05 19 00-0805	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,408.02	552.83
			For Class 52 Rating, Deduct	-172.74	
			For Class 54 Rating, Add	117.78	
			For Class 55 Rating, Add	261.79	
40 05 19 00-0806	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,495.37	555.57
			For Class 52 Rating, Deduct	-181.90	
			For Class 54 Rating, Add	124.02	
			For Class 55 Rating, Add	275.66	
40 05 19 00-0807	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,582.72	558.31
			For Class 52 Rating, Deduct	-191.05	
			For Class 54 Rating, Add	130.26	
			For Class 55 Rating, Add	289.52	
40 05 19 00-0808	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,670.07	561.05
			For Class 52 Rating, Deduct	-200.20	
			For Class 54 Rating, Add	136.50	
			For Class 55 Rating, Add	303.39	
40 05 19 00-0809	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,757.41	563.78
			For Class 52 Rating, Deduct	-209.35	
			For Class 54 Rating, Add	142.74	
			For Class 55 Rating, Add	317.26	
40 05 19 00-0810	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,844.76	566.52
			For Class 52 Rating, Deduct	-218.50	
			For Class 54 Rating, Add	148.98	
			For Class 55 Rating, Add	331.13	
40 05 19 00-0811	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,932.10	569.25
			For Class 52 Rating, Deduct	-227.66	
			For Class 54 Rating, Add	155.22	
			For Class 55 Rating, Add	345.00	
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,019.45	571.99
			For Class 52 Rating, Deduct	-236.81	
			For Class 54 Rating, Add	161.46	
			For Class 55 Rating, Add	358.87	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,106.79	574.72
			For Class 52 Rating, Deduct	-245.96	
			For Class 54 Rating, Add	167.70	
			For Class 55 Rating, Add	372.74	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,194.15	577.46
			For Class 52 Rating, Deduct	-255.11	
			For Class 54 Rating, Add	173.94	
			For Class 55 Rating, Add	386.61	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,281.49	580.20
			For Class 52 Rating, Deduct	-264.26	
			For Class 54 Rating, Add	180.18	
			For Class 55 Rating, Add	400.48	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,368.84	582.94
			For Class 52 Rating, Deduct	-273.42	
			For Class 54 Rating, Add	186.42	
			For Class 55 Rating, Add	414.35	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,456.19	585.68
			For Class 52 Rating, Deduct	-282.57	
			For Class 54 Rating, Add	192.66	
			For Class 55 Rating, Add	428.22	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,543.53	588.41
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 19 00-0819	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,630.88	591.15
		For Class 52 Rating, Deduct	-300.87	
		For Class 54 Rating, Add	205.14	
		For Class 55 Rating, Add	455.96	
40 05 19 00-0820	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,718.22	593.88
		For Class 52 Rating, Deduct	-310.02	
		For Class 54 Rating, Add	211.38	
		For Class 55 Rating, Add	469.83	
40 05 19 00-0821	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,805.57	596.62
		For Class 52 Rating, Deduct	-319.18	
		For Class 54 Rating, Add	217.62	
		For Class 55 Rating, Add	483.70	
40 05 19 00-0822	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,892.92	599.36
		For Class 52 Rating, Deduct	-328.33	
		For Class 54 Rating, Add	223.86	
		For Class 55 Rating, Add	497.57	
40 05 19 00-0823	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,980.27	602.09
		For Class 52 Rating, Deduct	-337.48	
		For Class 54 Rating, Add	230.10	
		For Class 55 Rating, Add	511.44	
40 05 19 00-0824	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,067.61	604.83
		For Class 52 Rating, Deduct	-346.63	
		For Class 54 Rating, Add	236.34	
		For Class 55 Rating, Add	525.31	
40 05 19 00-0825	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,154.96	607.57
		For Class 52 Rating, Deduct	-355.78	
		For Class 54 Rating, Add	242.58	
		For Class 55 Rating, Add	539.17	
40 05 19 00-0826	EA	16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,242.30	610.31
		For Class 52 Rating, Deduct	-364.94	
		For Class 54 Rating, Add	248.82	
		For Class 55 Rating, Add	553.04	
40 05 19 00-0827	EA	16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,329.65	613.04
		For Class 52 Rating, Deduct	-374.09	
		For Class 54 Rating, Add	255.06	
		For Class 55 Rating, Add	566.91	
40 05 19 00-0828	EA	16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,416.99	615.78
		For Class 52 Rating, Deduct	-383.24	
		For Class 54 Rating, Add	261.30	
		For Class 55 Rating, Add	580.78	
40 05 19 00-0829	EA	16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,504.34	618.52
		For Class 52 Rating, Deduct	-392.39	
		For Class 54 Rating, Add	267.54	
		For Class 55 Rating, Add	594.65	
40 05 19 00-0830	EA	16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,591.70	621.25
		For Class 52 Rating, Deduct	-401.54	
		For Class 54 Rating, Add	273.78	
		For Class 55 Rating, Add	608.52	
40 05 19 00-0831	EA	16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,679.04	623.99
		For Class 52 Rating, Deduct	-410.70	
		For Class 54 Rating, Add	280.02	
		For Class 55 Rating, Add	622.39	
40 05 19 00-0832	EA	16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,766.39	626.72
		For Class 52 Rating, Deduct	-419.85	
		For Class 54 Rating, Add	286.26	
		For Class 55 Rating, Add	636.26	
40 05 19 00-0833		18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-054)		
40 05 19 00-0834	EA	18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,773.34	592.24
		For Class 52 Rating, Deduct	-96.36	
		For Class 54 Rating, Add	65.70	
		For Class 55 Rating, Add	146.03	
40 05 19 00-0835	EA	18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,873.48	594.98
		For Class 52 Rating, Deduct	-106.92	
		For Class 54 Rating, Add	72.90	
		For Class 55 Rating, Add	162.03	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0836	EA		18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,973.63	597.72
			For Class 52 Rating, Deduct	-117.48	
			For Class 54 Rating, Add	80.10	
			For Class 55 Rating, Add	178.04	
40 05 19 00-0837	EA		18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,073.77	600.45
			For Class 52 Rating, Deduct	-128.04	
			For Class 54 Rating, Add	87.30	
			For Class 55 Rating, Add	194.04	
40 05 19 00-0838	EA		18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,173.93	603.20
			For Class 52 Rating, Deduct	-138.60	
			For Class 54 Rating, Add	94.50	
			For Class 55 Rating, Add	210.04	
40 05 19 00-0839	EA		18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,274.07	605.93
			For Class 52 Rating, Deduct	-149.16	
			For Class 54 Rating, Add	101.70	
			For Class 55 Rating, Add	226.05	
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,374.22	608.67
			For Class 52 Rating, Deduct	-159.72	
			For Class 54 Rating, Add	108.90	
			For Class 55 Rating, Add	242.05	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,474.36	611.41
			For Class 52 Rating, Deduct	-170.28	
			For Class 54 Rating, Add	116.10	
			For Class 55 Rating, Add	258.05	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,574.51	614.14
			For Class 52 Rating, Deduct	-180.84	
			For Class 54 Rating, Add	123.30	
			For Class 55 Rating, Add	274.05	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,674.65	616.88
			For Class 52 Rating, Deduct	-191.40	
			For Class 54 Rating, Add	130.50	
			For Class 55 Rating, Add	290.06	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,774.80	619.61
			For Class 52 Rating, Deduct	-201.96	
			For Class 54 Rating, Add	137.70	
			For Class 55 Rating, Add	306.06	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,874.95	622.35
			For Class 52 Rating, Deduct	-212.52	
			For Class 54 Rating, Add	144.90	
			For Class 55 Rating, Add	322.06	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,975.10	625.08
			For Class 52 Rating, Deduct	-223.08	
			For Class 54 Rating, Add	152.10	
			For Class 55 Rating, Add	338.07	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,075.25	627.83
			For Class 52 Rating, Deduct	-233.64	
			For Class 54 Rating, Add	159.30	
			For Class 55 Rating, Add	354.07	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,175.39	630.57
			For Class 52 Rating, Deduct	-244.20	
			For Class 54 Rating, Add	166.50	
			For Class 55 Rating, Add	370.07	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,275.54	633.30
			For Class 52 Rating, Deduct	-254.76	
			For Class 54 Rating, Add	173.70	
			For Class 55 Rating, Add	386.08	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,375.68	636.04
			For Class 52 Rating, Deduct	-265.32	
			For Class 54 Rating, Add	180.90	
			For Class 55 Rating, Add	402.08	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,475.83	638.77
			For Class 52 Rating, Deduct	-275.88	
			For Class 54 Rating, Add	188.10	
			For Class 55 Rating, Add	418.08	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,575.97	641.51
			For Class 52 Rating, Deduct	-286.44	
			For Class 54 Rating, Add	195.30	
			For Class 55 Rating, Add	434.09	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,676.13	644.24
		For Class 52 Rating, Deduct	-297.00	
		For Class 54 Rating, Add	202.50	
		For Class 55 Rating, Add	450.09	
40 05 19 00-0854	EA	18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,776.27	646.98
		For Class 52 Rating, Deduct	-307.56	
		For Class 54 Rating, Add	209.70	
		For Class 55 Rating, Add	466.09	
40 05 19 00-0855	EA	18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,876.42	649.72
		For Class 52 Rating, Deduct	-318.12	
		For Class 54 Rating, Add	216.90	
		For Class 55 Rating, Add	482.10	
40 05 19 00-0856	EA	18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,976.56	652.45
		For Class 52 Rating, Deduct	-328.68	
		For Class 54 Rating, Add	224.10	
		For Class 55 Rating, Add	498.10	
40 05 19 00-0857	EA	18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,076.71	655.20
		For Class 52 Rating, Deduct	-339.24	
		For Class 54 Rating, Add	231.30	
		For Class 55 Rating, Add	514.10	
40 05 19 00-0858	EA	18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,176.86	657.93
		For Class 52 Rating, Deduct	-349.80	
		For Class 54 Rating, Add	238.50	
		For Class 55 Rating, Add	530.11	
40 05 19 00-0859	EA	18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,277.00	660.67
		For Class 52 Rating, Deduct	-360.36	
		For Class 54 Rating, Add	245.70	
		For Class 55 Rating, Add	546.11	
40 05 19 00-0860	EA	18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,377.15	663.40
		For Class 52 Rating, Deduct	-370.92	
		For Class 54 Rating, Add	252.90	
		For Class 55 Rating, Add	562.11	
40 05 19 00-0861	EA	18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,477.30	666.14
		For Class 52 Rating, Deduct	-381.48	
		For Class 54 Rating, Add	260.10	
		For Class 55 Rating, Add	578.12	
40 05 19 00-0862	EA	18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,577.45	668.88
		For Class 52 Rating, Deduct	-392.04	
		For Class 54 Rating, Add	267.30	
		For Class 55 Rating, Add	594.12	
40 05 19 00-0863	EA	18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,677.59	671.61
		For Class 52 Rating, Deduct	-402.60	
		For Class 54 Rating, Add	274.50	
		For Class 55 Rating, Add	610.12	
40 05 19 00-0864	EA	18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,777.74	674.35
		For Class 52 Rating, Deduct	-413.16	
		For Class 54 Rating, Add	281.70	
		For Class 55 Rating, Add	626.13	
40 05 19 00-0865	EA	18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,877.88	677.08
		For Class 52 Rating, Deduct	-423.72	
		For Class 54 Rating, Add	288.90	
		For Class 55 Rating, Add	642.13	
40 05 19 00-0866	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,978.03	679.83
		For Class 52 Rating, Deduct	-434.28	
		For Class 54 Rating, Add	296.10	
		For Class 55 Rating, Add	658.13	
40 05 19 00-0867	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,078.17	682.56
		For Class 52 Rating, Deduct	-444.84	
		For Class 54 Rating, Add	303.30	
		For Class 55 Rating, Add	674.13	
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,178.32	685.30
		For Class 52 Rating, Deduct	-455.40	
		For Class 54 Rating, Add	310.50	
		For Class 55 Rating, Add	690.14	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,278.47	688.04
		For Class 52 Rating, Deduct	-465.96	
		For Class 54 Rating, Add	317.70	
		For Class 55 Rating, Add	706.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0870 EA 18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,378.62	690.77
For Class 52 Rating, Deduct	-476.52	
For Class 54 Rating, Add	324.90	
For Class 55 Rating, Add	722.14	
40 05 19 00-0871 EA 18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,478.76	693.51
For Class 52 Rating, Deduct	-487.08	
For Class 54 Rating, Add	332.10	
For Class 55 Rating, Add	738.15	
40 05 19 00-0872 20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0873 EA 20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,047.42	675.99
For Class 52 Rating, Deduct	-112.55	
For Class 54 Rating, Add	76.74	
For Class 55 Rating, Add	170.57	
40 05 19 00-0874 EA 20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,161.97	678.72
For Class 52 Rating, Deduct	-124.70	
For Class 54 Rating, Add	85.02	
For Class 55 Rating, Add	188.97	
40 05 19 00-0875 EA 20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,276.51	681.46
For Class 52 Rating, Deduct	-136.84	
For Class 54 Rating, Add	93.30	
For Class 55 Rating, Add	207.37	
40 05 19 00-0876 EA 20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,391.07	684.20
For Class 52 Rating, Deduct	-148.98	
For Class 54 Rating, Add	101.58	
For Class 55 Rating, Add	225.78	
40 05 19 00-0877 EA 20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,505.61	686.94
For Class 52 Rating, Deduct	-161.13	
For Class 54 Rating, Add	109.86	
For Class 55 Rating, Add	244.18	
40 05 19 00-0878 EA 20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,620.16	689.67
For Class 52 Rating, Deduct	-173.27	
For Class 54 Rating, Add	118.14	
For Class 55 Rating, Add	262.59	
40 05 19 00-0879 EA 20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,734.70	692.41
For Class 52 Rating, Deduct	-185.42	
For Class 54 Rating, Add	126.42	
For Class 55 Rating, Add	280.99	
40 05 19 00-0880 EA 20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,849.25	695.15
For Class 52 Rating, Deduct	-197.56	
For Class 54 Rating, Add	134.70	
For Class 55 Rating, Add	299.39	
40 05 19 00-0881 EA 20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,963.80	697.88
For Class 52 Rating, Deduct	-209.70	
For Class 54 Rating, Add	142.98	
For Class 55 Rating, Add	317.80	
40 05 19 00-0882 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,078.34	700.62
For Class 52 Rating, Deduct	-221.85	
For Class 54 Rating, Add	151.26	
For Class 55 Rating, Add	336.20	
40 05 19 00-0883 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,192.90	703.35
For Class 52 Rating, Deduct	-233.99	
For Class 54 Rating, Add	159.54	
For Class 55 Rating, Add	354.60	
40 05 19 00-0884 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,307.44	706.09
For Class 52 Rating, Deduct	-246.14	
For Class 54 Rating, Add	167.82	
For Class 55 Rating, Add	373.01	
40 05 19 00-0885 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,421.99	708.82
For Class 52 Rating, Deduct	-258.28	
For Class 54 Rating, Add	176.10	
For Class 55 Rating, Add	391.41	
40 05 19 00-0886 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,536.53	711.57
For Class 52 Rating, Deduct	-270.42	
For Class 54 Rating, Add	184.38	
For Class 55 Rating, Add	409.82	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0887	EA		20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,651.08	714.31
			For Class 52 Rating, Deduct	-282.57	
			For Class 54 Rating, Add	192.66	
			For Class 55 Rating, Add	428.22	
40 05 19 00-0888	EA		20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,765.62	717.04
			For Class 52 Rating, Deduct	-294.71	
			For Class 54 Rating, Add	200.94	
			For Class 55 Rating, Add	446.62	
40 05 19 00-0889	EA		20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,880.17	719.78
			For Class 52 Rating, Deduct	-306.86	
			For Class 54 Rating, Add	209.22	
			For Class 55 Rating, Add	465.03	
40 05 19 00-0890	EA		20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,994.71	722.51
			For Class 52 Rating, Deduct	-319.00	
			For Class 54 Rating, Add	217.50	
			For Class 55 Rating, Add	483.43	
40 05 19 00-0891	EA		20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,109.27	725.25
			For Class 52 Rating, Deduct	-331.14	
			For Class 54 Rating, Add	225.78	
			For Class 55 Rating, Add	501.83	
40 05 19 00-0892	EA		20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,223.81	727.99
			For Class 52 Rating, Deduct	-343.29	
			For Class 54 Rating, Add	234.06	
			For Class 55 Rating, Add	520.24	
40 05 19 00-0893	EA		20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,338.36	730.72
			For Class 52 Rating, Deduct	-355.43	
			For Class 54 Rating, Add	242.34	
			For Class 55 Rating, Add	538.64	
40 05 19 00-0894	EA		20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,452.90	733.46
			For Class 52 Rating, Deduct	-367.58	
			For Class 54 Rating, Add	250.62	
			For Class 55 Rating, Add	557.04	
40 05 19 00-0895	EA		20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,567.45	736.20
			For Class 52 Rating, Deduct	-379.72	
			For Class 54 Rating, Add	258.90	
			For Class 55 Rating, Add	575.45	
40 05 19 00-0896	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,682.00	738.94
			For Class 52 Rating, Deduct	-391.86	
			For Class 54 Rating, Add	267.18	
			For Class 55 Rating, Add	593.85	
40 05 19 00-0897	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,796.54	741.67
			For Class 52 Rating, Deduct	-404.01	
			For Class 54 Rating, Add	275.46	
			For Class 55 Rating, Add	612.26	
40 05 19 00-0898	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,911.09	744.41
			For Class 52 Rating, Deduct	-416.15	
			For Class 54 Rating, Add	283.74	
			For Class 55 Rating, Add	630.66	
40 05 19 00-0899	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,025.64	747.15
			For Class 52 Rating, Deduct	-428.30	
			For Class 54 Rating, Add	292.02	
			For Class 55 Rating, Add	649.06	
40 05 19 00-0900	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,140.19	749.88
			For Class 52 Rating, Deduct	-440.44	
			For Class 54 Rating, Add	300.30	
			For Class 55 Rating, Add	667.47	
40 05 19 00-0901	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,254.73	752.62
			For Class 52 Rating, Deduct	-452.58	
			For Class 54 Rating, Add	308.58	
			For Class 55 Rating, Add	685.87	
40 05 19 00-0902	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,369.28	755.35
			For Class 52 Rating, Deduct	-464.73	
			For Class 54 Rating, Add	316.86	
			For Class 55 Rating, Add	704.27	
40 05 19 00-0903	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,483.82	758.09
			For Class 52 Rating, Deduct	-476.87	
			For Class 54 Rating, Add	325.14	
			For Class 55 Rating, Add	722.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,598.37	760.82
			For Class 52 Rating, Deduct	-489.02	
			For Class 54 Rating, Add	333.42	
			For Class 55 Rating, Add	741.08	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,712.91	763.57
			For Class 52 Rating, Deduct	-501.16	
			For Class 54 Rating, Add	341.70	
			For Class 55 Rating, Add	759.49	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,827.47	766.31
			For Class 52 Rating, Deduct	-513.30	
			For Class 54 Rating, Add	349.98	
			For Class 55 Rating, Add	777.89	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,942.01	769.04
			For Class 52 Rating, Deduct	-525.45	
			For Class 54 Rating, Add	358.26	
			For Class 55 Rating, Add	796.29	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,056.56	771.78
			For Class 52 Rating, Deduct	-537.59	
			For Class 54 Rating, Add	366.54	
			For Class 55 Rating, Add	814.70	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,171.10	774.51
			For Class 52 Rating, Deduct	-549.74	
			For Class 54 Rating, Add	374.82	
			For Class 55 Rating, Add	833.10	
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,285.65	777.25
			For Class 52 Rating, Deduct	-561.88	
			For Class 54 Rating, Add	383.10	
			For Class 55 Rating, Add	851.50	
40 05 19 00-0911			24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,503.62	799.14
			For Class 52 Rating, Deduct	-142.21	
			For Class 54 Rating, Add	96.96	
			For Class 55 Rating, Add	215.51	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,644.57	801.88
			For Class 52 Rating, Deduct	-157.26	
			For Class 54 Rating, Add	107.22	
			For Class 55 Rating, Add	238.31	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,785.51	804.62
			For Class 52 Rating, Deduct	-172.30	
			For Class 54 Rating, Add	117.48	
			For Class 55 Rating, Add	261.12	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,926.46	807.35
			For Class 52 Rating, Deduct	-187.35	
			For Class 54 Rating, Add	127.74	
			For Class 55 Rating, Add	283.92	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,067.41	810.09
			For Class 52 Rating, Deduct	-202.40	
			For Class 54 Rating, Add	138.00	
			For Class 55 Rating, Add	306.73	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,208.36	812.83
			For Class 52 Rating, Deduct	-217.45	
			For Class 54 Rating, Add	148.26	
			For Class 55 Rating, Add	329.53	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,349.31	815.57
			For Class 52 Rating, Deduct	-232.50	
			For Class 54 Rating, Add	158.52	
			For Class 55 Rating, Add	352.34	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,490.25	818.30
			For Class 52 Rating, Deduct	-247.54	
			For Class 54 Rating, Add	168.78	
			For Class 55 Rating, Add	375.14	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,631.20	821.04
			For Class 52 Rating, Deduct	-262.59	
			For Class 54 Rating, Add	179.04	
			For Class 55 Rating, Add	397.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0921	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,772.14	823.78
			For Class 52 Rating, Deduct	-277.64	
			For Class 54 Rating, Add	189.30	
			For Class 55 Rating, Add	420.75	
40 05 19 00-0922	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,913.09	826.51
			For Class 52 Rating, Deduct	-292.69	
			For Class 54 Rating, Add	199.56	
			For Class 55 Rating, Add	443.56	
40 05 19 00-0923	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,054.04	829.25
			For Class 52 Rating, Deduct	-307.74	
			For Class 54 Rating, Add	209.82	
			For Class 55 Rating, Add	466.36	
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,194.99	831.98
			For Class 52 Rating, Deduct	-322.78	
			For Class 54 Rating, Add	220.08	
			For Class 55 Rating, Add	489.16	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,335.93	834.72
			For Class 52 Rating, Deduct	-337.83	
			For Class 54 Rating, Add	230.34	
			For Class 55 Rating, Add	511.97	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,476.88	837.45
			For Class 52 Rating, Deduct	-352.88	
			For Class 54 Rating, Add	240.60	
			For Class 55 Rating, Add	534.77	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,617.82	840.20
			For Class 52 Rating, Deduct	-367.93	
			For Class 54 Rating, Add	250.86	
			For Class 55 Rating, Add	557.58	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,758.77	842.94
			For Class 52 Rating, Deduct	-382.98	
			For Class 54 Rating, Add	261.12	
			For Class 55 Rating, Add	580.38	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,899.71	845.67
			For Class 52 Rating, Deduct	-398.02	
			For Class 54 Rating, Add	271.38	
			For Class 55 Rating, Add	603.19	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,040.66	848.41
			For Class 52 Rating, Deduct	-413.07	
			For Class 54 Rating, Add	281.64	
			For Class 55 Rating, Add	625.99	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,181.61	851.14
			For Class 52 Rating, Deduct	-428.12	
			For Class 54 Rating, Add	291.90	
			For Class 55 Rating, Add	648.80	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,322.56	853.88
			For Class 52 Rating, Deduct	-443.17	
			For Class 54 Rating, Add	302.16	
			For Class 55 Rating, Add	671.60	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,463.51	856.61
			For Class 52 Rating, Deduct	-458.22	
			For Class 54 Rating, Add	312.42	
			For Class 55 Rating, Add	694.41	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,604.45	859.35
			For Class 52 Rating, Deduct	-473.26	
			For Class 54 Rating, Add	322.68	
			For Class 55 Rating, Add	717.21	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,745.40	862.09
			For Class 52 Rating, Deduct	-488.31	
			For Class 54 Rating, Add	332.94	
			For Class 55 Rating, Add	740.01	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,886.34	864.83
			For Class 52 Rating, Deduct	-503.36	
			For Class 54 Rating, Add	343.20	
			For Class 55 Rating, Add	762.82	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,027.29	867.57
			For Class 52 Rating, Deduct	-518.41	
			For Class 54 Rating, Add	353.46	
			For Class 55 Rating, Add	785.62	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938	EA		24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,168.23	870.30
			For Class 52 Rating, Deduct	-533.46	
			For Class 54 Rating, Add	363.72	
			For Class 55 Rating, Add	808.43	
40 05 19 00-0939	EA		24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,309.19	873.04
			For Class 52 Rating, Deduct	-548.50	
			For Class 54 Rating, Add	373.98	
			For Class 55 Rating, Add	831.23	
40 05 19 00-0940	EA		24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,450.13	875.77
			For Class 52 Rating, Deduct	-563.55	
			For Class 54 Rating, Add	384.24	
			For Class 55 Rating, Add	854.04	
40 05 19 00-0941	EA		24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,661.57	925.04
			For Class 52 Rating, Deduct	-578.60	
			For Class 54 Rating, Add	394.50	
			For Class 55 Rating, Add	876.84	
40 05 19 00-0942	EA		24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,802.51	927.77
			For Class 52 Rating, Deduct	-593.65	
			For Class 54 Rating, Add	404.76	
			For Class 55 Rating, Add	899.65	
40 05 19 00-0943	EA		24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,943.46	930.51
			For Class 52 Rating, Deduct	-608.70	
			For Class 54 Rating, Add	415.02	
			For Class 55 Rating, Add	922.45	
40 05 19 00-0944	EA		24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,084.41	933.25
			For Class 52 Rating, Deduct	-623.74	
			For Class 54 Rating, Add	425.28	
			For Class 55 Rating, Add	945.26	
40 05 19 00-0945	EA		24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,225.36	935.98
			For Class 52 Rating, Deduct	-638.79	
			For Class 54 Rating, Add	435.54	
			For Class 55 Rating, Add	968.06	
40 05 19 00-0946	EA		24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,366.31	938.72
			For Class 52 Rating, Deduct	-653.84	
			For Class 54 Rating, Add	445.80	
			For Class 55 Rating, Add	990.86	
40 05 19 00-0947	EA		24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,507.25	941.45
			For Class 52 Rating, Deduct	-668.89	
			For Class 54 Rating, Add	456.06	
			For Class 55 Rating, Add	1,013.67	
40 05 19 00-0948	EA		24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,648.20	944.20
			For Class 52 Rating, Deduct	-683.94	
			For Class 54 Rating, Add	466.32	
			For Class 55 Rating, Add	1,036.47	
40 05 19 00-0949	EA		24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,789.14	946.93
			For Class 52 Rating, Deduct	-698.98	
			For Class 54 Rating, Add	476.58	
			For Class 55 Rating, Add	1,059.28	
40 05 19 00-0950			30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0951	EA		30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,772.43	1,127.56
			For Class 52 Rating, Deduct	-227.04	
			For Class 54 Rating, Add	154.80	
			For Class 55 Rating, Add	344.07	
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,974.17	1,130.30
			For Class 52 Rating, Deduct	-248.78	
			For Class 54 Rating, Add	169.62	
			For Class 55 Rating, Add	377.01	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,175.92	1,133.03
			For Class 52 Rating, Deduct	-270.51	
			For Class 54 Rating, Add	184.44	
			For Class 55 Rating, Add	409.95	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,377.66	1,135.77
			For Class 52 Rating, Deduct	-292.25	
			For Class 54 Rating, Add	199.26	
			For Class 55 Rating, Add	442.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0955	EA		30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,579.41	1,138.50
			For Class 52 Rating, Deduct	-313.98	
			For Class 54 Rating, Add	214.08	
			For Class 55 Rating, Add	475.83	
40 05 19 00-0956	EA		30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,781.15	1,141.24
			For Class 52 Rating, Deduct	-335.72	
			For Class 54 Rating, Add	228.90	
			For Class 55 Rating, Add	508.77	
40 05 19 00-0957	EA		30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,982.91	1,143.98
			For Class 52 Rating, Deduct	-357.46	
			For Class 54 Rating, Add	243.72	
			For Class 55 Rating, Add	541.71	
40 05 19 00-0958	EA		30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,184.65	1,146.71
			For Class 52 Rating, Deduct	-379.19	
			For Class 54 Rating, Add	258.54	
			For Class 55 Rating, Add	574.65	
40 05 19 00-0959	EA		30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,386.40	1,149.46
			For Class 52 Rating, Deduct	-400.93	
			For Class 54 Rating, Add	273.36	
			For Class 55 Rating, Add	607.59	
40 05 19 00-0960	EA		30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,588.14	1,152.19
			For Class 52 Rating, Deduct	-422.66	
			For Class 54 Rating, Add	288.18	
			For Class 55 Rating, Add	640.53	
40 05 19 00-0961	EA		30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,789.89	1,154.93
			For Class 52 Rating, Deduct	-444.40	
			For Class 54 Rating, Add	303.00	
			For Class 55 Rating, Add	673.47	
40 05 19 00-0962	EA		30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,991.63	1,157.67
			For Class 52 Rating, Deduct	-466.14	
			For Class 54 Rating, Add	317.82	
			For Class 55 Rating, Add	706.41	
40 05 19 00-0963	EA		30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,193.38	1,160.40
			For Class 52 Rating, Deduct	-487.87	
			For Class 54 Rating, Add	332.64	
			For Class 55 Rating, Add	739.35	
40 05 19 00-0964	EA		30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,395.13	1,163.14
			For Class 52 Rating, Deduct	-509.61	
			For Class 54 Rating, Add	347.46	
			For Class 55 Rating, Add	772.29	
40 05 19 00-0965	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,596.88	1,165.87
			For Class 52 Rating, Deduct	-531.34	
			For Class 54 Rating, Add	362.28	
			For Class 55 Rating, Add	805.23	
40 05 19 00-0966	EA		30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,798.63	1,168.61
			For Class 52 Rating, Deduct	-553.08	
			For Class 54 Rating, Add	377.10	
			For Class 55 Rating, Add	838.17	
40 05 19 00-0967	EA		30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,000.37	1,171.34
			For Class 52 Rating, Deduct	-574.82	
			For Class 54 Rating, Add	391.92	
			For Class 55 Rating, Add	871.11	
40 05 19 00-0968	EA		30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,202.12	1,174.09
			For Class 52 Rating, Deduct	-596.55	
			For Class 54 Rating, Add	406.74	
			For Class 55 Rating, Add	904.05	
40 05 19 00-0969	EA		30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,403.86	1,176.83
			For Class 52 Rating, Deduct	-618.29	
			For Class 54 Rating, Add	421.56	
			For Class 55 Rating, Add	936.99	
40 05 19 00-0970	EA		30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,605.61	1,179.56
			For Class 52 Rating, Deduct	-640.02	
			For Class 54 Rating, Add	436.38	
			For Class 55 Rating, Add	969.93	
40 05 19 00-0971	EA		30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,807.35	1,182.30
			For Class 52 Rating, Deduct	-661.76	
			For Class 54 Rating, Add	451.20	
			For Class 55 Rating, Add	1,002.87	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0972	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,009.10	1,185.03
			For Class 52 Rating, Deduct	-683.50	
			For Class 54 Rating, Add	466.02	
			For Class 55 Rating, Add	1,035.81	
40 05 19 00-0973	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,210.85	1,187.77
			For Class 52 Rating, Deduct	-705.23	
			For Class 54 Rating, Add	480.84	
			For Class 55 Rating, Add	1,068.75	
40 05 19 00-0974	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,412.60	1,190.50
			For Class 52 Rating, Deduct	-726.97	
			For Class 54 Rating, Add	495.66	
			For Class 55 Rating, Add	1,101.69	
40 05 19 00-0975	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,614.34	1,193.24
			For Class 52 Rating, Deduct	-748.70	
			For Class 54 Rating, Add	510.48	
			For Class 55 Rating, Add	1,134.63	
40 05 19 00-0976	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,816.09	1,195.98
			For Class 52 Rating, Deduct	-770.44	
			For Class 54 Rating, Add	525.30	
			For Class 55 Rating, Add	1,167.57	
40 05 19 00-0977	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,017.83	1,198.71
			For Class 52 Rating, Deduct	-792.18	
			For Class 54 Rating, Add	540.12	
			For Class 55 Rating, Add	1,200.51	
40 05 19 00-0978	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,219.58	1,201.46
			For Class 52 Rating, Deduct	-813.91	
			For Class 54 Rating, Add	554.94	
			For Class 55 Rating, Add	1,233.45	
40 05 19 00-0979	EA		30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,421.33	1,204.19
			For Class 52 Rating, Deduct	-835.65	
			For Class 54 Rating, Add	569.76	
			For Class 55 Rating, Add	1,266.39	
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,623.08	1,206.93
			For Class 52 Rating, Deduct	-857.38	
			For Class 54 Rating, Add	584.58	
			For Class 55 Rating, Add	1,299.33	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,824.83	1,209.66
			For Class 52 Rating, Deduct	-879.12	
			For Class 54 Rating, Add	599.40	
			For Class 55 Rating, Add	1,332.27	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,026.57	1,212.40
			For Class 52 Rating, Deduct	-900.86	
			For Class 54 Rating, Add	614.22	
			For Class 55 Rating, Add	1,365.21	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,228.32	1,215.14
			For Class 52 Rating, Deduct	-922.59	
			For Class 54 Rating, Add	629.04	
			For Class 55 Rating, Add	1,398.15	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,430.06	1,217.87
			For Class 52 Rating, Deduct	-944.33	
			For Class 54 Rating, Add	643.86	
			For Class 55 Rating, Add	1,431.09	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,631.81	1,220.61
			For Class 52 Rating, Deduct	-966.06	
			For Class 54 Rating, Add	658.68	
			For Class 55 Rating, Add	1,464.03	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,833.55	1,223.34
			For Class 52 Rating, Deduct	-987.80	
			For Class 54 Rating, Add	673.50	
			For Class 55 Rating, Add	1,496.97	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,035.30	1,226.09
			For Class 52 Rating, Deduct	-1,009.54	
			For Class 54 Rating, Add	688.32	
			For Class 55 Rating, Add	1,529.91	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,237.05	1,228.82
			For Class 52 Rating, Deduct	-1,031.27	
			For Class 54 Rating, Add	703.14	
			For Class 55 Rating, Add	1,562.85	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 19 00-0989		36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0990	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,074.15	1,428.60
		For Class 52 Rating, Deduct	-320.06	
		For Class 54 Rating, Add	218.22	
		For Class 55 Rating, Add	485.03	
40 05 19 00-0991	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,347.10	1,431.34
		For Class 52 Rating, Deduct	-349.62	
		For Class 54 Rating, Add	238.38	
		For Class 55 Rating, Add	529.84	
40 05 19 00-0992	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,620.05	1,434.08
		For Class 52 Rating, Deduct	-379.19	
		For Class 54 Rating, Add	258.54	
		For Class 55 Rating, Add	574.65	
40 05 19 00-0993	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,892.99	1,436.82
		For Class 52 Rating, Deduct	-408.76	
		For Class 54 Rating, Add	278.70	
		For Class 55 Rating, Add	619.46	
40 05 19 00-0994	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,165.95	1,439.56
		For Class 52 Rating, Deduct	-438.33	
		For Class 54 Rating, Add	298.86	
		For Class 55 Rating, Add	664.27	
40 05 19 00-0995	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,438.89	1,442.29
		For Class 52 Rating, Deduct	-467.90	
		For Class 54 Rating, Add	319.02	
		For Class 55 Rating, Add	709.08	
40 05 19 00-0996	EA	36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,711.84	1,445.03
		For Class 52 Rating, Deduct	-497.46	
		For Class 54 Rating, Add	339.18	
		For Class 55 Rating, Add	753.88	
40 05 19 00-0997	EA	36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,984.78	1,447.76
		For Class 52 Rating, Deduct	-527.03	
		For Class 54 Rating, Add	359.34	
		For Class 55 Rating, Add	798.69	
40 05 19 00-0998	EA	36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,257.73	1,450.50
		For Class 52 Rating, Deduct	-556.60	
		For Class 54 Rating, Add	379.50	
		For Class 55 Rating, Add	843.50	
40 05 19 00-0999	EA	36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,530.67	1,453.23
		For Class 52 Rating, Deduct	-586.17	
		For Class 54 Rating, Add	399.66	
		For Class 55 Rating, Add	888.31	
40 05 19 00-1000	EA	36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,803.62	1,455.97
		For Class 52 Rating, Deduct	-615.74	
		For Class 54 Rating, Add	419.82	
		For Class 55 Rating, Add	933.12	
40 05 19 00-1001	EA	36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,076.57	1,458.72
		For Class 52 Rating, Deduct	-645.30	
		For Class 54 Rating, Add	439.98	
		For Class 55 Rating, Add	977.93	
40 05 19 00-1002	EA	36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,349.52	1,461.45
		For Class 52 Rating, Deduct	-674.87	
		For Class 54 Rating, Add	460.14	
		For Class 55 Rating, Add	1,022.74	
40 05 19 00-1003	EA	36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,622.46	1,464.19
		For Class 52 Rating, Deduct	-704.44	
		For Class 54 Rating, Add	480.30	
		For Class 55 Rating, Add	1,067.55	
40 05 19 00-1004	EA	36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,895.41	1,466.92
		For Class 52 Rating, Deduct	-734.01	
		For Class 54 Rating, Add	500.46	
		For Class 55 Rating, Add	1,112.36	
40 05 19 00-1005	EA	36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,168.35	1,469.66
		For Class 52 Rating, Deduct	-763.58	
		For Class 54 Rating, Add	520.62	
		For Class 55 Rating, Add	1,157.16	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1006	EA		36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,441.30	1,472.39
			For Class 52 Rating, Deduct	-793.14	
			For Class 54 Rating, Add	540.78	
			For Class 55 Rating, Add	1,201.97	
40 05 19 00-1007	EA		36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,714.25	1,475.13
			For Class 52 Rating, Deduct	-822.71	
			For Class 54 Rating, Add	560.94	
			For Class 55 Rating, Add	1,246.78	
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,987.19	1,477.87
			For Class 52 Rating, Deduct	-852.28	
			For Class 54 Rating, Add	581.10	
			For Class 55 Rating, Add	1,291.59	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,260.15	1,480.60
			For Class 52 Rating, Deduct	-881.85	
			For Class 54 Rating, Add	601.26	
			For Class 55 Rating, Add	1,336.40	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,533.09	1,483.35
			For Class 52 Rating, Deduct	-911.42	
			For Class 54 Rating, Add	621.42	
			For Class 55 Rating, Add	1,381.21	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,806.04	1,486.08
			For Class 52 Rating, Deduct	-940.98	
			For Class 54 Rating, Add	641.58	
			For Class 55 Rating, Add	1,426.02	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,078.98	1,488.82
			For Class 52 Rating, Deduct	-970.55	
			For Class 54 Rating, Add	661.74	
			For Class 55 Rating, Add	1,470.83	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,351.93	1,491.55
			For Class 52 Rating, Deduct	-1,000.12	
			For Class 54 Rating, Add	681.90	
			For Class 55 Rating, Add	1,515.64	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,624.87	1,494.29
			For Class 52 Rating, Deduct	-1,029.69	
			For Class 54 Rating, Add	702.06	
			For Class 55 Rating, Add	1,560.45	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,897.82	1,497.03
			For Class 52 Rating, Deduct	-1,059.26	
			For Class 54 Rating, Add	722.22	
			For Class 55 Rating, Add	1,605.25	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,170.76	1,499.76
			For Class 52 Rating, Deduct	-1,088.82	
			For Class 54 Rating, Add	742.38	
			For Class 55 Rating, Add	1,650.06	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,443.72	1,502.50
			For Class 52 Rating, Deduct	-1,118.39	
			For Class 54 Rating, Add	762.54	
			For Class 55 Rating, Add	1,694.87	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,716.66	1,505.23
			For Class 52 Rating, Deduct	-1,147.96	
			For Class 54 Rating, Add	782.70	
			For Class 55 Rating, Add	1,739.68	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,989.61	1,507.97
			For Class 52 Rating, Deduct	-1,177.53	
			For Class 54 Rating, Add	802.86	
			For Class 55 Rating, Add	1,784.49	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,262.56	1,510.71
			For Class 52 Rating, Deduct	-1,207.10	
			For Class 54 Rating, Add	823.02	
			For Class 55 Rating, Add	1,829.30	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,535.50	1,513.45
			For Class 52 Rating, Deduct	-1,236.66	
			For Class 54 Rating, Add	843.18	
			For Class 55 Rating, Add	1,874.11	
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,808.45	1,516.19
			For Class 52 Rating, Deduct	-1,266.23	
			For Class 54 Rating, Add	863.34	
			For Class 55 Rating, Add	1,918.92	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
40 05 19 00-1023	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,081.39	1,518.92
		For Class 52 Rating, Deduct		-1,295.80	
		For Class 54 Rating, Add		883.50	
		For Class 55 Rating, Add		1,963.73	
40 05 19 00-1024	EA	36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,354.35	1,521.66
		For Class 52 Rating, Deduct		-1,325.37	
		For Class 54 Rating, Add		903.66	
		For Class 55 Rating, Add		2,008.53	
40 05 19 00-1025	EA	36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,627.29	1,524.39
		For Class 52 Rating, Deduct		-1,354.94	
		For Class 54 Rating, Add		923.82	
		For Class 55 Rating, Add		2,053.34	
40 05 19 00-1026	EA	36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,900.24	1,527.13
		For Class 52 Rating, Deduct		-1,384.50	
		For Class 54 Rating, Add		943.98	
		For Class 55 Rating, Add		2,098.15	
40 05 19 00-1027	EA	36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,173.18	1,529.86
		For Class 52 Rating, Deduct		-1,414.07	
		For Class 54 Rating, Add		964.14	
		For Class 55 Rating, Add		2,142.96	
40 05 19 00-1028		Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)			
40 05 19 00-1029		4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1030	EA	4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		318.80	133.84
		For Class 52 Rating, Deduct		-12.76	
		For Class 54 Rating, Add		8.70	
		For Class 55 Rating, Add		19.34	
40 05 19 00-1031	EA	4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		343.14	136.19
		For Class 52 Rating, Deduct		-15.05	
		For Class 54 Rating, Add		10.26	
		For Class 55 Rating, Add		22.80	
40 05 19 00-1032	EA	4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		367.49	138.53
		For Class 52 Rating, Deduct		-17.34	
		For Class 54 Rating, Add		11.82	
		For Class 55 Rating, Add		26.27	
40 05 19 00-1033	EA	4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		391.83	140.87
		For Class 52 Rating, Deduct		-19.62	
		For Class 54 Rating, Add		13.38	
		For Class 55 Rating, Add		29.74	
40 05 19 00-1034	EA	4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		416.18	143.21
		For Class 52 Rating, Deduct		-21.91	
		For Class 54 Rating, Add		14.94	
		For Class 55 Rating, Add		33.21	
40 05 19 00-1035	EA	4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		440.52	145.54
		For Class 52 Rating, Deduct		-24.20	
		For Class 54 Rating, Add		16.50	
		For Class 55 Rating, Add		36.67	
40 05 19 00-1036	EA	4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		464.87	147.89
		For Class 52 Rating, Deduct		-26.49	
		For Class 54 Rating, Add		18.06	
		For Class 55 Rating, Add		40.14	
40 05 19 00-1037	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		489.21	150.22
		For Class 52 Rating, Deduct		-28.78	
		For Class 54 Rating, Add		19.62	
		For Class 55 Rating, Add		43.61	
40 05 19 00-1038	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		513.56	152.56
		For Class 52 Rating, Deduct		-31.06	
		For Class 54 Rating, Add		21.18	
		For Class 55 Rating, Add		47.08	
40 05 19 00-1039	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		537.90	154.91
		For Class 52 Rating, Deduct		-33.35	
		For Class 54 Rating, Add		22.74	
		For Class 55 Rating, Add		50.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1040	EA		4" Flanged x Plain End (FxE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	562.24	157.24
			For Class 52 Rating, Deduct	-35.64	
			For Class 54 Rating, Add	24.30	
			For Class 55 Rating, Add	54.01	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	586.59	159.59
			For Class 52 Rating, Deduct	-37.93	
			For Class 54 Rating, Add	25.86	
			For Class 55 Rating, Add	57.48	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	610.93	161.93
			For Class 52 Rating, Deduct	-40.22	
			For Class 54 Rating, Add	27.42	
			For Class 55 Rating, Add	60.95	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	635.28	164.27
			For Class 52 Rating, Deduct	-42.50	
			For Class 54 Rating, Add	28.98	
			For Class 55 Rating, Add	64.41	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	659.62	166.61
			For Class 52 Rating, Deduct	-44.79	
			For Class 54 Rating, Add	30.54	
			For Class 55 Rating, Add	67.88	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	683.97	168.94
			For Class 52 Rating, Deduct	-47.08	
			For Class 54 Rating, Add	32.10	
			For Class 55 Rating, Add	71.35	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	708.31	171.28
			For Class 52 Rating, Deduct	-49.37	
			For Class 54 Rating, Add	33.66	
			For Class 55 Rating, Add	74.81	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	732.66	173.62
			For Class 52 Rating, Deduct	-51.66	
			For Class 54 Rating, Add	35.22	
			For Class 55 Rating, Add	78.28	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	757.01	175.96
			For Class 52 Rating, Deduct	-53.94	
			For Class 54 Rating, Add	36.78	
			For Class 55 Rating, Add	81.75	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	781.35	178.31
			For Class 52 Rating, Deduct	-56.23	
			For Class 54 Rating, Add	38.34	
			For Class 55 Rating, Add	85.22	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	805.70	180.65
			For Class 52 Rating, Deduct	-58.52	
			For Class 54 Rating, Add	39.90	
			For Class 55 Rating, Add	88.68	
40 05 19 00-1051	EA		4" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	830.04	182.98
			For Class 52 Rating, Deduct	-60.81	
			For Class 54 Rating, Add	41.46	
			For Class 55 Rating, Add	92.15	
40 05 19 00-1052	EA		4" Flanged x Plain End (FxE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	854.39	185.33
			For Class 52 Rating, Deduct	-63.10	
			For Class 54 Rating, Add	43.02	
			For Class 55 Rating, Add	95.62	
40 05 19 00-1053	EA		4" Flanged x Plain End (FxE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	878.73	187.67
			For Class 52 Rating, Deduct	-65.38	
			For Class 54 Rating, Add	44.58	
			For Class 55 Rating, Add	99.09	
40 05 19 00-1054	EA		4" Flanged x Plain End (FxE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	903.08	190.00
			For Class 52 Rating, Deduct	-67.67	
			For Class 54 Rating, Add	46.14	
			For Class 55 Rating, Add	102.55	
40 05 19 00-1055	EA		4" Flanged x Plain End (FxE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	927.42	192.34
			For Class 52 Rating, Deduct	-69.96	
			For Class 54 Rating, Add	47.70	
			For Class 55 Rating, Add	106.02	
40 05 19 00-1056	EA		4" Flanged x Plain End (FxE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	951.77	194.68
			For Class 52 Rating, Deduct	-72.25	
			For Class 54 Rating, Add	49.26	
			For Class 55 Rating, Add	109.49	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1057	EA		4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	976.11	197.03
			For Class 52 Rating, Deduct	-74.54	
			For Class 54 Rating, Add	50.82	
			For Class 55 Rating, Add	112.96	
40 05 19 00-1058	EA		4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,000.46	199.36
			For Class 52 Rating, Deduct	-76.82	
			For Class 54 Rating, Add	52.38	
			For Class 55 Rating, Add	116.42	
40 05 19 00-1059	EA		4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,024.81	201.70
			For Class 52 Rating, Deduct	-79.11	
			For Class 54 Rating, Add	53.94	
			For Class 55 Rating, Add	119.89	
40 05 19 00-1060	EA		4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,049.15	204.05
			For Class 52 Rating, Deduct	-81.40	
			For Class 54 Rating, Add	55.50	
			For Class 55 Rating, Add	123.36	
40 05 19 00-1061	EA		4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,073.50	206.39
			For Class 52 Rating, Deduct	-83.69	
			For Class 54 Rating, Add	57.06	
			For Class 55 Rating, Add	126.83	
40 05 19 00-1062	EA		4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,097.84	208.73
			For Class 52 Rating, Deduct	-85.98	
			For Class 54 Rating, Add	58.62	
			For Class 55 Rating, Add	130.29	
40 05 19 00-1063	EA		4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,122.19	211.07
			For Class 52 Rating, Deduct	-88.26	
			For Class 54 Rating, Add	60.18	
			For Class 55 Rating, Add	133.76	
40 05 19 00-1064	EA		4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,146.53	213.40
			For Class 52 Rating, Deduct	-90.55	
			For Class 54 Rating, Add	61.74	
			For Class 55 Rating, Add	137.23	
40 05 19 00-1065	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,170.88	215.74
			For Class 52 Rating, Deduct	-92.84	
			For Class 54 Rating, Add	63.30	
			For Class 55 Rating, Add	140.69	
40 05 19 00-1066	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,195.22	218.08
			For Class 52 Rating, Deduct	-95.13	
			For Class 54 Rating, Add	64.86	
			For Class 55 Rating, Add	144.16	
40 05 19 00-1067	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,219.57	220.42
			For Class 52 Rating, Deduct	-97.42	
			For Class 54 Rating, Add	66.42	
			For Class 55 Rating, Add	147.63	
40 05 19 00-1068	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,243.91	222.77
			For Class 52 Rating, Deduct	-99.70	
			For Class 54 Rating, Add	67.98	
			For Class 55 Rating, Add	151.10	
40 05 19 00-1069			6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1070	EA		6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	400.06	168.47
			For Class 52 Rating, Deduct	-15.93	
			For Class 54 Rating, Add	10.86	
			For Class 55 Rating, Add	24.14	
40 05 19 00-1071	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	429.21	170.82
			For Class 52 Rating, Deduct	-18.74	
			For Class 54 Rating, Add	12.78	
			For Class 55 Rating, Add	28.41	
40 05 19 00-1072	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	458.35	173.15
			For Class 52 Rating, Deduct	-21.56	
			For Class 54 Rating, Add	14.70	
			For Class 55 Rating, Add	32.67	
40 05 19 00-1073	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	487.50	175.50
			For Class 52 Rating, Deduct	-24.38	
			For Class 54 Rating, Add	16.62	
			For Class 55 Rating, Add	36.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	516.65	177.84
			For Class 52 Rating, Deduct	-27.19	
			For Class 54 Rating, Add	18.54	
			For Class 55 Rating, Add	41.21	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	545.79	180.17
			For Class 52 Rating, Deduct	-30.01	
			For Class 54 Rating, Add	20.46	
			For Class 55 Rating, Add	45.48	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	574.94	182.52
			For Class 52 Rating, Deduct	-32.82	
			For Class 54 Rating, Add	22.38	
			For Class 55 Rating, Add	49.74	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	604.08	184.86
			For Class 52 Rating, Deduct	-35.64	
			For Class 54 Rating, Add	24.30	
			For Class 55 Rating, Add	54.01	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	633.23	187.20
			For Class 52 Rating, Deduct	-38.46	
			For Class 54 Rating, Add	26.22	
			For Class 55 Rating, Add	58.28	
40 05 19 00-1079	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	662.37	189.54
			For Class 52 Rating, Deduct	-41.27	
			For Class 54 Rating, Add	28.14	
			For Class 55 Rating, Add	62.55	
40 05 19 00-1080	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	691.52	191.87
			For Class 52 Rating, Deduct	-44.09	
			For Class 54 Rating, Add	30.06	
			For Class 55 Rating, Add	66.81	
40 05 19 00-1081	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	720.66	194.22
			For Class 52 Rating, Deduct	-46.90	
			For Class 54 Rating, Add	31.98	
			For Class 55 Rating, Add	71.08	
40 05 19 00-1082	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	749.81	196.55
			For Class 52 Rating, Deduct	-49.72	
			For Class 54 Rating, Add	33.90	
			For Class 55 Rating, Add	75.35	
40 05 19 00-1083	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	778.95	198.89
			For Class 52 Rating, Deduct	-52.54	
			For Class 54 Rating, Add	35.82	
			For Class 55 Rating, Add	79.62	
40 05 19 00-1084	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	808.10	201.24
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-1085	EA		6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	837.25	203.58
			For Class 52 Rating, Deduct	-58.17	
			For Class 54 Rating, Add	39.66	
			For Class 55 Rating, Add	88.15	
40 05 19 00-1086	EA		6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	866.39	205.92
			For Class 52 Rating, Deduct	-60.98	
			For Class 54 Rating, Add	41.58	
			For Class 55 Rating, Add	92.42	
40 05 19 00-1087	EA		6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	895.54	208.26
			For Class 52 Rating, Deduct	-63.80	
			For Class 54 Rating, Add	43.50	
			For Class 55 Rating, Add	96.69	
40 05 19 00-1088	EA		6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	924.68	210.60
			For Class 52 Rating, Deduct	-66.62	
			For Class 54 Rating, Add	45.42	
			For Class 55 Rating, Add	100.95	
40 05 19 00-1089	EA		6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	953.83	212.94
			For Class 52 Rating, Deduct	-69.43	
			For Class 54 Rating, Add	47.34	
			For Class 55 Rating, Add	105.22	
40 05 19 00-1090	EA		6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	982.97	215.27
			For Class 52 Rating, Deduct	-72.25	
			For Class 54 Rating, Add	49.26	
			For Class 55 Rating, Add	109.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1091	EA		6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,012.12	217.61
			For Class 52 Rating, Deduct	-75.06	
			For Class 54 Rating, Add	51.18	
			For Class 55 Rating, Add	113.76	
40 05 19 00-1092	EA		6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,041.26	219.96
			For Class 52 Rating, Deduct	-77.88	
			For Class 54 Rating, Add	53.10	
			For Class 55 Rating, Add	118.02	
40 05 19 00-1093	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,070.41	222.29
			For Class 52 Rating, Deduct	-80.70	
			For Class 54 Rating, Add	55.02	
			For Class 55 Rating, Add	122.29	
40 05 19 00-1094	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,099.55	224.64
			For Class 52 Rating, Deduct	-83.51	
			For Class 54 Rating, Add	56.94	
			For Class 55 Rating, Add	126.56	
40 05 19 00-1095	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,128.70	226.98
			For Class 52 Rating, Deduct	-86.33	
			For Class 54 Rating, Add	58.86	
			For Class 55 Rating, Add	130.83	
40 05 19 00-1096	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,157.85	229.32
			For Class 52 Rating, Deduct	-89.14	
			For Class 54 Rating, Add	60.78	
			For Class 55 Rating, Add	135.09	
40 05 19 00-1097	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,186.99	231.66
			For Class 52 Rating, Deduct	-91.96	
			For Class 54 Rating, Add	62.70	
			For Class 55 Rating, Add	139.36	
40 05 19 00-1098	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,216.14	234.00
			For Class 52 Rating, Deduct	-94.78	
			For Class 54 Rating, Add	64.62	
			For Class 55 Rating, Add	143.63	
40 05 19 00-1099	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,245.28	236.33
			For Class 52 Rating, Deduct	-97.59	
			For Class 54 Rating, Add	66.54	
			For Class 55 Rating, Add	147.90	
40 05 19 00-1100	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,274.43	238.67
			For Class 52 Rating, Deduct	-100.41	
			For Class 54 Rating, Add	68.46	
			For Class 55 Rating, Add	152.16	
40 05 19 00-1101	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,303.57	241.01
			For Class 52 Rating, Deduct	-103.22	
			For Class 54 Rating, Add	70.38	
			For Class 55 Rating, Add	156.43	
40 05 19 00-1102	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,332.72	243.36
			For Class 52 Rating, Deduct	-106.04	
			For Class 54 Rating, Add	72.30	
			For Class 55 Rating, Add	160.70	
40 05 19 00-1103	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,361.86	245.70
			For Class 52 Rating, Deduct	-108.86	
			For Class 54 Rating, Add	74.22	
			For Class 55 Rating, Add	164.97	
40 05 19 00-1104	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,391.01	248.03
			For Class 52 Rating, Deduct	-111.67	
			For Class 54 Rating, Add	76.14	
			For Class 55 Rating, Add	169.23	
40 05 19 00-1105	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,420.15	250.38
			For Class 52 Rating, Deduct	-114.49	
			For Class 54 Rating, Add	78.06	
			For Class 55 Rating, Add	173.50	
40 05 19 00-1106	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,449.30	252.72
			For Class 52 Rating, Deduct	-117.30	
			For Class 54 Rating, Add	79.98	
			For Class 55 Rating, Add	177.77	
40 05 19 00-1107	EA		6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,478.45	255.05
			For Class 52 Rating, Deduct	-120.12	
			For Class 54 Rating, Add	81.90	
			For Class 55 Rating, Add	182.04	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1108	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,507.59	257.39
		For Class 52 Rating, Deduct		-122.94	
		For Class 54 Rating, Add		83.82	
		For Class 55 Rating, Add		186.30	
40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1110	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		536.57	215.27
		For Class 52 Rating, Deduct		-23.14	
		For Class 54 Rating, Add		15.78	
		For Class 55 Rating, Add		35.07	
40 05 19 00-1111	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		575.32	217.61
		For Class 52 Rating, Deduct		-27.02	
		For Class 54 Rating, Add		18.42	
		For Class 55 Rating, Add		40.94	
40 05 19 00-1112	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		614.06	219.96
		For Class 52 Rating, Deduct		-30.89	
		For Class 54 Rating, Add		21.06	
		For Class 55 Rating, Add		46.81	
40 05 19 00-1113	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		652.81	222.29
		For Class 52 Rating, Deduct		-34.76	
		For Class 54 Rating, Add		23.70	
		For Class 55 Rating, Add		52.68	
40 05 19 00-1114	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		691.55	224.64
		For Class 52 Rating, Deduct		-38.63	
		For Class 54 Rating, Add		26.34	
		For Class 55 Rating, Add		58.55	
40 05 19 00-1115	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		730.30	226.98
		For Class 52 Rating, Deduct		-42.50	
		For Class 54 Rating, Add		28.98	
		For Class 55 Rating, Add		64.41	
40 05 19 00-1116	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		769.05	229.32
		For Class 52 Rating, Deduct		-46.38	
		For Class 54 Rating, Add		31.62	
		For Class 55 Rating, Add		70.28	
40 05 19 00-1117	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		807.79	231.66
		For Class 52 Rating, Deduct		-50.25	
		For Class 54 Rating, Add		34.26	
		For Class 55 Rating, Add		76.15	
40 05 19 00-1118	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		846.54	234.00
		For Class 52 Rating, Deduct		-54.12	
		For Class 54 Rating, Add		36.90	
		For Class 55 Rating, Add		82.02	
40 05 19 00-1119	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		885.28	236.33
		For Class 52 Rating, Deduct		-57.99	
		For Class 54 Rating, Add		39.54	
		For Class 55 Rating, Add		87.88	
40 05 19 00-1120	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		924.03	238.67
		For Class 52 Rating, Deduct		-61.86	
		For Class 54 Rating, Add		42.18	
		For Class 55 Rating, Add		93.75	
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		962.77	241.01
		For Class 52 Rating, Deduct		-65.74	
		For Class 54 Rating, Add		44.82	
		For Class 55 Rating, Add		99.62	
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,001.52	243.36
		For Class 52 Rating, Deduct		-69.61	
		For Class 54 Rating, Add		47.46	
		For Class 55 Rating, Add		105.49	
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,040.26	245.70
		For Class 52 Rating, Deduct		-73.48	
		For Class 54 Rating, Add		50.10	
		For Class 55 Rating, Add		111.36	
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,079.01	248.03
		For Class 52 Rating, Deduct		-77.35	
		For Class 54 Rating, Add		52.74	
		For Class 55 Rating, Add		117.22	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1125	EA		8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,117.75	250.38
			For Class 52 Rating, Deduct	-81.22	
			For Class 54 Rating, Add	55.38	
			For Class 55 Rating, Add	123.09	
40 05 19 00-1126	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,156.50	252.72
			For Class 52 Rating, Deduct	-85.10	
			For Class 54 Rating, Add	58.02	
			For Class 55 Rating, Add	128.96	
40 05 19 00-1127	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,195.25	255.05
			For Class 52 Rating, Deduct	-88.97	
			For Class 54 Rating, Add	60.66	
			For Class 55 Rating, Add	134.83	
40 05 19 00-1128	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,233.99	257.39
			For Class 52 Rating, Deduct	-92.84	
			For Class 54 Rating, Add	63.30	
			For Class 55 Rating, Add	140.69	
40 05 19 00-1129	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,272.74	259.73
			For Class 52 Rating, Deduct	-96.71	
			For Class 54 Rating, Add	65.94	
			For Class 55 Rating, Add	146.56	
40 05 19 00-1130	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,311.48	262.08
			For Class 52 Rating, Deduct	-100.58	
			For Class 54 Rating, Add	68.58	
			For Class 55 Rating, Add	152.43	
40 05 19 00-1131	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,350.23	264.41
			For Class 52 Rating, Deduct	-104.46	
			For Class 54 Rating, Add	71.22	
			For Class 55 Rating, Add	158.30	
40 05 19 00-1132	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,388.97	266.75
			For Class 52 Rating, Deduct	-108.33	
			For Class 54 Rating, Add	73.86	
			For Class 55 Rating, Add	164.17	
40 05 19 00-1133	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,427.72	269.10
			For Class 52 Rating, Deduct	-112.20	
			For Class 54 Rating, Add	76.50	
			For Class 55 Rating, Add	170.03	
40 05 19 00-1134	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,466.46	271.44
			For Class 52 Rating, Deduct	-116.07	
			For Class 54 Rating, Add	79.14	
			For Class 55 Rating, Add	175.90	
40 05 19 00-1135	EA		8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,505.21	273.78
			For Class 52 Rating, Deduct	-119.94	
			For Class 54 Rating, Add	81.78	
			For Class 55 Rating, Add	181.77	
40 05 19 00-1136	EA		8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.95	276.12
			For Class 52 Rating, Deduct	-123.82	
			For Class 54 Rating, Add	84.42	
			For Class 55 Rating, Add	187.64	
40 05 19 00-1137	EA		8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,582.70	278.46
			For Class 52 Rating, Deduct	-127.69	
			For Class 54 Rating, Add	87.06	
			For Class 55 Rating, Add	193.51	
40 05 19 00-1138	EA		8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,621.45	280.79
			For Class 52 Rating, Deduct	-131.56	
			For Class 54 Rating, Add	89.70	
			For Class 55 Rating, Add	199.37	
40 05 19 00-1139	EA		8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,660.19	283.13
			For Class 52 Rating, Deduct	-135.43	
			For Class 54 Rating, Add	92.34	
			For Class 55 Rating, Add	205.24	
40 05 19 00-1140	EA		8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,698.94	285.47
			For Class 52 Rating, Deduct	-139.30	
			For Class 54 Rating, Add	94.98	
			For Class 55 Rating, Add	211.11	
40 05 19 00-1141	EA		8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,737.68	287.82
			For Class 52 Rating, Deduct	-143.18	
			For Class 54 Rating, Add	97.62	
			For Class 55 Rating, Add	216.98	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1142	EA		8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,776.43	290.15
			For Class 52 Rating, Deduct	-147.05	
			For Class 54 Rating, Add	100.26	
			For Class 55 Rating, Add	222.84	
40 05 19 00-1143	EA		8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,815.17	292.50
			For Class 52 Rating, Deduct	-150.92	
			For Class 54 Rating, Add	102.90	
			For Class 55 Rating, Add	228.71	
40 05 19 00-1144	EA		8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,853.92	294.84
			For Class 52 Rating, Deduct	-154.79	
			For Class 54 Rating, Add	105.54	
			For Class 55 Rating, Add	234.58	
40 05 19 00-1145	EA		8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,892.66	297.17
			For Class 52 Rating, Deduct	-158.66	
			For Class 54 Rating, Add	108.18	
			For Class 55 Rating, Add	240.45	
40 05 19 00-1146	EA		8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,931.41	299.52
			For Class 52 Rating, Deduct	-162.54	
			For Class 54 Rating, Add	110.82	
			For Class 55 Rating, Add	246.32	
40 05 19 00-1147	EA		8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,970.16	301.85
			For Class 52 Rating, Deduct	-166.41	
			For Class 54 Rating, Add	113.46	
			For Class 55 Rating, Add	252.18	
40 05 19 00-1148	EA		8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,008.90	304.19
			For Class 52 Rating, Deduct	-170.28	
			For Class 54 Rating, Add	116.10	
			For Class 55 Rating, Add	258.05	
40 05 19 00-1149			10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1150	EA		10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	668.28	262.08
			For Class 52 Rating, Deduct	-29.83	
			For Class 54 Rating, Add	20.34	
			For Class 55 Rating, Add	45.21	
40 05 19 00-1151	EA		10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	718.23	264.41
			For Class 52 Rating, Deduct	-34.94	
			For Class 54 Rating, Add	23.82	
			For Class 55 Rating, Add	52.94	
40 05 19 00-1152	EA		10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	768.17	266.75
			For Class 52 Rating, Deduct	-40.04	
			For Class 54 Rating, Add	27.30	
			For Class 55 Rating, Add	60.68	
40 05 19 00-1153	EA		10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	818.12	269.10
			For Class 52 Rating, Deduct	-45.14	
			For Class 54 Rating, Add	30.78	
			For Class 55 Rating, Add	68.41	
40 05 19 00-1154	EA		10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	868.06	271.44
			For Class 52 Rating, Deduct	-50.25	
			For Class 54 Rating, Add	34.26	
			For Class 55 Rating, Add	76.15	
40 05 19 00-1155	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	918.01	273.78
			For Class 52 Rating, Deduct	-55.35	
			For Class 54 Rating, Add	37.74	
			For Class 55 Rating, Add	83.88	
40 05 19 00-1156	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	967.95	276.12
			For Class 52 Rating, Deduct	-60.46	
			For Class 54 Rating, Add	41.22	
			For Class 55 Rating, Add	91.62	
40 05 19 00-1157	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,017.90	278.46
			For Class 52 Rating, Deduct	-65.56	
			For Class 54 Rating, Add	44.70	
			For Class 55 Rating, Add	99.35	
40 05 19 00-1158	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,067.85	280.79
			For Class 52 Rating, Deduct	-70.66	
			For Class 54 Rating, Add	48.18	
			For Class 55 Rating, Add	107.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1159	EA	10"	Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,117.79	283.13
			For Class 52 Rating, Deduct	-75.77	
			For Class 54 Rating, Add	51.66	
			For Class 55 Rating, Add	114.82	
40 05 19 00-1160	EA	10"	Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,167.74	285.47
			For Class 52 Rating, Deduct	-80.87	
			For Class 54 Rating, Add	55.14	
			For Class 55 Rating, Add	122.56	
40 05 19 00-1161	EA	10"	Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,217.68	287.82
			For Class 52 Rating, Deduct	-85.98	
			For Class 54 Rating, Add	58.62	
			For Class 55 Rating, Add	130.29	
40 05 19 00-1162	EA	10"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,267.63	290.15
			For Class 52 Rating, Deduct	-91.08	
			For Class 54 Rating, Add	62.10	
			For Class 55 Rating, Add	138.03	
40 05 19 00-1163	EA	10"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,317.57	292.50
			For Class 52 Rating, Deduct	-96.18	
			For Class 54 Rating, Add	65.58	
			For Class 55 Rating, Add	145.76	
40 05 19 00-1164	EA	10"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,367.52	294.84
			For Class 52 Rating, Deduct	-101.29	
			For Class 54 Rating, Add	69.06	
			For Class 55 Rating, Add	153.50	
40 05 19 00-1165	EA	10"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,417.46	297.17
			For Class 52 Rating, Deduct	-106.39	
			For Class 54 Rating, Add	72.54	
			For Class 55 Rating, Add	161.23	
40 05 19 00-1166	EA	10"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,467.41	299.52
			For Class 52 Rating, Deduct	-111.50	
			For Class 54 Rating, Add	76.02	
			For Class 55 Rating, Add	168.97	
40 05 19 00-1167	EA	10"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,517.36	301.85
			For Class 52 Rating, Deduct	-116.60	
			For Class 54 Rating, Add	79.50	
			For Class 55 Rating, Add	176.70	
40 05 19 00-1168	EA	10"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,567.30	304.19
			For Class 52 Rating, Deduct	-121.70	
			For Class 54 Rating, Add	82.98	
			For Class 55 Rating, Add	184.44	
40 05 19 00-1169	EA	10"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,617.25	306.53
			For Class 52 Rating, Deduct	-126.81	
			For Class 54 Rating, Add	86.46	
			For Class 55 Rating, Add	192.17	
40 05 19 00-1170	EA	10"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,667.19	308.87
			For Class 52 Rating, Deduct	-131.91	
			For Class 54 Rating, Add	89.94	
			For Class 55 Rating, Add	199.91	
40 05 19 00-1171	EA	10"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,717.14	311.22
			For Class 52 Rating, Deduct	-137.02	
			For Class 54 Rating, Add	93.42	
			For Class 55 Rating, Add	207.64	
40 05 19 00-1172	EA	10"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,767.08	313.55
			For Class 52 Rating, Deduct	-142.12	
			For Class 54 Rating, Add	96.90	
			For Class 55 Rating, Add	215.38	
40 05 19 00-1173	EA	10"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,817.03	315.89
			For Class 52 Rating, Deduct	-147.22	
			For Class 54 Rating, Add	100.38	
			For Class 55 Rating, Add	223.11	
40 05 19 00-1174	EA	10"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,866.97	318.24
			For Class 52 Rating, Deduct	-152.33	
			For Class 54 Rating, Add	103.86	
			For Class 55 Rating, Add	230.85	
40 05 19 00-1175	EA	10"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,916.92	320.58
			For Class 52 Rating, Deduct	-157.43	
			For Class 54 Rating, Add	107.34	
			For Class 55 Rating, Add	238.58	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1176	EA		10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,966.86	322.92
			For Class 52 Rating, Deduct	-162.54	
			For Class 54 Rating, Add	110.82	
			For Class 55 Rating, Add	246.32	
40 05 19 00-1177	EA		10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,016.81	325.25
			For Class 52 Rating, Deduct	-167.64	
			For Class 54 Rating, Add	114.30	
			For Class 55 Rating, Add	254.05	
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,066.76	327.59
			For Class 52 Rating, Deduct	-172.74	
			For Class 54 Rating, Add	117.78	
			For Class 55 Rating, Add	261.79	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.70	329.94
			For Class 52 Rating, Deduct	-177.85	
			For Class 54 Rating, Add	121.26	
			For Class 55 Rating, Add	269.52	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,166.65	332.27
			For Class 52 Rating, Deduct	-182.95	
			For Class 54 Rating, Add	124.74	
			For Class 55 Rating, Add	277.26	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,216.59	334.61
			For Class 52 Rating, Deduct	-188.06	
			For Class 54 Rating, Add	128.22	
			For Class 55 Rating, Add	284.99	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,266.54	336.96
			For Class 52 Rating, Deduct	-193.16	
			For Class 54 Rating, Add	131.70	
			For Class 55 Rating, Add	292.73	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,316.48	339.29
			For Class 52 Rating, Deduct	-198.26	
			For Class 54 Rating, Add	135.18	
			For Class 55 Rating, Add	300.46	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,366.43	341.64
			For Class 52 Rating, Deduct	-203.37	
			For Class 54 Rating, Add	138.66	
			For Class 55 Rating, Add	308.19	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,416.37	343.98
			For Class 52 Rating, Deduct	-208.47	
			For Class 54 Rating, Add	142.14	
			For Class 55 Rating, Add	315.93	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,466.32	346.32
			For Class 52 Rating, Deduct	-213.58	
			For Class 54 Rating, Add	145.62	
			For Class 55 Rating, Add	323.66	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,516.26	348.65
			For Class 52 Rating, Deduct	-218.68	
			For Class 54 Rating, Add	149.10	
			For Class 55 Rating, Add	331.40	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,566.21	350.99
			For Class 52 Rating, Deduct	-223.78	
			For Class 54 Rating, Add	152.58	
			For Class 55 Rating, Add	339.13	
40 05 19 00-1189			12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	857.96	327.59
			For Class 52 Rating, Deduct	-39.78	
			For Class 54 Rating, Add	27.12	
			For Class 55 Rating, Add	60.28	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	919.90	329.94
			For Class 52 Rating, Deduct	-46.20	
			For Class 54 Rating, Add	31.50	
			For Class 55 Rating, Add	70.01	
40 05 19 00-1192	EA		12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	981.85	332.27
			For Class 52 Rating, Deduct	-52.62	
			For Class 54 Rating, Add	35.88	
			For Class 55 Rating, Add	79.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1193	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,043.79	334.61	
		For Class 52 Rating, Deduct	-59.05		
		For Class 54 Rating, Add	40.26		
		For Class 55 Rating, Add	89.48		
40 05 19 00-1194	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,105.74	336.96	
		For Class 52 Rating, Deduct	-65.47		
		For Class 54 Rating, Add	44.64		
		For Class 55 Rating, Add	99.22		
40 05 19 00-1195	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,167.68	339.29	
		For Class 52 Rating, Deduct	-71.90		
		For Class 54 Rating, Add	49.02		
		For Class 55 Rating, Add	108.96		
40 05 19 00-1196	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,229.63	341.64	
		For Class 52 Rating, Deduct	-78.32		
		For Class 54 Rating, Add	53.40		
		For Class 55 Rating, Add	118.69		
40 05 19 00-1197	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,291.57	343.98	
		For Class 52 Rating, Deduct	-84.74		
		For Class 54 Rating, Add	57.78		
		For Class 55 Rating, Add	128.43		
40 05 19 00-1198	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,353.52	346.32	
		For Class 52 Rating, Deduct	-91.17		
		For Class 54 Rating, Add	62.16		
		For Class 55 Rating, Add	138.16		
40 05 19 00-1199	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,415.46	348.65	
		For Class 52 Rating, Deduct	-97.59		
		For Class 54 Rating, Add	66.54		
		For Class 55 Rating, Add	147.90		
40 05 19 00-1200	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,477.41	350.99	
		For Class 52 Rating, Deduct	-104.02		
		For Class 54 Rating, Add	70.92		
		For Class 55 Rating, Add	157.63		
40 05 19 00-1201	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,539.36	353.33	
		For Class 52 Rating, Deduct	-110.44		
		For Class 54 Rating, Add	75.30		
		For Class 55 Rating, Add	167.37		
40 05 19 00-1202	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,601.30	355.67	
		For Class 52 Rating, Deduct	-116.86		
		For Class 54 Rating, Add	79.68		
		For Class 55 Rating, Add	177.10		
40 05 19 00-1203	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.25	358.01	
		For Class 52 Rating, Deduct	-123.29		
		For Class 54 Rating, Add	84.06		
		For Class 55 Rating, Add	186.84		
40 05 19 00-1204	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,725.19	360.36	
		For Class 52 Rating, Deduct	-129.71		
		For Class 54 Rating, Add	88.44		
		For Class 55 Rating, Add	196.57		
40 05 19 00-1205	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,787.14	362.70	
		For Class 52 Rating, Deduct	-136.14		
		For Class 54 Rating, Add	92.82		
		For Class 55 Rating, Add	206.31		
40 05 19 00-1206	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,849.08	365.03	
		For Class 52 Rating, Deduct	-142.56		
		For Class 54 Rating, Add	97.20		
		For Class 55 Rating, Add	216.04		
40 05 19 00-1207	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,911.03	367.38	
		For Class 52 Rating, Deduct	-148.98		
		For Class 54 Rating, Add	101.58		
		For Class 55 Rating, Add	225.78		
40 05 19 00-1208	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,972.97	369.71	
		For Class 52 Rating, Deduct	-155.41		
		For Class 54 Rating, Add	105.96		
		For Class 55 Rating, Add	235.51		
40 05 19 00-1209	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,034.92	372.05	
		For Class 52 Rating, Deduct	-161.83		
		For Class 54 Rating, Add	110.34		
		For Class 55 Rating, Add	245.25		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,096.86	374.39
			For Class 52 Rating, Deduct	-168.26	
			For Class 54 Rating, Add	114.72	
			For Class 55 Rating, Add	254.98	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.81	376.73
			For Class 52 Rating, Deduct	-174.68	
			For Class 54 Rating, Add	119.10	
			For Class 55 Rating, Add	264.72	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,220.76	379.08
			For Class 52 Rating, Deduct	-181.10	
			For Class 54 Rating, Add	123.48	
			For Class 55 Rating, Add	274.45	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,282.70	381.41
			For Class 52 Rating, Deduct	-187.53	
			For Class 54 Rating, Add	127.86	
			For Class 55 Rating, Add	284.19	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,344.65	383.75
			For Class 52 Rating, Deduct	-193.95	
			For Class 54 Rating, Add	132.24	
			For Class 55 Rating, Add	293.93	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,406.59	386.10
			For Class 52 Rating, Deduct	-200.38	
			For Class 54 Rating, Add	136.62	
			For Class 55 Rating, Add	303.66	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,468.54	388.44
			For Class 52 Rating, Deduct	-206.80	
			For Class 54 Rating, Add	141.00	
			For Class 55 Rating, Add	313.40	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,530.48	390.77
			For Class 52 Rating, Deduct	-213.22	
			For Class 54 Rating, Add	145.38	
			For Class 55 Rating, Add	323.13	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,592.43	393.11
			For Class 52 Rating, Deduct	-219.65	
			For Class 54 Rating, Add	149.76	
			For Class 55 Rating, Add	332.87	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,654.37	395.45
			For Class 52 Rating, Deduct	-226.07	
			For Class 54 Rating, Add	154.14	
			For Class 55 Rating, Add	342.60	
40 05 19 00-1220	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,716.32	397.79
			For Class 52 Rating, Deduct	-232.50	
			For Class 54 Rating, Add	158.52	
			For Class 55 Rating, Add	352.34	
40 05 19 00-1221	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,778.26	400.13
			For Class 52 Rating, Deduct	-238.92	
			For Class 54 Rating, Add	162.90	
			For Class 55 Rating, Add	362.07	
40 05 19 00-1222	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,840.21	402.47
			For Class 52 Rating, Deduct	-245.34	
			For Class 54 Rating, Add	167.28	
			For Class 55 Rating, Add	371.81	
40 05 19 00-1223	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,902.16	404.82
			For Class 52 Rating, Deduct	-251.77	
			For Class 54 Rating, Add	171.66	
			For Class 55 Rating, Add	381.54	
40 05 19 00-1224	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,964.10	407.15
			For Class 52 Rating, Deduct	-258.19	
			For Class 54 Rating, Add	176.04	
			For Class 55 Rating, Add	391.28	
40 05 19 00-1225	EA		12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.05	409.50
			For Class 52 Rating, Deduct	-264.62	
			For Class 54 Rating, Add	180.42	
			For Class 55 Rating, Add	401.01	
40 05 19 00-1226	EA		12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,087.99	411.84
			For Class 52 Rating, Deduct	-271.04	
			For Class 54 Rating, Add	184.80	
			For Class 55 Rating, Add	410.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1227	EA		12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,149.94	414.16
			For Class 52 Rating, Deduct	-277.46	
			For Class 54 Rating, Add	189.18	
			For Class 55 Rating, Add	420.48	
40 05 19 00-1228	EA		12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,211.88	416.51
			For Class 52 Rating, Deduct	-283.89	
			For Class 54 Rating, Add	193.56	
			For Class 55 Rating, Add	430.22	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1230	EA		14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,111.63	393.11
			For Class 52 Rating, Deduct	-56.76	
			For Class 54 Rating, Add	38.70	
			For Class 55 Rating, Add	86.02	
40 05 19 00-1231	EA		14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,186.37	395.45
			For Class 52 Rating, Deduct	-64.59	
			For Class 54 Rating, Add	44.04	
			For Class 55 Rating, Add	97.89	
40 05 19 00-1232	EA		14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,261.12	397.79
			For Class 52 Rating, Deduct	-72.42	
			For Class 54 Rating, Add	49.38	
			For Class 55 Rating, Add	109.76	
40 05 19 00-1233	EA		14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,335.86	400.13
			For Class 52 Rating, Deduct	-80.26	
			For Class 54 Rating, Add	54.72	
			For Class 55 Rating, Add	121.62	
40 05 19 00-1234	EA		14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,410.61	402.47
			For Class 52 Rating, Deduct	-88.09	
			For Class 54 Rating, Add	60.06	
			For Class 55 Rating, Add	133.49	
40 05 19 00-1235	EA		14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,485.36	404.82
			For Class 52 Rating, Deduct	-95.92	
			For Class 54 Rating, Add	65.40	
			For Class 55 Rating, Add	145.36	
40 05 19 00-1236	EA		14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,560.10	407.15
			For Class 52 Rating, Deduct	-103.75	
			For Class 54 Rating, Add	70.74	
			For Class 55 Rating, Add	157.23	
40 05 19 00-1237	EA		14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,634.85	409.50
			For Class 52 Rating, Deduct	-111.58	
			For Class 54 Rating, Add	76.08	
			For Class 55 Rating, Add	169.10	
40 05 19 00-1238	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,709.59	411.84
			For Class 52 Rating, Deduct	-119.42	
			For Class 54 Rating, Add	81.42	
			For Class 55 Rating, Add	180.97	
40 05 19 00-1239	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,784.34	414.16
			For Class 52 Rating, Deduct	-127.25	
			For Class 54 Rating, Add	86.76	
			For Class 55 Rating, Add	192.84	
40 05 19 00-1240	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,859.08	416.51
			For Class 52 Rating, Deduct	-135.08	
			For Class 54 Rating, Add	92.10	
			For Class 55 Rating, Add	204.71	
40 05 19 00-1241	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,933.83	418.85
			For Class 52 Rating, Deduct	-142.91	
			For Class 54 Rating, Add	97.44	
			For Class 55 Rating, Add	216.58	
40 05 19 00-1242	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,008.57	421.20
			For Class 52 Rating, Deduct	-150.74	
			For Class 54 Rating, Add	102.78	
			For Class 55 Rating, Add	228.45	
40 05 19 00-1243	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,083.32	423.53
			For Class 52 Rating, Deduct	-158.58	
			For Class 54 Rating, Add	108.12	
			For Class 55 Rating, Add	240.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.06	425.87
			For Class 52 Rating, Deduct	-166.41	
			For Class 54 Rating, Add	113.46	
			For Class 55 Rating, Add	252.18	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,232.81	428.22
			For Class 52 Rating, Deduct	-174.24	
			For Class 54 Rating, Add	118.80	
			For Class 55 Rating, Add	264.05	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,307.56	430.55
			For Class 52 Rating, Deduct	-182.07	
			For Class 54 Rating, Add	124.14	
			For Class 55 Rating, Add	275.92	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,382.30	432.89
			For Class 52 Rating, Deduct	-189.90	
			For Class 54 Rating, Add	129.48	
			For Class 55 Rating, Add	287.79	
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,457.05	435.24
			For Class 52 Rating, Deduct	-197.74	
			For Class 54 Rating, Add	134.82	
			For Class 55 Rating, Add	299.66	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,531.79	437.57
			For Class 52 Rating, Deduct	-205.57	
			For Class 54 Rating, Add	140.16	
			For Class 55 Rating, Add	311.53	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,606.54	439.91
			For Class 52 Rating, Deduct	-213.40	
			For Class 54 Rating, Add	145.50	
			For Class 55 Rating, Add	323.40	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,681.28	442.25
			For Class 52 Rating, Deduct	-221.23	
			For Class 54 Rating, Add	150.84	
			For Class 55 Rating, Add	335.27	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,756.03	444.59
			For Class 52 Rating, Deduct	-229.06	
			For Class 54 Rating, Add	156.18	
			For Class 55 Rating, Add	347.14	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,830.77	446.94
			For Class 52 Rating, Deduct	-236.90	
			For Class 54 Rating, Add	161.52	
			For Class 55 Rating, Add	359.01	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,905.52	449.27
			For Class 52 Rating, Deduct	-244.73	
			For Class 54 Rating, Add	166.86	
			For Class 55 Rating, Add	370.87	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,980.26	451.61
			For Class 52 Rating, Deduct	-252.56	
			For Class 54 Rating, Add	172.20	
			For Class 55 Rating, Add	382.74	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,055.01	453.96
			For Class 52 Rating, Deduct	-260.39	
			For Class 54 Rating, Add	177.54	
			For Class 55 Rating, Add	394.61	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,129.76	456.29
			For Class 52 Rating, Deduct	-268.22	
			For Class 54 Rating, Add	182.88	
			For Class 55 Rating, Add	406.48	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,204.50	458.63
			For Class 52 Rating, Deduct	-276.06	
			For Class 54 Rating, Add	188.22	
			For Class 55 Rating, Add	418.35	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,279.25	460.97
			For Class 52 Rating, Deduct	-283.89	
			For Class 54 Rating, Add	193.56	
			For Class 55 Rating, Add	430.22	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,353.99	463.31
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1261	EA		14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,428.74	465.65
			For Class 52 Rating, Deduct	-299.55	
			For Class 54 Rating, Add	204.24	
			For Class 55 Rating, Add	453.96	
40 05 19 00-1262	EA		14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.48	467.99
			For Class 52 Rating, Deduct	-307.38	
			For Class 54 Rating, Add	209.58	
			For Class 55 Rating, Add	465.83	
40 05 19 00-1263	EA		14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,578.23	470.34
			For Class 52 Rating, Deduct	-315.22	
			For Class 54 Rating, Add	214.92	
			For Class 55 Rating, Add	477.70	
40 05 19 00-1264	EA		14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,652.97	472.67
			For Class 52 Rating, Deduct	-323.05	
			For Class 54 Rating, Add	220.26	
			For Class 55 Rating, Add	489.56	
40 05 19 00-1265	EA		14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,727.72	475.01
			For Class 52 Rating, Deduct	-330.88	
			For Class 54 Rating, Add	225.60	
			For Class 55 Rating, Add	501.43	
40 05 19 00-1266	EA		14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,802.46	477.36
			For Class 52 Rating, Deduct	-338.71	
			For Class 54 Rating, Add	230.94	
			For Class 55 Rating, Add	513.30	
40 05 19 00-1267	EA		14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,877.21	479.70
			For Class 52 Rating, Deduct	-346.54	
			For Class 54 Rating, Add	236.28	
			For Class 55 Rating, Add	525.17	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1269	EA		16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,291.12	449.27
			For Class 52 Rating, Deduct	-67.14	
			For Class 54 Rating, Add	45.78	
			For Class 55 Rating, Add	101.75	
40 05 19 00-1270	EA		16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,377.86	451.61
			For Class 52 Rating, Deduct	-76.30	
			For Class 54 Rating, Add	52.02	
			For Class 55 Rating, Add	115.62	
40 05 19 00-1271	EA		16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,464.61	453.96
			For Class 52 Rating, Deduct	-85.45	
			For Class 54 Rating, Add	58.26	
			For Class 55 Rating, Add	129.49	
40 05 19 00-1272	EA		16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,551.36	456.29
			For Class 52 Rating, Deduct	-94.60	
			For Class 54 Rating, Add	64.50	
			For Class 55 Rating, Add	143.36	
40 05 19 00-1273	EA		16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,638.10	458.63
			For Class 52 Rating, Deduct	-103.75	
			For Class 54 Rating, Add	70.74	
			For Class 55 Rating, Add	157.23	
40 05 19 00-1274	EA		16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,724.85	460.97
			For Class 52 Rating, Deduct	-112.90	
			For Class 54 Rating, Add	76.98	
			For Class 55 Rating, Add	171.10	
40 05 19 00-1275	EA		16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,811.59	463.31
			For Class 52 Rating, Deduct	-122.06	
			For Class 54 Rating, Add	83.22	
			For Class 55 Rating, Add	184.97	
40 05 19 00-1276	EA		16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,898.34	465.65
			For Class 52 Rating, Deduct	-131.21	
			For Class 54 Rating, Add	89.46	
			For Class 55 Rating, Add	198.84	
40 05 19 00-1277	EA		16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,985.08	467.99
			For Class 52 Rating, Deduct	-140.36	
			For Class 54 Rating, Add	95.70	
			For Class 55 Rating, Add	212.71	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1278	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,071.83	470.34
			For Class 52 Rating, Deduct	-149.51	
			For Class 54 Rating, Add	101.94	
			For Class 55 Rating, Add	226.58	
40 05 19 00-1279	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.57	472.67
			For Class 52 Rating, Deduct	-158.66	
			For Class 54 Rating, Add	108.18	
			For Class 55 Rating, Add	240.45	
40 05 19 00-1280	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,245.32	475.01
			For Class 52 Rating, Deduct	-167.82	
			For Class 54 Rating, Add	114.42	
			For Class 55 Rating, Add	254.32	
40 05 19 00-1281	EA		16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,332.06	477.36
			For Class 52 Rating, Deduct	-176.97	
			For Class 54 Rating, Add	120.66	
			For Class 55 Rating, Add	268.19	
40 05 19 00-1282	EA		16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,418.81	479.70
			For Class 52 Rating, Deduct	-186.12	
			For Class 54 Rating, Add	126.90	
			For Class 55 Rating, Add	282.06	
40 05 19 00-1283	EA		16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,505.55	482.02
			For Class 52 Rating, Deduct	-195.27	
			For Class 54 Rating, Add	133.14	
			For Class 55 Rating, Add	295.93	
40 05 19 00-1284	EA		16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,592.29	484.37
			For Class 52 Rating, Deduct	-204.42	
			For Class 54 Rating, Add	139.38	
			For Class 55 Rating, Add	309.80	
40 05 19 00-1285	EA		16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,679.04	486.71
			For Class 52 Rating, Deduct	-213.58	
			For Class 54 Rating, Add	145.62	
			For Class 55 Rating, Add	323.66	
40 05 19 00-1286	EA		16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,765.78	489.05
			For Class 52 Rating, Deduct	-222.73	
			For Class 54 Rating, Add	151.86	
			For Class 55 Rating, Add	337.53	
40 05 19 00-1287	EA		16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,852.53	491.39
			For Class 52 Rating, Deduct	-231.88	
			For Class 54 Rating, Add	158.10	
			For Class 55 Rating, Add	351.40	
40 05 19 00-1288	EA		16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,939.27	493.73
			For Class 52 Rating, Deduct	-241.03	
			For Class 54 Rating, Add	164.34	
			For Class 55 Rating, Add	365.27	
40 05 19 00-1289	EA		16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.02	496.08
			For Class 52 Rating, Deduct	-250.18	
			For Class 54 Rating, Add	170.58	
			For Class 55 Rating, Add	379.14	
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,112.76	498.41
			For Class 52 Rating, Deduct	-259.34	
			For Class 54 Rating, Add	176.82	
			For Class 55 Rating, Add	393.01	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,199.51	500.75
			For Class 52 Rating, Deduct	-268.49	
			For Class 54 Rating, Add	183.06	
			For Class 55 Rating, Add	406.88	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,286.25	503.09
			For Class 52 Rating, Deduct	-277.64	
			For Class 54 Rating, Add	189.30	
			For Class 55 Rating, Add	420.75	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,373.00	505.43
			For Class 52 Rating, Deduct	-286.79	
			For Class 54 Rating, Add	195.54	
			For Class 55 Rating, Add	434.62	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,459.75	507.77
			For Class 52 Rating, Deduct	-295.94	
			For Class 54 Rating, Add	201.78	
			For Class 55 Rating, Add	448.49	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,546.49	510.11
			For Class 52 Rating, Deduct	-305.10	
			For Class 54 Rating, Add	208.02	
			For Class 55 Rating, Add	462.36	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,633.24	512.45
			For Class 52 Rating, Deduct	-314.25	
			For Class 54 Rating, Add	214.26	
			For Class 55 Rating, Add	476.23	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,719.98	514.79
			For Class 52 Rating, Deduct	-323.40	
			For Class 54 Rating, Add	220.50	
			For Class 55 Rating, Add	490.10	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,806.73	517.13
			For Class 52 Rating, Deduct	-332.55	
			For Class 54 Rating, Add	226.74	
			For Class 55 Rating, Add	503.97	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,893.47	519.48
			For Class 52 Rating, Deduct	-341.70	
			For Class 54 Rating, Add	232.98	
			For Class 55 Rating, Add	517.84	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,980.22	521.82
			For Class 52 Rating, Deduct	-350.86	
			For Class 54 Rating, Add	239.22	
			For Class 55 Rating, Add	531.71	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,066.96	524.15
			For Class 52 Rating, Deduct	-360.01	
			For Class 54 Rating, Add	245.46	
			For Class 55 Rating, Add	545.58	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,153.71	526.49
			For Class 52 Rating, Deduct	-369.16	
			For Class 54 Rating, Add	251.70	
			For Class 55 Rating, Add	559.45	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,240.46	528.83
			For Class 52 Rating, Deduct	-378.31	
			For Class 54 Rating, Add	257.94	
			For Class 55 Rating, Add	573.31	
40 05 19 00-1304	EA		16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,327.20	531.16
			For Class 52 Rating, Deduct	-387.46	
			For Class 54 Rating, Add	264.18	
			For Class 55 Rating, Add	587.18	
40 05 19 00-1305	EA		16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,413.95	533.51
			For Class 52 Rating, Deduct	-396.62	
			For Class 54 Rating, Add	270.42	
			For Class 55 Rating, Add	601.05	
40 05 19 00-1306	EA		16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,500.69	535.85
			For Class 52 Rating, Deduct	-405.77	
			For Class 54 Rating, Add	276.66	
			For Class 55 Rating, Add	614.92	
40 05 19 00-1307			18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1308	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,483.22	506.37
			For Class 52 Rating, Deduct	-78.76	
			For Class 54 Rating, Add	53.70	
			For Class 55 Rating, Add	119.36	
40 05 19 00-1309	EA		18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,582.77	508.71
			For Class 52 Rating, Deduct	-89.32	
			For Class 54 Rating, Add	60.90	
			For Class 55 Rating, Add	135.36	
40 05 19 00-1310	EA		18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,682.31	511.04
			For Class 52 Rating, Deduct	-99.88	
			For Class 54 Rating, Add	68.10	
			For Class 55 Rating, Add	151.36	
40 05 19 00-1311	EA		18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,781.86	513.39
			For Class 52 Rating, Deduct	-110.44	
			For Class 54 Rating, Add	75.30	
			For Class 55 Rating, Add	167.37	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1312	EA		18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,881.40	515.73
			For Class 52 Rating, Deduct	-121.00	
			For Class 54 Rating, Add	82.50	
			For Class 55 Rating, Add	183.37	
40 05 19 00-1313	EA		18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.95	518.06
			For Class 52 Rating, Deduct	-131.56	
			For Class 54 Rating, Add	89.70	
			For Class 55 Rating, Add	199.37	
40 05 19 00-1314	EA		18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,080.49	520.41
			For Class 52 Rating, Deduct	-142.12	
			For Class 54 Rating, Add	96.90	
			For Class 55 Rating, Add	215.38	
40 05 19 00-1315	EA		18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,180.04	522.75
			For Class 52 Rating, Deduct	-152.68	
			For Class 54 Rating, Add	104.10	
			For Class 55 Rating, Add	231.38	
40 05 19 00-1316	EA		18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,279.58	525.09
			For Class 52 Rating, Deduct	-163.24	
			For Class 54 Rating, Add	111.30	
			For Class 55 Rating, Add	247.38	
40 05 19 00-1317	EA		18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,379.13	527.42
			For Class 52 Rating, Deduct	-173.80	
			For Class 54 Rating, Add	118.50	
			For Class 55 Rating, Add	263.39	
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,478.68	529.76
			For Class 52 Rating, Deduct	-184.36	
			For Class 54 Rating, Add	125.70	
			For Class 55 Rating, Add	279.39	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,578.22	532.11
			For Class 52 Rating, Deduct	-194.92	
			For Class 54 Rating, Add	132.90	
			For Class 55 Rating, Add	295.39	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,677.77	534.44
			For Class 52 Rating, Deduct	-205.48	
			For Class 54 Rating, Add	140.10	
			For Class 55 Rating, Add	311.40	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,777.31	536.79
			For Class 52 Rating, Deduct	-216.04	
			For Class 54 Rating, Add	147.30	
			For Class 55 Rating, Add	327.40	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,876.86	539.13
			For Class 52 Rating, Deduct	-226.60	
			For Class 54 Rating, Add	154.50	
			For Class 55 Rating, Add	343.40	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,976.40	541.47
			For Class 52 Rating, Deduct	-237.16	
			For Class 54 Rating, Add	161.70	
			For Class 55 Rating, Add	359.41	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,075.95	543.81
			For Class 52 Rating, Deduct	-247.72	
			For Class 54 Rating, Add	168.90	
			For Class 55 Rating, Add	375.41	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,175.49	546.15
			For Class 52 Rating, Deduct	-258.28	
			For Class 54 Rating, Add	176.10	
			For Class 55 Rating, Add	391.41	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,275.04	548.48
			For Class 52 Rating, Deduct	-268.84	
			For Class 54 Rating, Add	183.30	
			For Class 55 Rating, Add	407.41	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,374.58	550.82
			For Class 52 Rating, Deduct	-279.40	
			For Class 54 Rating, Add	190.50	
			For Class 55 Rating, Add	423.42	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,474.13	553.16
			For Class 52 Rating, Deduct	-289.96	
			For Class 54 Rating, Add	197.70	
			For Class 55 Rating, Add	439.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1329	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,573.68	555.51
			For Class 52 Rating, Deduct	-300.52	
			For Class 54 Rating, Add	204.90	
			For Class 55 Rating, Add	455.42	
40 05 19 00-1330	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,673.22	557.85
			For Class 52 Rating, Deduct	-311.08	
			For Class 54 Rating, Add	212.10	
			For Class 55 Rating, Add	471.43	
40 05 19 00-1331	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,772.77	560.18
			For Class 52 Rating, Deduct	-321.64	
			For Class 54 Rating, Add	219.30	
			For Class 55 Rating, Add	487.43	
40 05 19 00-1332	EA		18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,872.31	562.53
			For Class 52 Rating, Deduct	-332.20	
			For Class 54 Rating, Add	226.50	
			For Class 55 Rating, Add	503.43	
40 05 19 00-1333	EA		18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,971.86	564.87
			For Class 52 Rating, Deduct	-342.76	
			For Class 54 Rating, Add	233.70	
			For Class 55 Rating, Add	519.44	
40 05 19 00-1334	EA		18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,071.40	567.21
			For Class 52 Rating, Deduct	-353.32	
			For Class 54 Rating, Add	240.90	
			For Class 55 Rating, Add	535.44	
40 05 19 00-1335	EA		18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,170.95	569.54
			For Class 52 Rating, Deduct	-363.88	
			For Class 54 Rating, Add	248.10	
			For Class 55 Rating, Add	551.44	
40 05 19 00-1336	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,270.49	571.88
			For Class 52 Rating, Deduct	-374.44	
			For Class 54 Rating, Add	255.30	
			For Class 55 Rating, Add	567.45	
40 05 19 00-1337	EA		18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,370.04	574.23
			For Class 52 Rating, Deduct	-385.00	
			For Class 54 Rating, Add	262.50	
			For Class 55 Rating, Add	583.45	
40 05 19 00-1338	EA		18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,469.58	576.56
			For Class 52 Rating, Deduct	-395.56	
			For Class 54 Rating, Add	269.70	
			For Class 55 Rating, Add	599.45	
40 05 19 00-1339	EA		18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,569.13	578.90
			For Class 52 Rating, Deduct	-406.12	
			For Class 54 Rating, Add	276.90	
			For Class 55 Rating, Add	615.46	
40 05 19 00-1340	EA		18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,668.68	581.25
			For Class 52 Rating, Deduct	-416.68	
			For Class 54 Rating, Add	284.10	
			For Class 55 Rating, Add	631.46	
40 05 19 00-1341	EA		18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,768.22	583.59
			For Class 52 Rating, Deduct	-427.24	
			For Class 54 Rating, Add	291.30	
			For Class 55 Rating, Add	647.46	
40 05 19 00-1342	EA		18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,867.77	585.93
			For Class 52 Rating, Deduct	-437.80	
			For Class 54 Rating, Add	298.50	
			For Class 55 Rating, Add	663.47	
40 05 19 00-1343	EA		18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,967.31	588.27
			For Class 52 Rating, Deduct	-448.36	
			For Class 54 Rating, Add	305.70	
			For Class 55 Rating, Add	679.47	
40 05 19 00-1344	EA		18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,066.86	590.61
			For Class 52 Rating, Deduct	-458.92	
			For Class 54 Rating, Add	312.90	
			For Class 55 Rating, Add	695.47	
40 05 19 00-1345	EA		18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,166.40	592.94
			For Class 52 Rating, Deduct	-469.48	
			For Class 54 Rating, Add	320.10	
			For Class 55 Rating, Add	711.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1346	20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1347	EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,718.91		577.97
	For Class 52 Rating, Deduct	-92.75		
	For Class 54 Rating, Add	63.24		
	For Class 55 Rating, Add	140.56		
40 05 19 00-1348	EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.86		580.31
	For Class 52 Rating, Deduct	-104.90		
	For Class 54 Rating, Add	71.52		
	For Class 55 Rating, Add	158.97		
40 05 19 00-1349	EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,946.80		582.65
	For Class 52 Rating, Deduct	-117.04		
	For Class 54 Rating, Add	79.80		
	For Class 55 Rating, Add	177.37		
40 05 19 00-1350	EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,060.75		584.99
	For Class 52 Rating, Deduct	-129.18		
	For Class 54 Rating, Add	88.08		
	For Class 55 Rating, Add	195.77		
40 05 19 00-1351	EA 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,174.69		587.34
	For Class 52 Rating, Deduct	-141.33		
	For Class 54 Rating, Add	96.36		
	For Class 55 Rating, Add	214.18		
40 05 19 00-1352	EA 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,288.64		589.67
	For Class 52 Rating, Deduct	-153.47		
	For Class 54 Rating, Add	104.64		
	For Class 55 Rating, Add	232.58		
40 05 19 00-1353	EA 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,402.58		592.00
	For Class 52 Rating, Deduct	-165.62		
	For Class 54 Rating, Add	112.92		
	For Class 55 Rating, Add	250.98		
40 05 19 00-1354	EA 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,516.53		594.35
	For Class 52 Rating, Deduct	-177.76		
	For Class 54 Rating, Add	121.20		
	For Class 55 Rating, Add	269.39		
40 05 19 00-1355	EA 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,630.47		596.69
	For Class 52 Rating, Deduct	-189.90		
	For Class 54 Rating, Add	129.48		
	For Class 55 Rating, Add	287.79		
40 05 19 00-1356	EA 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.42		599.02
	For Class 52 Rating, Deduct	-202.05		
	For Class 54 Rating, Add	137.76		
	For Class 55 Rating, Add	306.19		
40 05 19 00-1357	EA 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,858.36		601.37
	For Class 52 Rating, Deduct	-214.19		
	For Class 54 Rating, Add	146.04		
	For Class 55 Rating, Add	324.60		
40 05 19 00-1358	EA 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,972.31		603.71
	For Class 52 Rating, Deduct	-226.34		
	For Class 54 Rating, Add	154.32		
	For Class 55 Rating, Add	343.00		
40 05 19 00-1359	EA 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,086.26		606.05
	For Class 52 Rating, Deduct	-238.48		
	For Class 54 Rating, Add	162.60		
	For Class 55 Rating, Add	361.41		
40 05 19 00-1360	EA 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,200.20		608.39
	For Class 52 Rating, Deduct	-250.62		
	For Class 54 Rating, Add	170.88		
	For Class 55 Rating, Add	379.81		
40 05 19 00-1361	EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,314.15		610.73
	For Class 52 Rating, Deduct	-262.77		
	For Class 54 Rating, Add	179.16		
	For Class 55 Rating, Add	398.21		
40 05 19 00-1362	EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,428.09		613.08
	For Class 52 Rating, Deduct	-274.91		
	For Class 54 Rating, Add	187.44		
	For Class 55 Rating, Add	416.62		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1363	EA		20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,542.04	615.40
			For Class 52 Rating, Deduct	-287.06	
			For Class 54 Rating, Add	195.72	
			For Class 55 Rating, Add	435.02	
40 05 19 00-1364	EA		20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,655.98	617.75
			For Class 52 Rating, Deduct	-299.20	
			For Class 54 Rating, Add	204.00	
			For Class 55 Rating, Add	453.42	
40 05 19 00-1365	EA		20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,769.93	620.09
			For Class 52 Rating, Deduct	-311.34	
			For Class 54 Rating, Add	212.28	
			For Class 55 Rating, Add	471.83	
40 05 19 00-1366	EA		20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,883.87	622.43
			For Class 52 Rating, Deduct	-323.49	
			For Class 54 Rating, Add	220.56	
			For Class 55 Rating, Add	490.23	
40 05 19 00-1367	EA		20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,997.82	624.77
			For Class 52 Rating, Deduct	-335.63	
			For Class 54 Rating, Add	228.84	
			For Class 55 Rating, Add	508.64	
40 05 19 00-1368	EA		20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,111.76	627.11
			For Class 52 Rating, Deduct	-347.78	
			For Class 54 Rating, Add	237.12	
			For Class 55 Rating, Add	527.04	
40 05 19 00-1369	EA		20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,225.71	629.45
			For Class 52 Rating, Deduct	-359.92	
			For Class 54 Rating, Add	245.40	
			For Class 55 Rating, Add	545.44	
40 05 19 00-1370	EA		20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,339.66	631.79
			For Class 52 Rating, Deduct	-372.06	
			For Class 54 Rating, Add	253.68	
			For Class 55 Rating, Add	563.85	
40 05 19 00-1371	EA		20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,453.60	634.13
			For Class 52 Rating, Deduct	-384.21	
			For Class 54 Rating, Add	261.96	
			For Class 55 Rating, Add	582.25	
40 05 19 00-1372	EA		20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,567.55	636.48
			For Class 52 Rating, Deduct	-396.35	
			For Class 54 Rating, Add	270.24	
			For Class 55 Rating, Add	600.65	
40 05 19 00-1373	EA		20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,681.49	638.81
			For Class 52 Rating, Deduct	-408.50	
			For Class 54 Rating, Add	278.52	
			For Class 55 Rating, Add	619.06	
40 05 19 00-1374	EA		20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,795.44	641.14
			For Class 52 Rating, Deduct	-420.64	
			For Class 54 Rating, Add	286.80	
			For Class 55 Rating, Add	637.46	
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,909.38	643.49
			For Class 52 Rating, Deduct	-432.78	
			For Class 54 Rating, Add	295.08	
			For Class 55 Rating, Add	655.86	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,023.33	645.83
			For Class 52 Rating, Deduct	-444.93	
			For Class 54 Rating, Add	303.36	
			For Class 55 Rating, Add	674.27	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,137.27	648.16
			For Class 52 Rating, Deduct	-457.07	
			For Class 54 Rating, Add	311.64	
			For Class 55 Rating, Add	692.67	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,251.22	650.51
			For Class 52 Rating, Deduct	-469.22	
			For Class 54 Rating, Add	319.92	
			For Class 55 Rating, Add	711.08	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,365.16	652.85
			For Class 52 Rating, Deduct	-481.36	
			For Class 54 Rating, Add	328.20	
			For Class 55 Rating, Add	729.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,479.11	655.20
			For Class 52 Rating, Deduct	-493.50	
			For Class 54 Rating, Add	336.48	
			For Class 55 Rating, Add	747.88	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,593.06	657.53
			For Class 52 Rating, Deduct	-505.65	
			For Class 54 Rating, Add	344.76	
			For Class 55 Rating, Add	766.29	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,707.00	659.86
			For Class 52 Rating, Deduct	-517.79	
			For Class 54 Rating, Add	353.04	
			For Class 55 Rating, Add	784.69	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,820.95	662.21
			For Class 52 Rating, Deduct	-529.94	
			For Class 54 Rating, Add	361.32	
			For Class 55 Rating, Add	803.09	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,934.89	664.54
			For Class 52 Rating, Deduct	-542.08	
			For Class 54 Rating, Add	369.60	
			For Class 55 Rating, Add	821.50	
40 05 19 00-1385 24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,088.06	683.26
			For Class 52 Rating, Deduct	-115.81	
			For Class 54 Rating, Add	78.96	
			For Class 55 Rating, Add	175.50	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,228.40	685.61
			For Class 52 Rating, Deduct	-130.86	
			For Class 54 Rating, Add	89.22	
			For Class 55 Rating, Add	198.31	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,368.75	687.95
			For Class 52 Rating, Deduct	-145.90	
			For Class 54 Rating, Add	99.48	
			For Class 55 Rating, Add	221.11	
40 05 19 00-1389	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,509.09	690.28
			For Class 52 Rating, Deduct	-160.95	
			For Class 54 Rating, Add	109.74	
			For Class 55 Rating, Add	243.92	
40 05 19 00-1390	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,649.44	692.63
			For Class 52 Rating, Deduct	-176.00	
			For Class 54 Rating, Add	120.00	
			For Class 55 Rating, Add	266.72	
40 05 19 00-1391	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,789.78	694.97
			For Class 52 Rating, Deduct	-191.05	
			For Class 54 Rating, Add	130.26	
			For Class 55 Rating, Add	289.52	
40 05 19 00-1392	EA		24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,930.13	697.31
			For Class 52 Rating, Deduct	-206.10	
			For Class 54 Rating, Add	140.52	
			For Class 55 Rating, Add	312.33	
40 05 19 00-1393	EA		24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.47	699.65
			For Class 52 Rating, Deduct	-221.14	
			For Class 54 Rating, Add	150.78	
			For Class 55 Rating, Add	335.13	
40 05 19 00-1394	EA		24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,210.82	701.99
			For Class 52 Rating, Deduct	-236.19	
			For Class 54 Rating, Add	161.04	
			For Class 55 Rating, Add	357.94	
40 05 19 00-1395	EA		24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,351.17	704.33
			For Class 52 Rating, Deduct	-251.24	
			For Class 54 Rating, Add	171.30	
			For Class 55 Rating, Add	380.74	
40 05 19 00-1396	EA		24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,491.51	706.66
			For Class 52 Rating, Deduct	-266.29	
			For Class 54 Rating, Add	181.56	
			For Class 55 Rating, Add	403.55	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1397	EA		24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,631.86	709.00
			For Class 52 Rating, Deduct	-281.34	
			For Class 54 Rating, Add	191.82	
			For Class 55 Rating, Add	426.35	
40 05 19 00-1398	EA		24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,772.20	711.35
			For Class 52 Rating, Deduct	-296.38	
			For Class 54 Rating, Add	202.08	
			For Class 55 Rating, Add	449.16	
40 05 19 00-1399	EA		24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,912.55	713.69
			For Class 52 Rating, Deduct	-311.43	
			For Class 54 Rating, Add	212.34	
			For Class 55 Rating, Add	471.96	
40 05 19 00-1400	EA		24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,052.89	716.02
			For Class 52 Rating, Deduct	-326.48	
			For Class 54 Rating, Add	222.60	
			For Class 55 Rating, Add	494.77	
40 05 19 00-1401	EA		24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,193.24	718.37
			For Class 52 Rating, Deduct	-341.53	
			For Class 54 Rating, Add	232.86	
			For Class 55 Rating, Add	517.57	
40 05 19 00-1402	EA		24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,333.58	720.71
			For Class 52 Rating, Deduct	-356.58	
			For Class 54 Rating, Add	243.12	
			For Class 55 Rating, Add	540.37	
40 05 19 00-1403	EA		24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,473.93	723.05
			For Class 52 Rating, Deduct	-371.62	
			For Class 54 Rating, Add	253.38	
			For Class 55 Rating, Add	563.18	
40 05 19 00-1404	EA		24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,614.27	725.39
			For Class 52 Rating, Deduct	-386.67	
			For Class 54 Rating, Add	263.64	
			For Class 55 Rating, Add	585.98	
40 05 19 00-1405	EA		24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,754.62	727.72
			For Class 52 Rating, Deduct	-401.72	
			For Class 54 Rating, Add	273.90	
			For Class 55 Rating, Add	608.79	
40 05 19 00-1406	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,894.97	730.07
			For Class 52 Rating, Deduct	-416.77	
			For Class 54 Rating, Add	284.16	
			For Class 55 Rating, Add	631.59	
40 05 19 00-1407	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,035.31	732.40
			For Class 52 Rating, Deduct	-431.82	
			For Class 54 Rating, Add	294.42	
			For Class 55 Rating, Add	654.40	
40 05 19 00-1408	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,175.66	734.75
			For Class 52 Rating, Deduct	-446.86	
			For Class 54 Rating, Add	304.68	
			For Class 55 Rating, Add	677.20	
40 05 19 00-1409	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,316.00	737.09
			For Class 52 Rating, Deduct	-461.91	
			For Class 54 Rating, Add	314.94	
			For Class 55 Rating, Add	700.01	
40 05 19 00-1410	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,456.35	739.43
			For Class 52 Rating, Deduct	-476.96	
			For Class 54 Rating, Add	325.20	
			For Class 55 Rating, Add	722.81	
40 05 19 00-1411	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,596.69	741.77
			For Class 52 Rating, Deduct	-492.01	
			For Class 54 Rating, Add	335.46	
			For Class 55 Rating, Add	745.62	
40 05 19 00-1412	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,737.04	744.11
			For Class 52 Rating, Deduct	-507.06	
			For Class 54 Rating, Add	345.72	
			For Class 55 Rating, Add	768.42	
40 05 19 00-1413	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,877.38	746.45
			For Class 52 Rating, Deduct	-522.10	
			For Class 54 Rating, Add	355.98	
			For Class 55 Rating, Add	791.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,017.73	748.78
			For Class 52 Rating, Deduct	-537.15	
			For Class 54 Rating, Add	366.24	
			For Class 55 Rating, Add	814.03	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,218.35	790.91
			For Class 52 Rating, Deduct	-552.20	
			For Class 54 Rating, Add	376.50	
			For Class 55 Rating, Add	836.83	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,358.69	793.24
			For Class 52 Rating, Deduct	-567.25	
			For Class 54 Rating, Add	386.76	
			For Class 55 Rating, Add	859.64	
40 05 19 00-1417	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,499.04	795.58
			For Class 52 Rating, Deduct	-582.30	
			For Class 54 Rating, Add	397.02	
			For Class 55 Rating, Add	882.44	
40 05 19 00-1418	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,639.38	797.93
			For Class 52 Rating, Deduct	-597.34	
			For Class 54 Rating, Add	407.28	
			For Class 55 Rating, Add	905.25	
40 05 19 00-1419	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,779.73	800.26
			For Class 52 Rating, Deduct	-612.39	
			For Class 54 Rating, Add	417.54	
			For Class 55 Rating, Add	928.05	
40 05 19 00-1420	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,920.06	802.61
			For Class 52 Rating, Deduct	-627.44	
			For Class 54 Rating, Add	427.80	
			For Class 55 Rating, Add	950.86	
40 05 19 00-1421	EA		24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,060.42	804.95
			For Class 52 Rating, Deduct	-642.49	
			For Class 54 Rating, Add	438.06	
			For Class 55 Rating, Add	973.66	
40 05 19 00-1422	EA		24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,200.76	807.28
			For Class 52 Rating, Deduct	-657.54	
			For Class 54 Rating, Add	448.32	
			For Class 55 Rating, Add	996.47	
40 05 19 00-1423	EA		24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,341.10	809.63
			For Class 52 Rating, Deduct	-672.58	
			For Class 54 Rating, Add	458.58	
			For Class 55 Rating, Add	1,019.27	
40 05 19 00-1424			30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1425	EA		30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,124.70	964.07
			For Class 52 Rating, Deduct	-183.04	
			For Class 54 Rating, Add	124.80	
			For Class 55 Rating, Add	277.39	
40 05 19 00-1426	EA		30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,325.85	966.40
			For Class 52 Rating, Deduct	-204.78	
			For Class 54 Rating, Add	139.62	
			For Class 55 Rating, Add	310.33	
40 05 19 00-1427	EA		30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,526.99	968.75
			For Class 52 Rating, Deduct	-226.51	
			For Class 54 Rating, Add	154.44	
			For Class 55 Rating, Add	343.27	
40 05 19 00-1428	EA		30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,728.14	971.09
			For Class 52 Rating, Deduct	-248.25	
			For Class 54 Rating, Add	169.26	
			For Class 55 Rating, Add	376.21	
40 05 19 00-1429	EA		30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,929.28	973.42
			For Class 52 Rating, Deduct	-269.98	
			For Class 54 Rating, Add	184.08	
			For Class 55 Rating, Add	409.15	
40 05 19 00-1430	EA		30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,130.43	975.76
			For Class 52 Rating, Deduct	-291.72	
			For Class 54 Rating, Add	198.90	
			For Class 55 Rating, Add	442.09	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,331.57	978.10
		For Class 52 Rating, Deduct	-313.46	
		For Class 54 Rating, Add	213.72	
		For Class 55 Rating, Add	475.03	
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,532.72	980.45
		For Class 52 Rating, Deduct	-335.19	
		For Class 54 Rating, Add	228.54	
		For Class 55 Rating, Add	507.97	
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,733.87	982.78
		For Class 52 Rating, Deduct	-356.93	
		For Class 54 Rating, Add	243.36	
		For Class 55 Rating, Add	540.91	
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,935.01	985.12
		For Class 52 Rating, Deduct	-378.66	
		For Class 54 Rating, Add	258.18	
		For Class 55 Rating, Add	573.85	
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,136.16	987.47
		For Class 52 Rating, Deduct	-400.40	
		For Class 54 Rating, Add	273.00	
		For Class 55 Rating, Add	606.79	
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,337.30	989.81
		For Class 52 Rating, Deduct	-422.14	
		For Class 54 Rating, Add	287.82	
		For Class 55 Rating, Add	639.73	
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,538.45	992.14
		For Class 52 Rating, Deduct	-443.87	
		For Class 54 Rating, Add	302.64	
		For Class 55 Rating, Add	672.67	
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,739.59	994.48
		For Class 52 Rating, Deduct	-465.61	
		For Class 54 Rating, Add	317.46	
		For Class 55 Rating, Add	705.61	
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,940.74	996.82
		For Class 52 Rating, Deduct	-487.34	
		For Class 54 Rating, Add	332.28	
		For Class 55 Rating, Add	738.55	
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,141.88	999.16
		For Class 52 Rating, Deduct	-509.08	
		For Class 54 Rating, Add	347.10	
		For Class 55 Rating, Add	771.49	
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,343.03	1,001.50
		For Class 52 Rating, Deduct	-530.82	
		For Class 54 Rating, Add	361.92	
		For Class 55 Rating, Add	804.43	
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,544.17	1,003.84
		For Class 52 Rating, Deduct	-552.55	
		For Class 54 Rating, Add	376.74	
		For Class 55 Rating, Add	837.37	
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,745.32	1,006.19
		For Class 52 Rating, Deduct	-574.29	
		For Class 54 Rating, Add	391.56	
		For Class 55 Rating, Add	870.31	
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,946.47	1,008.52
		For Class 52 Rating, Deduct	-596.02	
		For Class 54 Rating, Add	406.38	
		For Class 55 Rating, Add	903.25	
40 05 19 00-1445	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,147.61	1,010.86
		For Class 52 Rating, Deduct	-617.76	
		For Class 54 Rating, Add	421.20	
		For Class 55 Rating, Add	936.19	
40 05 19 00-1446	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,348.76	1,013.21
		For Class 52 Rating, Deduct	-639.50	
		For Class 54 Rating, Add	436.02	
		For Class 55 Rating, Add	969.13	
40 05 19 00-1447	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,549.90	1,015.53
		For Class 52 Rating, Deduct	-661.23	
		For Class 54 Rating, Add	450.84	
		For Class 55 Rating, Add	1,002.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1448	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,751.05	1,017.88
			For Class 52 Rating, Deduct	-682.97	
			For Class 54 Rating, Add	465.66	
			For Class 55 Rating, Add	1,035.01	
40 05 19 00-1449	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,952.19	1,020.22
			For Class 52 Rating, Deduct	-704.70	
			For Class 54 Rating, Add	480.48	
			For Class 55 Rating, Add	1,067.95	
40 05 19 00-1450	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,153.34	1,022.56
			For Class 52 Rating, Deduct	-726.44	
			For Class 54 Rating, Add	495.30	
			For Class 55 Rating, Add	1,100.89	
40 05 19 00-1451	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,354.48	1,024.90
			For Class 52 Rating, Deduct	-748.18	
			For Class 54 Rating, Add	510.12	
			For Class 55 Rating, Add	1,133.83	
40 05 19 00-1452	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,555.63	1,027.24
			For Class 52 Rating, Deduct	-769.91	
			For Class 54 Rating, Add	524.94	
			For Class 55 Rating, Add	1,166.77	
40 05 19 00-1453	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,756.77	1,029.59
			For Class 52 Rating, Deduct	-791.65	
			For Class 54 Rating, Add	539.76	
			For Class 55 Rating, Add	1,199.71	
40 05 19 00-1454	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,957.92	1,031.93
			For Class 52 Rating, Deduct	-813.38	
			For Class 54 Rating, Add	554.58	
			For Class 55 Rating, Add	1,232.65	
40 05 19 00-1455	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,159.07	1,034.26
			For Class 52 Rating, Deduct	-835.12	
			For Class 54 Rating, Add	569.40	
			For Class 55 Rating, Add	1,265.59	
40 05 19 00-1456	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,360.21	1,036.61
			For Class 52 Rating, Deduct	-856.86	
			For Class 54 Rating, Add	584.22	
			For Class 55 Rating, Add	1,298.53	
40 05 19 00-1457	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,561.36	1,038.94
			For Class 52 Rating, Deduct	-878.59	
			For Class 54 Rating, Add	599.04	
			For Class 55 Rating, Add	1,331.47	
40 05 19 00-1458	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,762.50	1,041.27
			For Class 52 Rating, Deduct	-900.33	
			For Class 54 Rating, Add	613.86	
			For Class 55 Rating, Add	1,364.41	
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,963.65	1,043.62
			For Class 52 Rating, Deduct	-922.06	
			For Class 54 Rating, Add	628.68	
			For Class 55 Rating, Add	1,397.35	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,164.79	1,045.96
			For Class 52 Rating, Deduct	-943.80	
			For Class 54 Rating, Add	643.50	
			For Class 55 Rating, Add	1,430.29	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,365.94	1,048.31
			For Class 52 Rating, Deduct	-965.54	
			For Class 54 Rating, Add	658.32	
			For Class 55 Rating, Add	1,463.23	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,567.08	1,050.64
			For Class 52 Rating, Deduct	-987.27	
			For Class 54 Rating, Add	673.14	
			For Class 55 Rating, Add	1,496.17	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
			(40 05 19 00-1028)		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,220.29	1,221.46
			For Class 52 Rating, Deduct	-260.66	
			For Class 54 Rating, Add	177.72	
			For Class 55 Rating, Add	395.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,492.64	1,223.80
			For Class 52 Rating, Deduct	-290.22	
			For Class 54 Rating, Add	197.88	
			For Class 55 Rating, Add	439.82	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,764.98	1,226.13
			For Class 52 Rating, Deduct	-319.79	
			For Class 54 Rating, Add	218.04	
			For Class 55 Rating, Add	484.63	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,037.33	1,228.48
			For Class 52 Rating, Deduct	-349.36	
			For Class 54 Rating, Add	238.20	
			For Class 55 Rating, Add	529.44	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,309.67	1,230.82
			For Class 52 Rating, Deduct	-378.93	
			For Class 54 Rating, Add	258.36	
			For Class 55 Rating, Add	574.25	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,582.02	1,233.16
			For Class 52 Rating, Deduct	-408.50	
			For Class 54 Rating, Add	278.52	
			For Class 55 Rating, Add	619.06	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,854.37	1,235.50
			For Class 52 Rating, Deduct	-438.06	
			For Class 54 Rating, Add	298.68	
			For Class 55 Rating, Add	663.87	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,126.71	1,237.84
			For Class 52 Rating, Deduct	-467.63	
			For Class 54 Rating, Add	318.84	
			For Class 55 Rating, Add	708.68	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,399.06	1,240.18
			For Class 52 Rating, Deduct	-497.20	
			For Class 54 Rating, Add	339.00	
			For Class 55 Rating, Add	753.48	
40 05 19 00-1473	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,671.40	1,242.51
			For Class 52 Rating, Deduct	-526.77	
			For Class 54 Rating, Add	359.16	
			For Class 55 Rating, Add	798.29	
40 05 19 00-1474	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,943.75	1,244.86
			For Class 52 Rating, Deduct	-556.34	
			For Class 54 Rating, Add	379.32	
			For Class 55 Rating, Add	843.10	
40 05 19 00-1475	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,216.09	1,247.20
			For Class 52 Rating, Deduct	-585.90	
			For Class 54 Rating, Add	399.48	
			For Class 55 Rating, Add	887.91	
40 05 19 00-1476	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,488.44	1,249.53
			For Class 52 Rating, Deduct	-615.47	
			For Class 54 Rating, Add	419.64	
			For Class 55 Rating, Add	932.72	
40 05 19 00-1477	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,760.78	1,251.88
			For Class 52 Rating, Deduct	-645.04	
			For Class 54 Rating, Add	439.80	
			For Class 55 Rating, Add	977.53	
40 05 19 00-1478	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,033.13	1,254.22
			For Class 52 Rating, Deduct	-674.61	
			For Class 54 Rating, Add	459.96	
			For Class 55 Rating, Add	1,022.34	
40 05 19 00-1479	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,305.47	1,256.56
			For Class 52 Rating, Deduct	-704.18	
			For Class 54 Rating, Add	480.12	
			For Class 55 Rating, Add	1,067.15	
40 05 19 00-1480	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,577.82	1,258.90
			For Class 52 Rating, Deduct	-733.74	
			For Class 54 Rating, Add	500.28	
			For Class 55 Rating, Add	1,111.96	
40 05 19 00-1481	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,850.17	1,261.24
			For Class 52 Rating, Deduct	-763.31	
			For Class 54 Rating, Add	520.44	
			For Class 55 Rating, Add	1,156.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1482	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,122.51	1,263.58
			For Class 52 Rating, Deduct	-792.88	
			For Class 54 Rating, Add	540.60	
			For Class 55 Rating, Add	1,201.57	
40 05 19 00-1483	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,394.86	1,265.92
			For Class 52 Rating, Deduct	-822.45	
			For Class 54 Rating, Add	560.76	
			For Class 55 Rating, Add	1,246.38	
40 05 19 00-1484	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,667.20	1,268.25
			For Class 52 Rating, Deduct	-852.02	
			For Class 54 Rating, Add	580.92	
			For Class 55 Rating, Add	1,291.19	
40 05 19 00-1485	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,939.55	1,270.60
			For Class 52 Rating, Deduct	-881.58	
			For Class 54 Rating, Add	601.08	
			For Class 55 Rating, Add	1,336.00	
40 05 19 00-1486	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,211.89	1,272.94
			For Class 52 Rating, Deduct	-911.15	
			For Class 54 Rating, Add	621.24	
			For Class 55 Rating, Add	1,380.81	
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,484.24	1,275.27
			For Class 52 Rating, Deduct	-940.72	
			For Class 54 Rating, Add	641.40	
			For Class 55 Rating, Add	1,425.62	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,756.58	1,277.62
			For Class 52 Rating, Deduct	-970.29	
			For Class 54 Rating, Add	661.56	
			For Class 55 Rating, Add	1,470.43	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,028.93	1,279.96
			For Class 52 Rating, Deduct	-999.86	
			For Class 54 Rating, Add	681.72	
			For Class 55 Rating, Add	1,515.24	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,301.28	1,282.31
			For Class 52 Rating, Deduct	-1,029.42	
			For Class 54 Rating, Add	701.88	
			For Class 55 Rating, Add	1,560.05	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,573.62	1,284.63
			For Class 52 Rating, Deduct	-1,058.99	
			For Class 54 Rating, Add	722.04	
			For Class 55 Rating, Add	1,604.85	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,845.97	1,286.97
			For Class 52 Rating, Deduct	-1,088.56	
			For Class 54 Rating, Add	742.20	
			For Class 55 Rating, Add	1,649.66	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,118.31	1,289.32
			For Class 52 Rating, Deduct	-1,118.13	
			For Class 54 Rating, Add	762.36	
			For Class 55 Rating, Add	1,694.47	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,390.66	1,291.65
			For Class 52 Rating, Deduct	-1,147.70	
			For Class 54 Rating, Add	782.52	
			For Class 55 Rating, Add	1,739.28	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,663.00	1,294.00
			For Class 52 Rating, Deduct	-1,177.26	
			For Class 54 Rating, Add	802.68	
			For Class 55 Rating, Add	1,784.09	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,935.35	1,296.34
			For Class 52 Rating, Deduct	-1,206.83	
			For Class 54 Rating, Add	822.84	
			For Class 55 Rating, Add	1,828.90	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,207.69	1,298.68
			For Class 52 Rating, Deduct	-1,236.40	
			For Class 54 Rating, Add	843.00	
			For Class 55 Rating, Add	1,873.71	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,480.04	1,301.02
			For Class 52 Rating, Deduct	-1,265.97	
			For Class 54 Rating, Add	863.16	
			For Class 55 Rating, Add	1,918.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,752.38	1,303.36
			For Class 52 Rating, Deduct	-1,295.54	
			For Class 54 Rating, Add	883.32	
			For Class 55 Rating, Add	1,963.33	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,024.73	1,305.70
			For Class 52 Rating, Deduct	-1,325.10	
			For Class 54 Rating, Add	903.48	
			For Class 55 Rating, Add	2,008.13	
40 05 19 00-1501	EA		36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,297.08	1,308.03
			For Class 52 Rating, Deduct	-1,354.67	
			For Class 54 Rating, Add	923.64	
			For Class 55 Rating, Add	2,052.94	
40 05 19 00-1502			42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1503	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,509.67	1,539.70
			For Class 52 Rating, Deduct	-349.45	
			For Class 54 Rating, Add	238.26	
			For Class 55 Rating, Add	529.57	
40 05 19 00-1504	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,914.81	1,542.03
			For Class 52 Rating, Deduct	-393.62	
			For Class 54 Rating, Add	268.38	
			For Class 55 Rating, Add	596.52	
40 05 19 00-1505	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,315.16	1,544.37
			For Class 52 Rating, Deduct	-437.27	
			For Class 54 Rating, Add	298.14	
			For Class 55 Rating, Add	662.67	
40 05 19 00-1506	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	6,719.50	1,546.72
			For Class 52 Rating, Deduct	-481.36	
			For Class 54 Rating, Add	328.20	
			For Class 55 Rating, Add	729.48	
40 05 19 00-1507	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,119.85	1,549.06
			For Class 52 Rating, Deduct	-525.01	
			For Class 54 Rating, Add	357.96	
			For Class 55 Rating, Add	795.63	
40 05 19 00-1508	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,524.99	1,551.38
			For Class 52 Rating, Deduct	-569.18	
			For Class 54 Rating, Add	388.08	
			For Class 55 Rating, Add	862.57	
40 05 19 00-1509	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	7,924.54	1,553.73
			For Class 52 Rating, Deduct	-612.74	
			For Class 54 Rating, Add	417.78	
			For Class 55 Rating, Add	928.59	
40 05 19 00-1510	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,329.68	1,556.07
			For Class 52 Rating, Deduct	-656.92	
			For Class 54 Rating, Add	447.90	
			For Class 55 Rating, Add	995.53	
40 05 19 00-1511	EA		42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	8,730.03	1,558.42
			For Class 52 Rating, Deduct	-700.57	
			For Class 54 Rating, Add	477.66	
			For Class 55 Rating, Add	1,061.68	
40 05 19 00-1512	EA		42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,134.38	1,560.75
			For Class 52 Rating, Deduct	-744.66	
			For Class 54 Rating, Add	507.72	
			For Class 55 Rating, Add	1,128.49	
40 05 19 00-1513	EA		42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,534.72	1,563.09
			For Class 52 Rating, Deduct	-788.30	
			For Class 54 Rating, Add	537.48	
			For Class 55 Rating, Add	1,194.64	
40 05 19 00-1514	EA		42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	9,939.07	1,565.44
			For Class 52 Rating, Deduct	-832.39	
			For Class 54 Rating, Add	567.54	
			For Class 55 Rating, Add	1,261.45	
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	10,339.41	1,567.77
			For Class 52 Rating, Deduct	-876.04	
			For Class 54 Rating, Add	597.30	
			For Class 55 Rating, Add	1,327.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,740.56	1,570.11
			For Class 52 Rating, Deduct	-919.78	
			For Class 54 Rating, Add	627.12	
			For Class 55 Rating, Add	1,393.88	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,144.10	1,572.46
			For Class 52 Rating, Deduct	-963.78	
			For Class 54 Rating, Add	657.12	
			For Class 55 Rating, Add	1,460.56	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,544.45	1,574.79
			For Class 52 Rating, Deduct	-1,007.42	
			For Class 54 Rating, Add	686.88	
			For Class 55 Rating, Add	1,526.71	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,949.59	1,577.13
			For Class 52 Rating, Deduct	-1,051.60	
			For Class 54 Rating, Add	717.00	
			For Class 55 Rating, Add	1,593.65	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,349.94	1,579.47
			For Class 52 Rating, Deduct	-1,095.25	
			For Class 54 Rating, Add	746.76	
			For Class 55 Rating, Add	1,659.80	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,754.28	1,581.81
			For Class 52 Rating, Deduct	-1,139.34	
			For Class 54 Rating, Add	776.82	
			For Class 55 Rating, Add	1,726.61	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,154.63	1,584.15
			For Class 52 Rating, Deduct	-1,182.98	
			For Class 54 Rating, Add	806.58	
			For Class 55 Rating, Add	1,792.76	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,559.78	1,586.49
			For Class 52 Rating, Deduct	-1,227.16	
			For Class 54 Rating, Add	836.70	
			For Class 55 Rating, Add	1,859.71	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,960.12	1,588.83
			For Class 52 Rating, Deduct	-1,270.81	
			For Class 54 Rating, Add	866.46	
			For Class 55 Rating, Add	1,925.85	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,364.47	1,591.18
			For Class 52 Rating, Deduct	-1,314.90	
			For Class 54 Rating, Add	896.52	
			For Class 55 Rating, Add	1,992.67	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,764.81	1,593.51
			For Class 52 Rating, Deduct	-1,358.54	
			For Class 54 Rating, Add	926.28	
			For Class 55 Rating, Add	2,058.81	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,169.96	1,595.86
			For Class 52 Rating, Deduct	-1,402.72	
			For Class 54 Rating, Add	956.40	
			For Class 55 Rating, Add	2,125.76	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,570.30	1,598.19
			For Class 52 Rating, Deduct	-1,446.37	
			For Class 54 Rating, Add	986.16	
			For Class 55 Rating, Add	2,191.90	
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,973.85	1,600.52
			For Class 52 Rating, Deduct	-1,490.37	
			For Class 54 Rating, Add	1,016.16	
			For Class 55 Rating, Add	2,258.58	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,374.99	1,602.87
			For Class 52 Rating, Deduct	-1,534.10	
			For Class 54 Rating, Add	1,045.98	
			For Class 55 Rating, Add	2,324.86	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,695.34	1,605.21
			For Class 52 Rating, Deduct	-1,568.95	
			For Class 54 Rating, Add	1,069.74	
			For Class 55 Rating, Add	2,377.68	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,179.68	1,607.56
			For Class 52 Rating, Deduct	-1,621.84	
			For Class 54 Rating, Add	1,105.80	
			For Class 55 Rating, Add	2,457.82	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1533	EA		42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,580.03	1,609.89
			For Class 52 Rating, Deduct	-1,665.49	
			For Class 54 Rating, Add	1,135.56	
			For Class 55 Rating, Add	2,523.97	
40 05 19 00-1534	EA		42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,984.38	1,612.23
			For Class 52 Rating, Deduct	-1,709.58	
			For Class 54 Rating, Add	1,165.62	
			For Class 55 Rating, Add	2,590.78	
40 05 19 00-1535	EA		42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,384.72	1,614.58
			For Class 52 Rating, Deduct	-1,753.22	
			For Class 54 Rating, Add	1,195.38	
			For Class 55 Rating, Add	2,656.93	
40 05 19 00-1536	EA		42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,789.87	1,616.92
			For Class 52 Rating, Deduct	-1,797.40	
			For Class 54 Rating, Add	1,225.50	
			For Class 55 Rating, Add	2,723.88	
40 05 19 00-1537	EA		42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,189.41	1,619.24
			For Class 52 Rating, Deduct	-1,840.96	
			For Class 54 Rating, Add	1,255.20	
			For Class 55 Rating, Add	2,789.89	
40 05 19 00-1538	EA		42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,594.56	1,621.59
			For Class 52 Rating, Deduct	-1,885.14	
			For Class 54 Rating, Add	1,285.32	
			For Class 55 Rating, Add	2,856.84	
40 05 19 00-1539	EA		42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,994.90	1,623.93
			For Class 52 Rating, Deduct	-1,928.78	
			For Class 54 Rating, Add	1,315.08	
			For Class 55 Rating, Add	2,922.98	
40 05 19 00-1540	EA		42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,399.25	1,626.27
			For Class 52 Rating, Deduct	-1,972.87	
			For Class 54 Rating, Add	1,345.14	
			For Class 55 Rating, Add	2,989.80	
40 05 19 00-1541			48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1542	EA		48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,063.24	1,935.14
			For Class 52 Rating, Deduct	-454.43	
			For Class 54 Rating, Add	309.84	
			For Class 55 Rating, Add	688.67	
40 05 19 00-1543	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,651.59	1,937.48
			For Class 52 Rating, Deduct	-518.76	
			For Class 54 Rating, Add	353.70	
			For Class 55 Rating, Add	786.16	
40 05 19 00-1544	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,239.13	1,939.83
			For Class 52 Rating, Deduct	-583.00	
			For Class 54 Rating, Add	397.50	
			For Class 55 Rating, Add	883.51	
40 05 19 00-1545	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,831.48	1,942.17
			For Class 52 Rating, Deduct	-647.77	
			For Class 54 Rating, Add	441.66	
			For Class 55 Rating, Add	981.66	
40 05 19 00-1546	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,419.82	1,944.50
			For Class 52 Rating, Deduct	-712.10	
			For Class 54 Rating, Add	485.52	
			For Class 55 Rating, Add	1,079.15	
40 05 19 00-1547	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,008.17	1,946.85
			For Class 52 Rating, Deduct	-776.42	
			For Class 54 Rating, Add	529.38	
			For Class 55 Rating, Add	1,176.64	
40 05 19 00-1548	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,599.71	1,949.19
			For Class 52 Rating, Deduct	-841.10	
			For Class 54 Rating, Add	573.48	
			For Class 55 Rating, Add	1,274.65	
40 05 19 00-1549	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,188.86	1,951.53
			For Class 52 Rating, Deduct	-905.52	
			For Class 54 Rating, Add	617.40	
			For Class 55 Rating, Add	1,372.27	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,776.40	1,953.86
			For Class 52 Rating, Deduct	-969.76	
			For Class 54 Rating, Add	661.20	
			For Class 55 Rating, Add	1,469.63	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,368.75	1,956.20
			For Class 52 Rating, Deduct	-1,034.53	
			For Class 54 Rating, Add	705.36	
			For Class 55 Rating, Add	1,567.78	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,957.09	1,958.55
			For Class 52 Rating, Deduct	-1,098.86	
			For Class 54 Rating, Add	749.22	
			For Class 55 Rating, Add	1,665.27	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,549.44	1,960.88
			For Class 52 Rating, Deduct	-1,163.62	
			For Class 54 Rating, Add	793.38	
			For Class 55 Rating, Add	1,763.42	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,136.99	1,963.22
			For Class 52 Rating, Deduct	-1,227.86	
			For Class 54 Rating, Add	837.18	
			For Class 55 Rating, Add	1,860.77	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,725.33	1,965.57
			For Class 52 Rating, Deduct	-1,292.19	
			For Class 54 Rating, Add	881.04	
			For Class 55 Rating, Add	1,958.26	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,317.68	1,967.91
			For Class 52 Rating, Deduct	-1,356.96	
			For Class 54 Rating, Add	925.20	
			For Class 55 Rating, Add	2,056.41	
40 05 19 00-1557	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,906.02	1,970.25
			For Class 52 Rating, Deduct	-1,421.29	
			For Class 54 Rating, Add	969.06	
			For Class 55 Rating, Add	2,153.90	
40 05 19 00-1558	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,493.57	1,972.59
			For Class 52 Rating, Deduct	-1,485.53	
			For Class 54 Rating, Add	1,012.86	
			For Class 55 Rating, Add	2,251.25	
40 05 19 00-1559	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,085.91	1,974.93
			For Class 52 Rating, Deduct	-1,550.30	
			For Class 54 Rating, Add	1,057.02	
			For Class 55 Rating, Add	2,349.40	
40 05 19 00-1560	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,674.26	1,977.26
			For Class 52 Rating, Deduct	-1,614.62	
			For Class 54 Rating, Add	1,100.88	
			For Class 55 Rating, Add	2,446.89	
40 05 19 00-1561	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,261.80	1,979.60
			For Class 52 Rating, Deduct	-1,678.86	
			For Class 54 Rating, Add	1,144.68	
			For Class 55 Rating, Add	2,544.24	
40 05 19 00-1562	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,854.15	1,981.94
			For Class 52 Rating, Deduct	-1,743.63	
			For Class 54 Rating, Add	1,188.84	
			For Class 55 Rating, Add	2,642.40	
40 05 19 00-1563	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,443.29	1,984.29
			For Class 52 Rating, Deduct	-1,808.05	
			For Class 54 Rating, Add	1,232.76	
			For Class 55 Rating, Add	2,740.01	
40 05 19 00-1564	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,030.84	1,986.62
			For Class 52 Rating, Deduct	-1,872.29	
			For Class 54 Rating, Add	1,276.56	
			For Class 55 Rating, Add	2,837.37	
40 05 19 00-1565	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,623.19	1,988.97
			For Class 52 Rating, Deduct	-1,937.06	
			For Class 54 Rating, Add	1,320.72	
			For Class 55 Rating, Add	2,935.52	
40 05 19 00-1566	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,211.53	1,991.31
			For Class 52 Rating, Deduct	-2,001.38	
			For Class 54 Rating, Add	1,364.58	
			For Class 55 Rating, Add	3,033.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,799.08	1,993.64
For Class 52 Rating, Deduct	-2,065.62	
For Class 54 Rating, Add	1,408.38	
For Class 55 Rating, Add	3,130.36	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,391.42	1,995.99
For Class 52 Rating, Deduct	-2,130.39	
For Class 54 Rating, Add	1,452.54	
For Class 55 Rating, Add	3,228.51	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,979.77	1,998.32
For Class 52 Rating, Deduct	-2,194.72	
For Class 54 Rating, Add	1,496.40	
For Class 55 Rating, Add	3,326.00	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,496.11	2,000.67
For Class 52 Rating, Deduct	-2,251.13	
For Class 54 Rating, Add	1,534.86	
For Class 55 Rating, Add	3,411.48	
40 05 19 00-1571 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,160.46	2,003.00
For Class 52 Rating, Deduct	-2,323.82	
For Class 54 Rating, Add	1,584.42	
For Class 55 Rating, Add	3,521.64	
40 05 19 00-1572 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,748.00	2,005.34
For Class 52 Rating, Deduct	-2,388.06	
For Class 54 Rating, Add	1,628.22	
For Class 55 Rating, Add	3,618.99	
40 05 19 00-1573 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,341.15	2,007.69
For Class 52 Rating, Deduct	-2,452.91	
For Class 54 Rating, Add	1,672.44	
For Class 55 Rating, Add	3,717.28	
40 05 19 00-1574 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,928.69	2,010.02
For Class 52 Rating, Deduct	-2,517.15	
For Class 54 Rating, Add	1,716.24	
For Class 55 Rating, Add	3,814.63	
40 05 19 00-1575 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,516.24	2,012.36
For Class 52 Rating, Deduct	-2,581.39	
For Class 54 Rating, Add	1,760.04	
For Class 55 Rating, Add	3,911.98	
40 05 19 00-1576 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,109.39	2,014.71
For Class 52 Rating, Deduct	-2,646.25	
For Class 54 Rating, Add	1,804.26	
For Class 55 Rating, Add	4,010.27	
40 05 19 00-1577 EA 48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,696.93	2,017.05
For Class 52 Rating, Deduct	-2,710.49	
For Class 54 Rating, Add	1,848.06	
For Class 55 Rating, Add	4,107.62	
40 05 19 00-1578 EA 48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,285.28	2,019.39
For Class 52 Rating, Deduct	-2,774.82	
For Class 54 Rating, Add	1,891.92	
For Class 55 Rating, Add	4,205.11	
40 05 19 00-1579 EA 48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,877.62	2,021.72
For Class 52 Rating, Deduct	-2,839.58	
For Class 54 Rating, Add	1,936.08	
For Class 55 Rating, Add	4,303.26	
40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1581 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	280.65	112.89
40 05 19 00-1582 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	388.34	144.36
40 05 19 00-1583 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	526.97	163.53
40 05 19 00-1584 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	757.31	207.32
40 05 19 00-1585 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	925.92	229.89
40 05 19 00-1586 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,138.38	249.73
40 05 19 00-1587 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,402.50	307.89
40 05 19 00-1588 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,825.40	369.46
40 05 19 00-1589 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,252.93	465.25
40 05 19 00-1590 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,350.24	526.83
40 05 19 00-1591 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	5,554.20	697.88
40 05 19 00-1592 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	7,788.54	790.25
40 05 19 00-1593 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	12,865.20	903.14
40 05 19 00-1594 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	17,089.80	1,108.40

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-0001)				
40 05 19 00-1596	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	268.65	112.89
40 05 19 00-1597	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	369.14	144.36
40 05 19 00-1598	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	478.17	163.53
40 05 19 00-1599	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	686.91	207.32
40 05 19 00-1600	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	836.32	229.89
40 05 19 00-1601	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	955.98	249.73
40 05 19 00-1602	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,200.90	307.89
40 05 19 00-1603	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,554.20	369.46
40 05 19 00-1604	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,005.73	465.25
40 05 19 00-1605	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,604.64	526.83
40 05 19 00-1606	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	5,008.60	697.88
40 05 19 00-1607	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	7,390.14	790.25
40 05 19 00-1608	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	11,152.40	903.14
40 05 19 00-1609	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	15,152.20	1,108.40
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-0001)				
40 05 19 00-1611	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	267.85	112.89
40 05 19 00-1612	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	362.74	144.36
40 05 19 00-1613	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	472.57	163.53
40 05 19 00-1614	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	670.91	207.32
40 05 19 00-1615	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	871.52	229.89
40 05 19 00-1616	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,067.18	249.73
40 05 19 00-1617	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,225.70	307.89
40 05 19 00-1618	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,584.60	369.46
40 05 19 00-1619	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,137.73	465.25
40 05 19 00-1620	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,905.44	526.83
40 05 19 00-1621	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,062.20	697.88
40 05 19 00-1622	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	7,513.34	790.25
40 05 19 00-1623	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	11,398.00	903.14
40 05 19 00-1624	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	15,472.20	1,108.40
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-0001)				
40 05 19 00-1626	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	287.85	112.89
40 05 19 00-1627	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	400.34	144.36
40 05 19 00-1628	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	488.57	163.53
40 05 19 00-1629	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	727.71	207.32
40 05 19 00-1630	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	976.32	229.89
40 05 19 00-1631	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,094.38	249.73
40 05 19 00-1632	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,339.30	307.89
40 05 19 00-1633	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,584.60	369.46
40 05 19 00-1634	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,137.73	465.25
40 05 19 00-1635	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,013.44	526.83
40 05 19 00-1636	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,115.80	697.88
40 05 19 00-1637	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	7,566.14	790.25
40 05 19 00-1638	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	11,454.00	903.14
40 05 19 00-1639	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	15,585.00	1,108.40
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-0001)				
40 05 19 00-1641	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	363.69	128.63
40 05 19 00-1642	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	439.81	138.20
40 05 19 00-1643	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	494.85	153.94
40 05 19 00-1644	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	640.98	160.10
40 05 19 00-1645	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	680.03	175.84
40 05 19 00-1646	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	740.14	185.42
40 05 19 00-1647	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	689.00	171.73
40 05 19 00-1648	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	773.64	187.47
40 05 19 00-1649	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	880.96	197.05
40 05 19 00-1650	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	942.93	218.94
40 05 19 00-1651	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	880.96	197.05
40 05 19 00-1652	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	970.67	206.63
40 05 19 00-1653	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,080.64	228.52
40 05 19 00-1654	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,190.27	240.16
40 05 19 00-1655	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,015.42	226.13
40 05 19 00-1656	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,091.53	235.71
40 05 19 00-1657	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,247.11	257.60
40 05 19 00-1658	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,355.41	268.89
40 05 19 00-1659	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,447.24	278.81
40 05 19 00-1660	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,184.47	256.91
40 05 19 00-1661	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,398.19	266.50
40 05 19 00-1662	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,446.56	288.39
40 05 19 00-1663	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	1,525.26	299.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,647.49	309.60
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,797.15	338.68
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,516.23	304.81
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,613.14	314.38
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,975.12	336.28
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,049.03	347.57
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,248.06	357.50
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,216.12	386.57
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,361.96	417.36
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,089.28	335.60
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,187.00	345.18
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,351.37	367.07
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,467.67	378.36
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,680.31	388.28
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,888.36	417.36
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,967.81	448.15
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,108.30	443.19
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,666.06	463.89
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,893.09	473.81
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,373.95	502.89
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,060.59	533.68
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,834.76	581.57
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,161.42	612.36
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,989.63	510.07
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,396.67	519.99
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,260.72	549.07
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,804.97	579.86
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,543.94	627.76
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,122.59	658.54
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,618.57	744.06
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,674.19	576.44
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,371.85	605.52
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,844.90	636.31
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,715.07	684.20
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,535.31	714.99
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,037.70	800.51
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,040.47	846.69
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,445.37	826.17
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,628.55	911.69
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	15,066.53	957.88
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	19,167.25	1,014.32
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	324.65	112.89
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	486.74	144.36
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	691.77	163.53
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	971.71	207.32
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,342.72	229.89
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,556.78	249.73
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,012.10	307.89
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,487.00	369.46
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,372.93	465.25
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,881.44	526.83
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,484.60	697.88
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	12,787.74	790.25
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	19,677.20	903.14
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	339.85	112.89
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	457.14	144.36
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	712.57	163.53
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	956.51	207.32
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,261.92	229.89
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,479.98	249.73
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,828.10	307.89
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,288.60	369.46
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,009.73	465.25
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,190.24	526.83
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	6,791.00	697.88
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	9,612.54	790.25
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	17,587.60	903.14
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	19,028.20	1,108.40
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	474.72	181.32

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1736 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	587.55	223.05
40 05 19 00-1737 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	794.15	249.05
40 05 19 00-1738 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,123.95	323.63
40 05 19 00-1739 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,456.52	353.05
40 05 19 00-1740 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	1,905.75	379.73
40 05 19 00-1741 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,182.47	478.94
40 05 19 00-1742 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	2,643.73	547.36
40 05 19 00-1743 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	3,335.03	691.04
40 05 19 00-1744 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	4,789.48	762.88
40 05 19 00-1745 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	8,034.06	1,053.67
40 05 19 00-1746 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	11,431.31	1,207.61
40 05 19 00-1747 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	23,114.00	1,395.76

40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees

(40 05 19 00-0001)

40 05 19 00-1749 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	582.86	202.52
40 05 19 00-1750 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	700.27	206.63
40 05 19 00-1751 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	712.46	232.63
40 05 19 00-1752 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	902.24	228.52
40 05 19 00-1753 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	904.84	254.52
40 05 19 00-1754 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	955.32	270.94
40 05 19 00-1755 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,119.87	240.16
40 05 19 00-1756 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,129.66	266.16
40 05 19 00-1757 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,193.75	282.57
40 05 19 00-1758 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,421.56	335.26
40 05 19 00-1759 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,583.98	249.73
40 05 19 00-1760 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,564.98	275.73
40 05 19 00-1761 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,636.26	292.15
40 05 19 00-1762 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,745.67	344.83
40 05 19 00-1763 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,849.95	362.97
40 05 19 00-1764 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,909.64	278.81
40 05 19 00-1765 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,782.63	304.81
40 05 19 00-1766 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,764.31	321.23
40 05 19 00-1767 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,068.94	373.91
40 05 19 00-1768 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,022.01	392.05
40 05 19 00-1769 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,241.00	408.81
40 05 19 00-1770 EA 18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,320.29	309.60
40 05 19 00-1771 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,798.08	335.60
40 05 19 00-1772 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,140.56	352.02
40 05 19 00-1773 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,173.19	404.70
40 05 19 00-1774 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,356.66	422.83
40 05 19 00-1775 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,562.06	439.60
40 05 19 00-1776 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,760.32	509.73
40 05 19 00-1777 EA 20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,970.46	357.50
40 05 19 00-1778 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,590.65	383.50
40 05 19 00-1779 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,648.33	399.91
40 05 19 00-1780 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,777.75	452.60
40 05 19 00-1781 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,886.82	470.73
40 05 19 00-1782 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,929.02	487.50
40 05 19 00-1783 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,512.88	557.62
40 05 19 00-1784 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,602.70	595.25
40 05 19 00-1785 EA 24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,371.51	388.28
40 05 19 00-1786 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,950.10	414.28
40 05 19 00-1787 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,082.98	430.70
40 05 19 00-1788 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,222.80	483.38
40 05 19 00-1789 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,592.67	501.52
40 05 19 00-1790 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,683.68	518.28
40 05 19 00-1791 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,833.13	588.41
40 05 19 00-1792 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,966.15	626.04
40 05 19 00-1793 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,147.20	668.98
40 05 19 00-1794 EA 30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,891.68	499.81
40 05 19 00-1795 EA 30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,933.37	516.23
40 05 19 00-1796 EA 30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,119.58	568.91
40 05 19 00-1797 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,147.05	587.04
40 05 19 00-1798 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,172.46	603.80
40 05 19 00-1799 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,331.51	673.94
40 05 19 00-1800 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,423.73	711.57
40 05 19 00-1801 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,656.06	807.35
40 05 19 00-1802 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,430.26	848.41
40 05 19 00-1803 EA 36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,139.83	715.33
40 05 19 00-1804 EA 36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,689.93	728.33
40 05 19 00-1805 EA 36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,764.03	765.62
40 05 19 00-1806 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,839.12	780.33
40 05 19 00-1807 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,876.93	793.67
40 05 19 00-1808 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,987.29	843.27
40 05 19 00-1809 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,056.72	877.49
40 05 19 00-1810 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,235.98	949.32
40 05 19 00-1811 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,449.60	985.24
40 05 19 00-1812 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,297.09	1,130.64
40 05 19 00-1813 EA 42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,237.66	618.86
40 05 19 00-1814 EA 42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,928.69	671.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,956.16	689.67
40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,999.95	706.43
40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,143.82	776.57
40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,295.23	814.20
40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,440.36	909.98
40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	13,652.97	951.04
40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,275.17	1,156.30
40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	22,086.44	1,264.05
40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,452.61	800.86
40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,478.02	817.62
40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,640.27	887.75
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,697.29	925.38
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,916.82	1,021.16
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	18,111.02	1,062.22
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	18,686.02	1,267.48
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	505.12	181.32
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	674.75	223.05
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	944.55	249.05
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,407.95	323.63
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,850.12	353.05
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,059.35	379.73
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	2,560.07	478.94
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	3,092.53	547.36
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	4,109.43	691.04
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	5,799.08	762.88
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	9,606.06	1,053.67
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	13,542.51	1,207.61
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	428.32	181.32
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	583.55	223.05
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	806.15	249.05
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,057.55	323.63
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,452.52	353.05
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,844.95	379.73
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	588.78	249.73
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	746.80	270.60
40 05 19 00-1853 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	798.77	301.73
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	891.14	275.05
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	977.29	311.31
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,018.13	334.57
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,122.72	296.95
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,239.26	333.20
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,351.30	356.46
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,676.18	439.94
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,415.02	308.23
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,500.36	344.50
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,613.20	367.76
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,953.28	451.23
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,865.52	476.20
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,760.19	354.42
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,872.24	377.68
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,105.91	461.15
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,282.15	486.13
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,393.92	509.73
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,080.25	383.50
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,206.70	406.76
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,440.37	490.23
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,631.81	515.20
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,578.77	538.80
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,019.23	649.99
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,173.30	414.28
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,298.94	437.54
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,502.22	521.01
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,692.86	545.99
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,064.63	569.60
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,371.48	680.78
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,530.87	725.25
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,792.26	462.17
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,925.91	485.44
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,117.98	568.91
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,320.62	593.88

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,389.19	617.49
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,117.65	728.67
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,283.43	773.14
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,732.33	916.83
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,629.32	492.97
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,729.37	516.23
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,971.03	599.70
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,108.07	624.68
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,193.44	648.27
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,477.10	759.46
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,714.08	803.94
40 05 19 00-1899 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,064.50	894.77
40 05 19 00-1900 EA 24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,683.93	998.93
40 05 19 00-1901 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,598.45	710.20
40 05 19 00-1902 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,651.83	733.80
40 05 19 00-1903 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,943.48	844.98
40 05 19 00-1904 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,046.06	889.45
40 05 19 00-1905 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,458.17	1,033.14
40 05 19 00-1906 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,564.71	1,084.46
40 05 19 00-1907 EA 30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,955.53	1,409.45
40 05 19 00-1908 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,271.32	903.49
40 05 19 00-1909 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,301.90	923.67
40 05 19 00-1910 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,546.45	1,014.32
40 05 19 00-1911 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,643.05	1,055.38
40 05 19 00-1912 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,983.67	1,175.11
40 05 19 00-1913 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,336.04	1,221.30
40 05 19 00-1914 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,894.55	1,486.42
40 05 19 00-1915 EA 36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	15,233.28	1,624.97
40 05 19 00-1916 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,425.16	812.83
40 05 19 00-1917 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,460.92	836.43
40 05 19 00-1918 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,742.18	947.61
40 05 19 00-1919 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	13,827.97	992.08
40 05 19 00-1920 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,215.26	1,135.77
40 05 19 00-1921 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	14,575.41	1,187.09
40 05 19 00-1922 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,755.03	1,512.08
40 05 19 00-1923 EA 42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	25,710.80	1,681.41
40 05 19 00-1924 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	19,381.99	1,888.39
40 05 19 00-1925 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	17,937.38	947.61
40 05 19 00-1926 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,219.44	1,058.79
40 05 19 00-1927 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,305.22	1,103.28
40 05 19 00-1928 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	18,673.33	1,246.95
40 05 19 00-1929 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	19,033.47	1,298.27
40 05 19 00-1930 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	20,033.89	1,623.26

40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers

(40 05 19 00-0001)

40 05 19 00-1932 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	311.69	128.63
40 05 19 00-1933 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	384.61	138.20
40 05 19 00-1934 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	424.45	153.94
40 05 19 00-1935 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	504.18	160.10
40 05 19 00-1936 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	516.03	175.84
40 05 19 00-1937 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	592.94	185.42
40 05 19 00-1938 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	627.40	171.73
40 05 19 00-1939 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	653.64	187.47
40 05 19 00-1940 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	712.16	197.05
40 05 19 00-1941 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	799.73	218.94
40 05 19 00-1942 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	940.04	187.47
40 05 19 00-1943 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	772.96	197.05
40 05 19 00-1944 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	849.07	206.63
40 05 19 00-1945 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	934.24	228.52
40 05 19 00-1946 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	917.47	240.16
40 05 19 00-1947 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,106.77	210.39
40 05 19 00-1948 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	925.02	226.13
40 05 19 00-1949 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	885.13	235.71
40 05 19 00-1950 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	983.91	257.60
40 05 19 00-1951 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,193.81	268.89
40 05 19 00-1952 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,279.24	278.81
40 05 19 00-1953 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,395.67	256.91
40 05 19 00-1954 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,138.19	266.50
40 05 19 00-1955 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,248.16	288.39
40 05 19 00-1956 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,246.86	299.68
40 05 19 00-1957 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,417.09	309.60
40 05 19 00-1958 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,429.95	338.68
40 05 19 00-1959 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,449.83	304.81
40 05 19 00-1960 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,415.54	314.38
40 05 19 00-1961 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,531.12	336.28
40 05 19 00-1962 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,502.63	347.57
40 05 19 00-1963 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,712.06	357.50
40 05 19 00-1964 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,632.92	386.57
40 05 19 00-1965 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,983.56	417.36



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,873.40	345.18
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,104.17	367.07
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,254.87	378.36
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,314.71	388.28
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,085.96	417.36
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,490.21	448.15
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,614.70	443.19
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,513.95	502.89
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,666.99	533.68
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,951.56	581.57
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,351.02	612.36
40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,731.12	549.07
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,971.37	579.86
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,291.14	627.76
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	5,744.19	658.54
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,614.57	744.06
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,932.91	714.99
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,964.90	800.51
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,107.67	846.69
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,038.97	826.17
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,259.75	911.69
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	12,552.93	957.88
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,031.25	1,014.32

40 05 19 00-1989

Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	333.29	128.63
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	409.41	138.20
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	463.65	153.94
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	504.18	160.10
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	542.43	175.84
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	617.74	185.42
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	627.40	171.73
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	682.44	187.47
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	742.56	197.05
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	852.53	218.94
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	772.96	197.05
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	833.87	206.63
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	928.64	228.52
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,052.67	240.16
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	925.02	226.13
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	999.53	235.71
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,109.51	257.60
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,218.61	268.89
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,279.24	278.81
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,138.19	266.50
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,248.16	288.39
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,357.26	299.68
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,417.09	309.60
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,553.15	338.68
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,621.03	304.81
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,497.94	314.38
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,531.12	336.28
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,663.43	347.57
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,712.06	357.50
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,869.72	386.57
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,982.76	417.36
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,038.20	345.18
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,104.17	367.07
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,154.07	378.36
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,201.91	388.28
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,361.96	417.36
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,490.21	448.15
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,614.70	443.19
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,141.09	473.81
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,061.15	502.89
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,684.59	533.68
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,951.56	581.57
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,351.02	612.36
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,766.32	549.07
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,971.37	579.86
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,273.54	627.76
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,724.99	658.54
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,596.97	744.06
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,932.91	714.99
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,804.90	800.51
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	10,107.67	846.69
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	11,259.75	911.69
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,552.93	957.88
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,031.25	1,014.32

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40)				
05 19 00-0001				
40 05 19 00-2045	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	117.78	44.47
40 05 19 00-2046	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	176.32	65.69
40 05 19 00-2047	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	246.98	78.00
40 05 19 00-2048	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	331.48	91.00
40 05 19 00-2049	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	422.52	106.73
40 05 19 00-2050	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	547.81	119.73
40 05 19 00-2051	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	651.34	136.84
40 05 19 00-2052	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	885.46	191.57
40 05 19 00-2053	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,168.43	239.47
40 05 19 00-2054	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,638.98	290.79
40 05 19 00-2055	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,274.75	338.68
40 05 19 00-2056	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,945.78	372.89
40 05 19 00-2057	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	5,505.20	410.52
40 05 19 00-2058	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,234.95	461.83
40 05 19 00-2059 Ductile Iron Bolt Packs (40 05 19)				
Note: Labor installation is included with pipe fittings or valves.				
40 05 19 00-2060	EA	4" Pipe Diameter, Ductile Iron Flange Bolt Pack	21.74	
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			6.09	
For Hot Dip Galvanized, Add			8.70	
40 05 19 00-2061	EA	6" Pipe Diameter, Ductile Iron Flange Bolt Pack	33.55	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			9.39	
For Hot Dip Galvanized, Add			13.42	
40 05 19 00-2062	EA	8" Pipe Diameter, Ductile Iron Flange Bolt Pack	36.43	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			10.20	
For Hot Dip Galvanized, Add			14.57	
40 05 19 00-2063	EA	10" Pipe Diameter, Ductile Iron Flange Bolt Pack	81.82	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			22.91	
For Hot Dip Galvanized, Add			32.73	
40 05 19 00-2064	EA	12" Pipe Diameter, Ductile Iron Flange Bolt Pack	82.54	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			23.11	
For Hot Dip Galvanized, Add			33.02	
40 05 19 00-2065	EA	14" Pipe Diameter, Ductile Iron Flange Bolt Pack	92.47	
Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			25.89	
For Hot Dip Galvanized, Add			36.99	
40 05 19 00-2066	EA	16" Pipe Diameter, Ductile Iron Flange Bolt Pack	155.46	
Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			43.53	
For Hot Dip Galvanized, Add			62.18	
40 05 19 00-2067	EA	18" Pipe Diameter, Ductile Iron Flange Bolt Pack	225.84	
Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			63.24	
For Hot Dip Galvanized, Add			90.34	
40 05 19 00-2068	EA	20" Pipe Diameter, Ductile Iron Flange Bolt Pack	285.15	
Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			79.84	
For Hot Dip Galvanized, Add			114.06	
40 05 19 00-2069	EA	24" Pipe Diameter, Ductile Iron Flange Bolt Pack	408.00	
Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			114.24	
For Hot Dip Galvanized, Add			163.20	
40 05 19 00-2070	EA	30" Pipe Diameter, Ductile Iron Flange Bolt Pack	644.70	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			180.52	
For Hot Dip Galvanized, Add			257.88	
40 05 19 00-2071	EA	36" Pipe Diameter, Ductile Iron Flange Bolt Pack	919.68	
Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			257.51	
For Hot Dip Galvanized, Add			367.87	
40 05 19 00-2072	EA	42" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,183.14	
Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			331.28	
For Hot Dip Galvanized, Add			473.26	
40 05 19 00-2073	EA	48" Pipe Diameter, Ductile Iron Flange Bolt Pack	1,446.06	
Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.				
For Zinc Plated, Add			404.90	
For Hot Dip Galvanized, Add			578.42	
40 05 19 00-2074 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 (40 05 19)				
Note: Labor installation is included with pipe fittings or valves.				
40 05 19 00-2075 Full Face Flange Styrene Butadiene (SBR) Gaskets (40 05 19 00-2074)				
40 05 19 00-2076	EA	4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick	5.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2077 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	7.45	
40 05 19 00-2078 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.11	
40 05 19 00-2079 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	11.71	
40 05 19 00-2080 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	12.77	
40 05 19 00-2081 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	21.28	
40 05 19 00-2082 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	26.07	
40 05 19 00-2083 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	27.67	
40 05 19 00-2084 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	42.57	
40 05 19 00-2085 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	45.76	
40 05 19 00-2086 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	59.06	
40 05 19 00-2087 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	67.58	
40 05 19 00-2088 EA 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	72.37	
40 05 19 00-2089 EA 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	79.28	
40 05 19 00-2090 Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)		
Note: (Acrylonitrile Butadiene)		
40 05 19 00-2091 EA 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	18.09	
40 05 19 00-2092 EA 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	25.54	
40 05 19 00-2093 EA 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	39.38	
40 05 19 00-2094 EA 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	43.10	
40 05 19 00-2095 EA 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	46.29	
40 05 19 00-2096 EA 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	87.26	
40 05 19 00-2097 EA 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	107.48	
40 05 19 00-2098 EA 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	108.02	
40 05 19 00-2099 EA 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	112.27	
40 05 19 00-2100 EA 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	118.66	
40 05 19 00-2101 EA 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	131.43	
40 05 19 00-2102 EA 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	144.73	
40 05 19 00-2103 EA 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	205.92	
40 05 19 00-2104 EA 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	225.08	
40 05 19 00-2105 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)		
40 05 19 00-2106 EA 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	15.96	
40 05 19 00-2107 EA 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	20.75	
40 05 19 00-2108 EA 8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	28.20	
40 05 19 00-2109 EA 10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	32.99	
40 05 19 00-2110 EA 12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	36.71	
40 05 19 00-2111 EA 14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	60.66	
40 05 19 00-2112 EA 16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	72.90	
40 05 19 00-2113 EA 18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	73.43	
40 05 19 00-2114 EA 20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	75.03	
40 05 19 00-2115 EA 24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	87.26	
40 05 19 00-2116 EA 30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	106.95	
40 05 19 00-2117 EA 36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	121.85	
40 05 19 00-2118 EA 42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	174.53	
40 05 19 00-2119 EA 48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	192.62	
40 05 19 00-2120 Full Face Flange Neoprene Gaskets (40 05 19 00-2074)		
Note: (Polychloroprene)		
40 05 19 00-2121 EA 4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	18.62	
40 05 19 00-2122 EA 6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	26.07	
40 05 19 00-2123 EA 8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	39.91	
40 05 19 00-2124 EA 10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	43.10	
40 05 19 00-2125 EA 12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	46.29	
40 05 19 00-2126 EA 14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	61.72	
40 05 19 00-2127 EA 16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	108.55	
40 05 19 00-2128 EA 18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	109.08	
40 05 19 00-2129 EA 20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	115.47	
40 05 19 00-2130 EA 24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	117.06	
40 05 19 00-2131 EA 30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	127.17	
40 05 19 00-2132 EA 36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	143.13	
40 05 19 00-2133 EA 42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	207.52	
40 05 19 00-2134 EA 48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	227.21	
40 05 19 00-2135 Full Face Flange FKM Gaskets (40 05 19 00-2074)		
Note: (Fluoroelastomer Fluorel Viton®)		
40 05 19 00-2136 EA 4" Full Face Flange FKM Gasket, 1/8" Thick.....	45.00	
40 05 19 00-2137 EA 6" Full Face Flange FKM Gasket, 1/8" Thick.....	67.00	
40 05 19 00-2138 EA 8" Full Face Flange FKM Gasket, 1/8" Thick.....	89.50	
40 05 19 00-2139 EA 10" Full Face Flange FKM Gasket, 1/8" Thick.....	108.00	
40 05 19 00-2140 EA 12" Full Face Flange FKM Gasket, 1/8" Thick.....	140.50	
40 05 19 00-2141 EA 14" Full Face Flange FKM Gasket, 1/8" Thick.....	257.00	
40 05 19 00-2142 EA 16" Full Face Flange FKM Gasket, 1/8" Thick.....	294.50	
40 05 19 00-2143 EA 18" Full Face Flange FKM Gasket, 1/8" Thick.....	308.50	
40 05 19 00-2144 EA 20" Full Face Flange FKM Gasket, 1/8" Thick.....	329.00	
40 05 19 00-2145 EA 24" Full Face Flange FKM Gasket, 1/8" Thick.....	455.00	
40 05 19 00-2146 EA 30" Full Face Flange FKM Gasket, 1/8" Thick.....	545.50	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2147 EA 36" Full Face Flange FKM Gasket, 1/8" Thick	575.50	
40 05 19 00-2148 EA 42" Full Face Flange FKM Gasket, 1/8" Thick	717.50	
40 05 19 00-2149 EA 48" Full Face Flange FKM Gasket, 1/8" Thick	752.00	
40 05 19 00-2150 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)		
40 05 19 00-2151 EA 4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	239.09	60.65
40 05 19 00-2152 EA 6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	325.05	74.05
40 05 19 00-2153 EA 8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	469.22	90.31
40 05 19 00-2154 EA 10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	635.98	110.17
40 05 19 00-2155 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	804.09	134.34
40 05 19 00-2156 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,259.83	163.91
40 05 19 00-2157 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,945.56	200.03
40 05 19 00-2158 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,032.17	243.98
40 05 19 00-2159 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,488.73	297.71
40 05 19 00-2160 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,792.63	363.13
40 05 19 00-2161 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,583.54	443.11
40 05 19 00-2162 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,254.37	540.51
40 05 19 00-2163 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	13,233.74	659.49
40 05 19 00-2164 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	16,880.33	804.53
40 05 23 Stainless Steel Process Pipe and Tubing (40 05)		
40 05 23 43 Stainless Steel Process Pipe (40 05 23)		
40 05 23 43-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)		
43) Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.		
40 05 23 43-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	27.94	9.13
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	2.49	
For Work In Restricted Working Space, Add	5.51	
40 05 23 43-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	31.85	10.47
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	2.61	
For Work In Restricted Working Space, Add	6.54	
40 05 23 43-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	37.06	11.81
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	3.06	
For Work In Restricted Working Space, Add	7.59	
40 05 23 43-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	42.07	14.26
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	3.86	
For Work In Restricted Working Space, Add	8.17	
40 05 23 43-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	46.20	14.67
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	4.42	
For Work In Restricted Working Space, Add	8.76	
40 05 23 43-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	55.92	19.38
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	5.39	
For Work In Restricted Working Space, Add	10.55	
40 05 23 43-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	79.24	23.90
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	9.27	
For Work In Restricted Working Space, Add	13.07	
40 05 23 43-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	99.75	27.70
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Type 316, Add	12.07	
For Work In Restricted Working Space, Add	15.99	
40 05 23 43-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	134.52	27.70
Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
For Work In Restricted Working Space, Add	20.29	
40 05 23 43-0011 Stainless Steel Tubing And Fittings (40 05 23 43)		
40 05 23 43-0012 Type 304 Tubing (40 05 23 43-0011)		
40 05 23 43-0013 0.035" Wall (40 05 23 43-0012)		
40 05 23 43-0014 LF 1/4" Stainless Steel Tubing, Type 304, 0.035" Wall	6.95	3.01
For Work In Restricted Working Space, Add	1.79	
40 05 23 43-0015 LF 3/8" Stainless Steel Tubing, Type 304, 0.035" Wall	8.19	3.57
For Work In Restricted Working Space, Add	2.15	
40 05 23 43-0016 LF 1/2" Stainless Steel Tubing, Type 304, 0.035" Wall	9.68	4.23
For Work In Restricted Working Space, Add	2.51	
40 05 23 43-0017 LF 5/8" Stainless Steel Tubing, Type 304, 0.035" Wall	13.53	4.79
For Work In Restricted Working Space, Add	2.87	
40 05 23 43-0018 LF 3/4" Stainless Steel Tubing, Type 304, 0.035" Wall	15.72	5.35
For Work In Restricted Working Space, Add	3.23	
40 05 23 43-0019 LF 7/8" Stainless Steel Tubing, Type 304, 0.035" Wall	17.43	6.02
For Work In Restricted Working Space, Add	3.59	
40 05 23 43-0020 LF 1" Stainless Steel Tubing, Type 304, 0.035" Wall	20.02	7.25
For Work In Restricted Working Space, Add	4.31	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0021 0.049" Wall (40 05 23 43-0012)		
40 05 23 43-0022 LF 1/4" Stainless Steel Tubing, Type 304, 0.049" Wall.....	10.05	3.57
For Work In Restricted Working Space, Add	2.15	
40 05 23 43-0023 LF 3/8" Stainless Steel Tubing, Type 304, 0.049" Wall.....	11.41	4.23
For Work In Restricted Working Space, Add	2.51	
40 05 23 43-0024 LF 1/2" Stainless Steel Tubing, Type 304, 0.049" Wall.....	13.44	4.79
For Work In Restricted Working Space, Add	2.87	
40 05 23 43-0025 LF 5/8" Stainless Steel Tubing, Type 304, 0.049" Wall.....	16.93	6.02
For Work In Restricted Working Space, Add	3.59	
40 05 23 43-0026 LF 3/4" Stainless Steel Tubing, Type 304, 0.049" Wall.....	19.74	7.25
For Work In Restricted Working Space, Add	4.31	
40 05 23 43-0027 LF 7/8" Stainless Steel Tubing, Type 304, 0.049" Wall.....	22.51	8.36
For Work In Restricted Working Space, Add	5.03	
40 05 23 43-0028 LF 1" Stainless Steel Tubing, Type 304, 0.049" Wall.....	25.82	9.48
For Work In Restricted Working Space, Add	5.72	
40 05 23 43-0029 0.065" Wall (40 05 23 43-0012)		
40 05 23 43-0030 LF 1/4" Stainless Steel Tubing, Type 304, 0.065" Wall.....	11.73	4.23
For Work In Restricted Working Space, Add	2.51	
40 05 23 43-0031 LF 3/8" Stainless Steel Tubing, Type 304, 0.065" Wall.....	13.46	4.79
For Work In Restricted Working Space, Add	2.87	
40 05 23 43-0032 LF 1/2" Stainless Steel Tubing, Type 304, 0.065" Wall.....	16.69	6.02
For Work In Restricted Working Space, Add	3.59	
40 05 23 43-0033 LF 5/8" Stainless Steel Tubing, Type 304, 0.065" Wall.....	19.78	7.25
For Work In Restricted Working Space, Add	4.31	
40 05 23 43-0034 LF 3/4" Stainless Steel Tubing, Type 304, 0.065" Wall.....	23.22	8.36
For Work In Restricted Working Space, Add	5.03	
40 05 23 43-0035 LF 7/8" Stainless Steel Tubing, Type 304, 0.065" Wall.....	26.57	9.48
For Work In Restricted Working Space, Add	5.72	
40 05 23 43-0036 LF 1" Stainless Steel Tubing, Type 304, 0.065" Wall.....	29.93	10.70
For Work In Restricted Working Space, Add	6.43	
40 05 23 43-0037 Type 304 Tube Fittings (40 05 23 43-0011)		
40 05 23 43-0038 90 Degree Elbows (40 05 23 43-0037)		
40 05 23 43-0039 EA 1/4" 90 Degree Elbow, Stainless Steel Type 304	36.20	12.04
For Work In Restricted Working Space, Add	7.19	
40 05 23 43-0040 EA 3/8" 90 Degree Elbow, Stainless Steel Type 304	41.64	13.15
For Work In Restricted Working Space, Add	7.87	
40 05 23 43-0041 EA 1/2" 90 Degree Elbow, Stainless Steel Type 304	57.36	14.83
For Work In Restricted Working Space, Add	8.92	
40 05 23 43-0042 EA 5/8" 90 Degree Elbow, Stainless Steel Type 304	62.11	16.61
For Work In Restricted Working Space, Add	9.98	
40 05 23 43-0043 EA 3/4" 90 Degree Elbow, Stainless Steel Type 304	68.78	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0044 EA 7/8" 90 Degree Elbow, Stainless Steel Type 304	88.84	19.95
For Work In Restricted Working Space, Add	11.94	
40 05 23 43-0045 EA 1" 90 Degree Elbow, Stainless Steel Type 304	111.35	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0046 Union Tees (40 05 23 43-0037)		
40 05 23 43-0047 EA 1/4" Union Tee, Stainless Steel Type 304	56.29	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0048 EA 3/8" Union Tee, Stainless Steel Type 304	66.19	19.95
For Work In Restricted Working Space, Add	11.94	
40 05 23 43-0049 EA 1/2" Union Tee, Stainless Steel Type 304	85.04	22.30
For Work In Restricted Working Space, Add	13.37	
40 05 23 43-0050 EA 5/8" Union Tee, Stainless Steel Type 304	92.98	25.30
For Work In Restricted Working Space, Add	15.20	
40 05 23 43-0051 EA 3/4" Union Tee, Stainless Steel Type 304	113.10	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0052 EA 7/8" Union Tee, Stainless Steel Type 304	165.36	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0053 EA 1" Union Tee, Stainless Steel Type 304	198.01	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0054 Unions (40 05 23 43-0037)		
40 05 23 43-0055 EA 1/4" Union, Stainless Steel Type 304.....	54.67	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0056 EA 3/8" Union, Stainless Steel Type 304.....	67.10	19.95
For Work In Restricted Working Space, Add	11.94	
40 05 23 43-0057 EA 1/2" Union, Stainless Steel Type 304.....	85.64	22.30
For Work In Restricted Working Space, Add	13.37	
40 05 23 43-0058 EA 5/8" Union, Stainless Steel Type 304.....	102.38	25.30
For Work In Restricted Working Space, Add	15.20	
40 05 23 43-0059 EA 3/4" Union, Stainless Steel Type 304.....	118.82	27.20
For Work In Restricted Working Space, Add	16.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0060 EA 7/8" Union, Stainless Steel Type 304.....	169.92	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0061 EA 1" Union, Stainless Steel Type 304.....	185.09	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0062 Male Connectors (40 05 23 43-0037)		
40 05 23 43-0063 EA 1/4" x 1/4" Male Connection, Stainless Steel Type 304.....	30.40	12.04
For Work In Restricted Working Space, Add	7.19	
40 05 23 43-0064 EA 3/8" x 3/8" Male Connection, Stainless Steel Type 304.....	35.95	13.15
For Work In Restricted Working Space, Add	7.87	
40 05 23 43-0065 EA 1/2" x 1/2" Male Connection, Stainless Steel Type 304.....	44.26	14.83
For Work In Restricted Working Space, Add	8.92	
40 05 23 43-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304.....	49.76	16.61
For Work In Restricted Working Space, Add	9.98	
40 05 23 43-0067 EA 3/4" x 3/4" Male Connection, Stainless Steel Type 304.....	57.81	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0068 EA 7/8" x 7/8" Male Connection, Stainless Steel Type 304.....	79.22	19.95
For Work In Restricted Working Space, Add	11.94	
40 05 23 43-0069 EA 1" x 1" Male Connection, Stainless Steel Type 304.....	86.10	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0070 Type 304 Valves (40 05 23 43-0011)		
40 05 23 43-0071 Gate Valves (40 05 23 43-0070)		
40 05 23 43-0072 EA 1/4" Gate Valve, Stainless Steel Type 304.....	164.48	17.94
For Work In Restricted Working Space, Add	9.74	
40 05 23 43-0073 EA 3/8" Gate Valve, Stainless Steel Type 304.....	272.22	21.07
For Work In Restricted Working Space, Add	10.25	
40 05 23 43-0074 EA 1/2" Gate Valve, Stainless Steel Type 304.....	285.48	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0075 EA 3/4" Gate Valve, Stainless Steel Type 304.....	316.90	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0076 EA 1" Gate Valve, Stainless Steel Type 304.....	296.18	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0077 Globe Valves (40 05 23 43-0070)		
40 05 23 43-0078 EA 1/4" Globe Valve, Stainless Steel Type 304.....	166.64	17.94
For Work In Restricted Working Space, Add	9.74	
40 05 23 43-0079 EA 3/8" Globe Valve, Stainless Steel Type 304.....	113.15	21.07
For Work In Restricted Working Space, Add	10.25	
40 05 23 43-0080 EA 1/2" Globe Valve, Stainless Steel Type 304.....	199.92	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0081 EA 3/4" Globe Valve, Stainless Steel Type 304.....	222.93	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0082 EA 1" Globe Valve, Stainless Steel Type 304.....	323.42	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0083 Check Valves (40 05 23 43-0070)		
40 05 23 43-0084 EA 1/4" Check Valve, Stainless Steel Type 304.....	230.20	17.94
For Work In Restricted Working Space, Add	9.74	
40 05 23 43-0085 EA 3/8" Check Valve, Stainless Steel Type 304.....	231.91	21.07
For Work In Restricted Working Space, Add	10.25	
40 05 23 43-0086 EA 1/2" Check Valve, Stainless Steel Type 304.....	157.96	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0087 EA 3/4" Check Valve, Stainless Steel Type 304.....	166.51	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0088 EA 1" Check Valve, Stainless Steel Type 304.....	187.25	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0089 Plug Valves (40 05 23 43-0070)		
40 05 23 43-0090 EA 1/2" Plug Valve, Stainless Steel Type 304.....	355.39	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0091 EA 3/4" Plug Valve, Stainless Steel Type 304.....	389.71	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0092 EA 1" Plug Valve, Stainless Steel Type 304.....	443.74	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304.....	611.86	40.68
For Work In Restricted Working Space, Add	24.41	
40 05 23 43-0094 EA 2" Plug Valve, Stainless Steel Type 304.....	798.08	55.73
For Work In Restricted Working Space, Add	33.44	
40 05 23 43-0095 Type 316 Tubing (40 05 23 43-0011)		
40 05 23 43-0096 0.035" Wall (40 05 23 43-0095)		
40 05 23 43-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall.....	7.10	3.01
For Work In Restricted Working Space, Add	1.79	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	8.91 2.15	3.57
40 05 23 43-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	10.12 2.51	4.23
40 05 23 43-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	14.69 2.87	4.79
40 05 23 43-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	16.63 3.23	5.35
40 05 23 43-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	20.22 3.59	6.02
40 05 23 43-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	22.18 4.31	7.25
40 05 23 43-0104 0.049" Wall (40 05 23 43-0095)		
40 05 23 43-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	10.67 2.15	3.57
40 05 23 43-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	12.06 2.51	4.23
40 05 23 43-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	14.05 2.87	4.79
40 05 23 43-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	18.07 3.59	6.02
40 05 23 43-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	21.15 4.31	7.25
40 05 23 43-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	26.14 5.03	8.36
40 05 23 43-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	27.72 5.72	9.48
40 05 23 43-0112 0.065" Wall (40 05 23 43-0095)		
40 05 23 43-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	12.48 2.51	4.23
40 05 23 43-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	14.03 2.87	4.79
40 05 23 43-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	17.59 3.59	6.02
40 05 23 43-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	21.02 4.31	7.25
40 05 23 43-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	25.11 5.03	8.36
40 05 23 43-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	27.97 5.72	9.48
40 05 23 43-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	32.18 6.43	10.70
40 05 23 43-0120 Type 316 Tube Fittings (40 05 23 43-0011)		
40 05 23 43-0121 90 Degree Elbows (40 05 23 43-0120)		
40 05 23 43-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	45.02 7.19	12.04
40 05 23 43-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	52.77 7.87	13.15
40 05 23 43-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	77.31 8.92	14.83
40 05 23 43-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	82.92 9.98	16.61
40 05 23 43-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	92.48 10.79	17.94
40 05 23 43-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	124.24 11.94	19.95
40 05 23 43-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316 For Work In Restricted Working Space, Add	157.49 14.23	23.74
40 05 23 43-0129 Union Tees (40 05 23 43-0120)		
40 05 23 43-0130 EA 1/4" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	70.97 10.79	17.94
40 05 23 43-0131 EA 3/8" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	85.23 11.94	19.95
40 05 23 43-0132 EA 1/2" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	114.26 13.37	22.30
40 05 23 43-0133 EA 5/8" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	123.54 15.20	25.30
40 05 23 43-0134 EA 3/4" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	155.51 16.31	27.20
40 05 23 43-0135 EA 7/8" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	241.24 18.08	30.10
40 05 23 43-0136 EA 1" Union Tee, Stainless Steel Type 316 For Work In Restricted Working Space, Add	289.06 21.57	36.01

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0137 Unions (40 05 23 43-0120)		
40 05 23 43-0138 EA 1/4" Union, Stainless Steel Type 316.....	52.43	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0139 EA 3/8" Union, Stainless Steel Type 316.....	63.84	19.95
For Work In Restricted Working Space, Add	11.94	
40 05 23 43-0140 EA 1/2" Union, Stainless Steel Type 316.....	80.73	22.30
For Work In Restricted Working Space, Add	13.37	
40 05 23 43-0141 EA 5/8" Union, Stainless Steel Type 316.....	96.19	25.30
For Work In Restricted Working Space, Add	15.20	
40 05 23 43-0142 EA 3/4" Union, Stainless Steel Type 316.....	111.12	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0143 EA 7/8" Union, Stainless Steel Type 316.....	156.81	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0144 EA 1" Union, Stainless Steel Type 316.....	171.56	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0145 Male Connectors (40 05 23 43-0120)		
40 05 23 43-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	34.95	12.04
For Work In Restricted Working Space, Add	7.19	
40 05 23 43-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	42.82	13.15
For Work In Restricted Working Space, Add	7.87	
40 05 23 43-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	54.55	14.83
For Work In Restricted Working Space, Add	8.92	
40 05 23 43-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	61.41	16.61
For Work In Restricted Working Space, Add	9.98	
40 05 23 43-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	73.26	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	107.08	19.95
For Work In Restricted Working Space, Add	11.94	
40 05 23 43-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316.....	113.44	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0153 Type 316 Valves (40 05 23 43-0011)		
40 05 23 43-0154 Gate Valves (40 05 23 43-0153)		
40 05 23 43-0155 EA 1/4" Gate Valve, Stainless Steel Type 316.....	207.10	17.94
For Work In Restricted Working Space, Add	9.74	
40 05 23 43-0156 EA 3/8" Gate Valve, Stainless Steel Type 316.....	349.08	21.07
For Work In Restricted Working Space, Add	10.25	
40 05 23 43-0157 EA 1/2" Gate Valve, Stainless Steel Type 316.....	362.34	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0158 EA 3/4" Gate Valve, Stainless Steel Type 316.....	401.66	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0159 EA 1" Gate Valve, Stainless Steel Type 316.....	368.59	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316.....	501.08	37.34
For Work In Restricted Working Space, Add	22.40	
40 05 23 43-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316.....	796.58	40.68
For Work In Restricted Working Space, Add	24.41	
40 05 23 43-0162 EA 2" Gate Valve, Stainless Steel Type 316.....	950.65	55.73
For Work In Restricted Working Space, Add	33.44	
40 05 23 43-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316.....	1,453.47	178.46
For Work In Restricted Working Space, Add	107.04	
40 05 23 43-0164 Globe Valves (40 05 23 43-0153)		
40 05 23 43-0165 EA 1/4" Globe Valve, Stainless Steel Type 316.....	209.96	17.94
For Work In Restricted Working Space, Add	9.74	
40 05 23 43-0166 EA 3/8" Globe Valve, Stainless Steel Type 316.....	138.65	21.07
For Work In Restricted Working Space, Add	10.25	
40 05 23 43-0167 EA 1/2" Globe Valve, Stainless Steel Type 316.....	249.15	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0168 EA 3/4" Globe Valve, Stainless Steel Type 316.....	277.35	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0169 EA 1" Globe Valve, Stainless Steel Type 316.....	404.62	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316.....	501.91	37.11
For Work In Restricted Working Space, Add	22.24	
40 05 23 43-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316.....	825.19	40.68
For Work In Restricted Working Space, Add	24.41	
40 05 23 43-0172 EA 2" Globe Valve, Stainless Steel Type 316.....	979.26	55.73
For Work In Restricted Working Space, Add	33.44	
40 05 23 43-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316.....	1,272.28	178.46
For Work In Restricted Working Space, Add	107.04	
40 05 23 43-0174 Check Valves (40 05 23 43-0153)		
40 05 23 43-0175 EA 1/4" Check Valve, Stainless Steel Type 316.....	294.05	17.94
For Work In Restricted Working Space, Add	9.74	
40 05 23 43-0176 EA 3/8" Check Valve, Stainless Steel Type 316.....	295.76	21.07
For Work In Restricted Working Space, Add	10.25	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0177 EA 1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	193.65 14.23	23.74
40 05 23 43-0178 EA 3/4" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	202.71 16.31	27.20
40 05 23 43-0179 EA 1" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	224.49 21.57	36.01
40 05 23 43-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	305.27 22.40	37.34
40 05 23 43-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	663.07 24.41	40.68
40 05 23 43-0182 EA 2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	807.61 33.44	55.73
40 05 23 43-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,628.31 107.04	178.46
40 05 23 43-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined (40 05 23 43-0153)		
40 05 23 43-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	318.53 14.23	23.74
40 05 23 43-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	371.89 16.31	27.20
40 05 23 43-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	474.84 21.57	36.01
40 05 23 43-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	749.82 24.41	40.68
40 05 23 43-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined..... <i>For Work In Restricted Working Space, Add</i>	1,047.30 33.44	55.73
40 05 23 43-0190 Diaphragm Valves, Teflon Lined (40 05 23 43-0153)		
40 05 23 43-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	418.80 14.23	23.74
40 05 23 43-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	481.44 16.31	27.20
40 05 23 43-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	584.40 21.57	36.01
40 05 23 43-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	903.93 24.41	40.68
40 05 23 43-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,231.13 33.44	55.73
40 05 23 43-0196 Strainers (40 05 23 43-0153)		
40 05 23 43-0197 EA 1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	419.76 14.23	23.74
40 05 23 43-0198 EA 3/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	501.92 16.39	27.31
40 05 23 43-0199 EA 1" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	656.92 21.74	36.23
40 05 23 43-0200 EA 1-1/4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	812.61 22.41	37.34
40 05 23 43-0201 EA 1-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,017.45 24.41	40.68
40 05 23 43-0202 EA 2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	1,466.11 33.44	55.73
40 05 23 43-0203 EA 2-1/2" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,013.83 44.48	74.13
40 05 23 43-0204 EA 3" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	2,934.13 66.88	111.46
40 05 23 43-0205 EA 4" Strainer, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	3,770.17 107.00	178.35
40 05 23 43-0206 Plug Valves (40 05 23 43-0153)		
40 05 23 43-0207 EA 1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	446.68 14.23	23.74
40 05 23 43-0208 EA 3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	489.10 16.31	27.20
40 05 23 43-0209 EA 1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	553.96 21.57	36.01
40 05 23 43-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	769.11 24.41	40.68
40 05 23 43-0211 EA 2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,001.61 33.44	55.73
40 05 23 43-0212 Cut And Prepare Existing Pipe In-Place (40 05 23 43-0011)		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 43-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe	22.29	
40 05 23 43-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe	24.07	
40 05 23 43-0215 EA Cut And Prepare 1" Stainless Steel Pipe	27.08	
40 05 23 43-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe	28.42	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe	30.09	
40 05 23 43-0218 EA Cut And Prepare 2" Stainless Steel Pipe	32.31	
40 05 23 43-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe	34.55	
40 05 23 43-0220 EA Cut And Prepare 3" Stainless Steel Pipe	37.89	
40 05 23 43-0221 EA Cut And Prepare 4" Stainless Steel Pipe	41.23	
40 05 23 43-0222 EA Cut And Prepare 6" Stainless Steel Pipe	44.57	
40 05 23 43-0223 EA Cut And Prepare 8" Stainless Steel Pipe	47.92	
40 05 23 43-0224 EA Cut And Prepare 10" Stainless Steel Pipe	52.38	
40 05 23 43-0225 EA Cut And Prepare 12" Stainless Steel Pipe	56.83	
40 05 23 43-0226 EA Cut And Prepare 14" Stainless Steel Pipe	61.28	
40 05 23 43-0227 EA Cut And Prepare 16" Stainless Steel Pipe	65.74	
40 05 23 43-0228 EA Cut And Prepare 18" Stainless Steel Pipe	69.09	
40 05 23 43-0229 EA Cut And Prepare 20" Stainless Steel Pipe	72.43	
40 05 23 43-0230 EA Cut And Prepare 24" Stainless Steel Pipe	76.89	
40 05 23 43-0231 Stainless Steel Pipe And Fittings (40 05 23 43)		
40 05 23 43-0232 Type 304, Schedule 40 Pipe And 150 LB Threaded Fittings (40 05 23 43-0231)		
40 05 23 43-0233 Pipe (40 05 23 43-0232)		
40 05 23 43-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	14.28	4.79
For Work In Restricted Working Space, Add	2.87	
40 05 23 43-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	17.64	6.02
For Work In Restricted Working Space, Add	3.59	
40 05 23 43-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	21.58	7.25
For Work In Restricted Working Space, Add	4.31	
40 05 23 43-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	25.75	8.36
For Work In Restricted Working Space, Add	5.03	
40 05 23 43-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	29.69	9.48
For Work In Restricted Working Space, Add	5.72	
40 05 23 43-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	37.81	12.04
For Work In Restricted Working Space, Add	7.19	
40 05 23 43-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	49.94	14.26
For Work In Restricted Working Space, Add	8.57	
40 05 23 43-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	62.79	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	84.58	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0243 90 Degree Elbows (40 05 23 43-0232)		
40 05 23 43-0244 EA 1/2" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	42.51	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0245 EA 3/4" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	54.87	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0246 EA 1" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	70.14	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0247 EA 1-1/4" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	97.41	41.24
For Work In Restricted Working Space, Add	24.77	
40 05 23 43-0248 EA 1-1/2" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	113.79	48.48
For Work In Restricted Working Space, Add	29.08	
40 05 23 43-0249 EA 2" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	141.69	58.64
For Work In Restricted Working Space, Add	35.20	
40 05 23 43-0250 EA 2-1/2" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	253.04	92.85
For Work In Restricted Working Space, Add	55.73	
40 05 23 43-0251 EA 3" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	324.65	119.82
For Work In Restricted Working Space, Add	71.91	
40 05 23 43-0252 EA 4" 90 Degree Elbow, Stainless Steel, Schedule 40 Type 304	463.75	148.58
For Work In Restricted Working Space, Add	89.17	
40 05 23 43-0253 45 Degree Elbows (40 05 23 43-0232)		
40 05 23 43-0254 EA 1/2" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	44.93	17.94
For Work In Restricted Working Space, Add	10.79	
40 05 23 43-0255 EA 3/4" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	57.15	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0256 EA 1" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	70.96	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0257 EA 1-1/4" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	96.43	41.24
For Work In Restricted Working Space, Add	24.77	
40 05 23 43-0258 EA 1-1/2" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	114.84	48.48
For Work In Restricted Working Space, Add	29.08	
40 05 23 43-0259 EA 2" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	142.66	58.64
For Work In Restricted Working Space, Add	35.20	
40 05 23 43-0260 EA 2-1/2" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	273.41	92.85
For Work In Restricted Working Space, Add	55.73	
40 05 23 43-0261 EA 3" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	363.56	119.82
For Work In Restricted Working Space, Add	71.91	
40 05 23 43-0262 EA 4" 45 Degree Elbow, Stainless Steel, Schedule 40 Type 304	521.20	148.58
For Work In Restricted Working Space, Add	89.17	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0263 Tees (40 05 23 43-0232)		
40 05 23 43-0264 EA 1/2" Tee, Stainless Steel, Schedule 40 Type 304.....	64.20	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0265 EA 3/4" Tee, Stainless Steel, Schedule 40 Type 304.....	82.40	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0266 EA 1" Tee, Stainless Steel, Schedule 40 Type 304.....	101.57	44.58
For Work In Restricted Working Space, Add	26.75	
40 05 23 43-0267 EA 1-1/4" Tee, Stainless Steel, Schedule 40 Type 304.....	144.12	61.97
For Work In Restricted Working Space, Add	37.16	
40 05 23 43-0268 EA 1-1/2" Tee, Stainless Steel, Schedule 40 Type 304.....	164.81	69.66
For Work In Restricted Working Space, Add	41.80	
40 05 23 43-0269 EA 2" Tee, Stainless Steel, Schedule 40 Type 304.....	216.54	92.85
For Work In Restricted Working Space, Add	55.73	
40 05 23 43-0270 EA 2-1/2" Tee, Stainless Steel, Schedule 40 Type 304.....	370.39	134.32
For Work In Restricted Working Space, Add	80.58	
40 05 23 43-0271 EA 3" Tee, Stainless Steel, Schedule 40 Type 304.....	514.47	179.80
For Work In Restricted Working Space, Add	107.87	
40 05 23 43-0272 EA 4" Tee, Stainless Steel, Schedule 40 Type 304.....	695.50	222.93
For Work In Restricted Working Space, Add	133.76	
40 05 23 43-0273 Reducers (40 05 23 43-0232)		
40 05 23 43-0274 EA 3/4" x 1/2" Reducer, Stainless Steel, Schedule 40 Type 304.....	53.60	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0275 EA 1" x 3/4" Reducer, Stainless Steel, Schedule 40 Type 304.....	69.37	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0276 EA 1-1/4" x 1" Reducer, Stainless Steel, Schedule 40 Type 304.....	101.24	41.24
For Work In Restricted Working Space, Add	24.77	
40 05 23 43-0277 EA 1-1/2" x 1-1/4" Reducer, Stainless Steel, Schedule 40 Type 304.....	117.52	48.48
For Work In Restricted Working Space, Add	29.08	
40 05 23 43-0278 EA 2" x 1-1/2" Reducer, Stainless Steel, Schedule 40 Type 304.....	149.44	58.64
For Work In Restricted Working Space, Add	35.20	
40 05 23 43-0279 EA 2-1/2" x 2" Reducer, Stainless Steel, Schedule 40 Type 304.....	253.24	92.85
For Work In Restricted Working Space, Add	55.73	
40 05 23 43-0280 EA 3" x 2-1/2" Reducer, Stainless Steel, Schedule 40 Type 304.....	311.88	119.82
For Work In Restricted Working Space, Add	71.91	
40 05 23 43-0281 EA 4" x 3" Reducer, Stainless Steel, Schedule 40 Type 304.....	438.10	148.58
For Work In Restricted Working Space, Add	89.17	
40 05 23 43-0282 EA 4" x 2" Reducer, Stainless Steel, Schedule 40 Type 304.....	376.18	136.54
For Work In Restricted Working Space, Add	81.93	
40 05 23 43-0283 Unions (40 05 23 43-0232)		
40 05 23 43-0284 EA 1/2" Union, Stainless Steel, Schedule 40 Type 304.....	68.03	27.20
For Work In Restricted Working Space, Add	16.31	
40 05 23 43-0285 EA 3/4" Union, Stainless Steel, Schedule 40 Type 304.....	90.63	36.01
For Work In Restricted Working Space, Add	21.57	
40 05 23 43-0286 EA 1" Union, Stainless Steel, Schedule 40 Type 304.....	116.35	44.58
For Work In Restricted Working Space, Add	26.75	
40 05 23 43-0287 EA 1-1/4" Union, Stainless Steel, Schedule 40 Type 304.....	173.80	61.97
For Work In Restricted Working Space, Add	37.16	
40 05 23 43-0288 EA 1-1/2" Union, Stainless Steel, Schedule 40 Type 304.....	198.05	69.66
For Work In Restricted Working Space, Add	41.80	
40 05 23 43-0289 EA 2" Union, Stainless Steel, Schedule 40 Type 304.....	259.90	92.85
For Work In Restricted Working Space, Add	55.73	
40 05 23 43-0290 Flanges (40 05 23 43-0232)		
40 05 23 43-0291 EA 2-1/2" Flange, Stainless Steel, Schedule 40 Type 304.....	245.57	92.85
For Work In Restricted Working Space, Add	55.73	
40 05 23 43-0292 EA 3" Flange, Stainless Steel, Schedule 40 Type 304.....	304.90	119.82
For Work In Restricted Working Space, Add	71.91	
40 05 23 43-0293 EA 4" Flange, Stainless Steel, Schedule 40 Type 304.....	390.91	148.58
For Work In Restricted Working Space, Add	89.17	
40 05 23 43-0294 Caps (40 05 23 43-0232)		
40 05 23 43-0295 EA 1/2" Caps, Stainless Steel, Schedule 40 Type 304.....	20.48	9.03
For Work In Restricted Working Space, Add	5.39	
40 05 23 43-0296 EA 3/4" Caps, Stainless Steel, Schedule 40 Type 304.....	27.63	12.04
For Work In Restricted Working Space, Add	7.19	
40 05 23 43-0297 EA 1" Caps, Stainless Steel, Schedule 40 Type 304.....	35.10	14.83
For Work In Restricted Working Space, Add	8.92	
40 05 23 43-0298 EA 1-1/4" Caps, Stainless Steel, Schedule 40 Type 304.....	56.15	21.07
For Work In Restricted Working Space, Add	12.62	
40 05 23 43-0299 EA 1-1/2" Caps, Stainless Steel, Schedule 40 Type 304.....	63.69	23.74
For Work In Restricted Working Space, Add	14.23	
40 05 23 43-0300 EA 2" Caps, Stainless Steel, Schedule 40 Type 304.....	80.88	30.10
For Work In Restricted Working Space, Add	18.08	
40 05 23 43-0301 EA 2-1/2" Caps, Stainless Steel, Schedule 40 Type 304.....	124.13	44.58
For Work In Restricted Working Space, Add	26.75	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0302 EA 3" Caps, Stainless Steel, Schedule 40 Type 304.....	165.66	58.64
For Work In Restricted Working Space, Add	35.20	
40 05 23 43-0303 EA 4" Caps, Stainless Steel, Schedule 40 Type 304.....	237.96	74.35
For Work In Restricted Working Space, Add	44.59	
40 05 23 43-0304 Additional Fittings (40 05 23 43-0232)		
40 05 23 43-0305 EA 1/2" Thread-O-Let, Stainless Steel, Schedule 40 Type 304.....	84.66	37.34
For Work In Restricted Working Space, Add	22.40	
40 05 23 43-0306 EA 3/4" Thread-O-Let, Stainless Steel, Schedule 40 Type 304.....	99.71	44.58
For Work In Restricted Working Space, Add	26.75	
40 05 23 43-0307 EA 1" Thread-O-Let, Stainless Steel, Schedule 40 Type 304.....	138.09	50.71
For Work In Restricted Working Space, Add	30.43	
40 05 23 43-0308 EA 1-1/4" Thread-O-Let, Stainless Steel, Schedule 40 Type 304.....	162.07	55.73
For Work In Restricted Working Space, Add	33.44	
40 05 23 43-0309 EA 1-1/2" Thread-O-Let, Stainless Steel, Schedule 40 Type 304.....	162.07	55.73
For Work In Restricted Working Space, Add	33.44	
40 05 23 43-0310 EA 2" Thread-O-Let, Stainless Steel, Schedule 40 Type 304.....	200.03	61.31
For Work In Restricted Working Space, Add	36.78	
40 05 23 43-0311 Type 304 Schedule 5 Pipe And Welded Butt Fittings (40 05 23 43-0231)		
40 05 23 43-0312 Pipe (40 05 23 43-0311)		
40 05 23 43-0313 LF 1/2" Pipe, Stainless Steel Schedule 5 Type 304 For Butt Weld Fitting.....	15.29	4.66
For Work In Restricted Working Space, Add	2.80	
40 05 23 43-0314 LF 3/4" Pipe, Stainless Steel Schedule 5 Type 304 For Butt Weld Fitting.....	18.26	5.70
For Work In Restricted Working Space, Add	3.42	
40 05 23 43-0315 LF 1" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	21.66	6.74
For Work In Restricted Working Space, Add	4.01	
40 05 23 43-0316 LF 1-1/4" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	26.18	8.39
For Work In Restricted Working Space, Add	5.02	
40 05 23 43-0317 LF 1-1/2" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	29.76	9.43
For Work In Restricted Working Space, Add	5.66	
40 05 23 43-0318 LF 2" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	37.03	11.71
For Work In Restricted Working Space, Add	7.01	
40 05 23 43-0319 LF 2-1/2" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	45.72	13.37
For Work In Restricted Working Space, Add	8.00	
40 05 23 43-0320 LF 3" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	52.99	15.03
For Work In Restricted Working Space, Add	9.01	
40 05 23 43-0321 LF 4" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	64.89	17.83
For Work In Restricted Working Space, Add	10.67	
40 05 23 43-0322 LF 6" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	101.07	23.43
For Work In Restricted Working Space, Add	14.01	
40 05 23 43-0323 LF 8" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	164.89	38.10
For Work In Restricted Working Space, Add	24.49	
40 05 23 43-0324 LF 10" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	207.05	41.90
For Work In Restricted Working Space, Add	26.93	
40 05 23 43-0325 LF 12" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	235.89	46.58
For Work In Restricted Working Space, Add	29.93	
40 05 23 43-0326 LF 14" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	287.08	52.37
For Work In Restricted Working Space, Add	33.67	
40 05 23 43-0327 LF 16" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	317.50	59.85
For Work In Restricted Working Space, Add	38.48	
40 05 23 43-0328 LF 18" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	357.50	69.83
For Work In Restricted Working Space, Add	44.89	
40 05 23 43-0329 LF 20" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	471.73	83.79
For Work In Restricted Working Space, Add	53.87	
40 05 23 43-0330 LF 24" Pipe, Stainless Steel Schedule 5 Type 304 For Welded Butt Fitting.....	611.92	104.74
For Work In Restricted Working Space, Add	67.33	
40 05 23 43-0331 90 Degree Elbows (40 05 23 43-0311)		
40 05 23 43-0332 EA 1/2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	131.70	59.08
For Work In Restricted Working Space, Add	35.45	
40 05 23 43-0333 EA 3/4" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	139.66	62.71
For Work In Restricted Working Space, Add	37.62	
40 05 23 43-0334 EA 1" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	153.33	68.92
For Work In Restricted Working Space, Add	41.35	
40 05 23 43-0335 EA 1-1/4" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	175.09	75.15
For Work In Restricted Working Space, Add	45.09	
40 05 23 43-0336 EA 1-1/2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	185.16	82.92
For Work In Restricted Working Space, Add	49.70	
40 05 23 43-0337 EA 2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	210.68	92.25
For Work In Restricted Working Space, Add	55.37	
40 05 23 43-0338 EA 2-1/2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	273.18	118.17
For Work In Restricted Working Space, Add	70.80	
40 05 23 43-0339 EA 3" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	323.17	138.37
For Work In Restricted Working Space, Add	82.88	
40 05 23 43-0340 EA 4" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	417.69	165.85
For Work In Restricted Working Space, Add	99.28	
40 05 23 43-0341 EA 6" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304.....	661.82	207.30
For Work In Restricted Working Space, Add	124.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0342 EA 8" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,062.64 192.38	299.26
40 05 23 43-0343 EA 10" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,722.56 256.51	399.01
40 05 23 43-0344 EA 12" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,654.65 384.76	598.52
40 05 23 43-0345 EA 14" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	3,348.21 448.89	698.27
40 05 23 43-0346 EA 16" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	4,121.71 512.04	798.02
40 05 23 43-0347 EA 18" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	5,242.97 641.27	997.53
40 05 23 43-0348 EA 20" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	8,481.03 897.78	1,396.55
40 05 23 43-0349 EA 24" 90 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	11,799.62 1,282.54	1,995.07
40 05 23 43-0350 45 Degree Elbows (40 05 23 43-0311)		
40 05 23 43-0351 EA 1/2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	137.64 35.45	59.08
40 05 23 43-0352 EA 3/4" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	144.89 37.62	62.71
40 05 23 43-0353 EA 1" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	159.79 41.35	68.92
40 05 23 43-0354 EA 1-1/4" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	187.40 45.07	75.15
40 05 23 43-0355 EA 1-1/2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	185.82 49.77	82.92
40 05 23 43-0356 EA 2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	207.49 55.37	92.25
40 05 23 43-0357 EA 2-1/2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	274.27 70.86	118.17
40 05 23 43-0358 EA 3" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	315.79 83.05	138.37
40 05 23 43-0359 EA 4" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	400.42 99.41	165.85
40 05 23 43-0360 EA 6" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	563.33 124.38	207.30
40 05 23 43-0361 EA 8" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	901.53 192.38	299.26
40 05 23 43-0362 EA 10" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,439.28 256.51	399.01
40 05 23 43-0363 EA 12" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,212.03 384.76	598.52
40 05 23 43-0364 EA 14" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,728.54 448.89	698.27
40 05 23 43-0365 EA 16" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	3,326.78 512.04	798.02
40 05 23 43-0366 EA 18" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	4,501.14 641.27	997.53
40 05 23 43-0367 EA 20" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	7,516.13 897.78	1,396.55
40 05 23 43-0368 EA 24" 45 Degree Elbow, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	10,232.75 1,282.54	1,995.07
40 05 23 43-0369 Tees (40 05 23 43-0311)		
40 05 23 43-0370 EA 1/2" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	205.06 45.05	75.15
40 05 23 43-0371 EA 3/4" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	239.24 55.31	92.25
40 05 23 43-0372 EA 1" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	259.37 62.14	103.65
40 05 23 43-0373 EA 1-1/4" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	325.62 70.86	118.17
40 05 23 43-0374 EA 1-1/2" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	305.77 76.06	126.98
40 05 23 43-0375 EA 2" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	331.43 82.97	138.37
40 05 23 43-0376 EA 2-1/2" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	487.17 99.41	165.85
40 05 23 43-0377 EA 3" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	517.07 124.58	207.30
40 05 23 43-0378 EA 4" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	609.46 139.82	233.22
40 05 23 43-0379 EA 6" Tees, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,055.17 186.42	310.96
40 05 23 43-0380 EA 8" Tee, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,846.49 256.51	399.01
40 05 23 43-0381 EA 10" Tee, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,840.55 384.76	598.52
40 05 23 43-0382 EA 12" Tee, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	3,594.94 480.95	748.15

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0383 EA 14" Tee, Stainless Steel Schedule 5 Type 304	4,534.45	897.78
For Work In Restricted Working Space, Add	577.97	
40 05 23 43-0384 EA 16" Tee, Stainless Steel Schedule 5 Type 304	5,133.38	1,097.28
For Work In Restricted Working Space, Add	705.06	
40 05 23 43-0385 EA 18" Tee, Stainless Steel Schedule 5 Type 304	6,312.21	1,396.55
For Work In Restricted Working Space, Add	897.78	
40 05 23 43-0386 EA 20" Tee, Stainless Steel Schedule 5 Type 304	9,390.66	1,845.43
For Work In Restricted Working Space, Add	1,181.29	
40 05 23 43-0387 EA 24" Tee, Stainless Steel Schedule 5 Type 304	14,382.51	2,793.09
For Work In Restricted Working Space, Add	1,795.56	
40 05 23 43-0388 Reducers (40 05 23 43-0311)		
40 05 23 43-0389 EA 3/4" Reducer, Stainless Steel Schedule 5 Type 304	140.44	57.01
For Work In Restricted Working Space, Add	34.23	
40 05 23 43-0390 EA 1" Reducer, Stainless Steel Schedule 5 Type 304	154.76	62.19
For Work In Restricted Working Space, Add	37.30	
40 05 23 43-0391 EA 1-1/4" Reducer, Stainless Steel Schedule 5 Type 304	185.33	68.92
For Work In Restricted Working Space, Add	41.35	
40 05 23 43-0392 EA 1-1/2" Reducer, Stainless Steel Schedule 5 Type 304	170.56	75.15
For Work In Restricted Working Space, Add	45.07	
40 05 23 43-0393 EA 2" Reducer, Stainless Steel Schedule 5 Type 304	187.93	82.92
For Work In Restricted Working Space, Add	49.77	
40 05 23 43-0394 EA 2-1/2" Reducer, Stainless Steel Schedule 5 Type 304	240.69	103.65
For Work In Restricted Working Space, Add	62.19	
40 05 23 43-0395 EA 3" Reducer, Stainless Steel Schedule 5 Type 304	269.05	118.17
For Work In Restricted Working Space, Add	70.80	
40 05 23 43-0396 EA 4" Reducer, Stainless Steel Schedule 5 Type 304	313.83	138.37
For Work In Restricted Working Space, Add	82.97	
40 05 23 43-0397 EA 6" Reducer, Stainless Steel Schedule 5 Type 304	402.91	176.21
For Work In Restricted Working Space, Add	105.62	
40 05 23 43-0398 EA 8" Reducer, Stainless Steel Schedule 5 Type 304	746.05	239.41
For Work In Restricted Working Space, Add	153.91	
40 05 23 43-0399 EA 10" Reducer, Stainless Steel Schedule 5 Type 304	965.38	299.26
For Work In Restricted Working Space, Add	192.38	
40 05 23 43-0400 EA 12" Reducer, Stainless Steel Schedule 5 Type 304	1,284.14	399.01
For Work In Restricted Working Space, Add	256.51	
40 05 23 43-0401 EA 14" Reducer, Stainless Steel Schedule 5 Type 304	1,700.97	523.70
For Work In Restricted Working Space, Add	336.67	
40 05 23 43-0402 EA 16" Reducer, Stainless Steel Schedule 5 Type 304	2,000.25	598.52
For Work In Restricted Working Space, Add	383.67	
40 05 23 43-0403 EA 18" Reducer, Stainless Steel Schedule 5 Type 304	2,491.73	748.15
For Work In Restricted Working Space, Add	480.95	
40 05 23 43-0404 EA 20" Reducer, Stainless Steel Schedule 5 Type 304	3,676.02	997.53
For Work In Restricted Working Space, Add	641.27	
40 05 23 43-0405 EA 24" Reducer, Stainless Steel Schedule 5 Type 304	5,713.84	1,496.30
For Work In Restricted Working Space, Add	961.91	
40 05 23 43-0406 Weld Neck Flanges (40 05 23 43-0311)		
40 05 23 43-0407 EA 1/2" Flanges, Stainless Steel Schedule 5 Type 304	74.50	23.84
For Work In Restricted Working Space, Add	14.31	
40 05 23 43-0408 EA 3/4" Flanges, Stainless Steel Schedule 5 Type 304	78.64	25.92
For Work In Restricted Working Space, Add	15.55	
40 05 23 43-0409 EA 1" Flanges, Stainless Steel Schedule 5 Type 304	96.28	34.73
For Work In Restricted Working Space, Add	20.84	
40 05 23 43-0410 EA 1-1/4" Flanges, Stainless Steel Schedule 5 Type 304	105.61	36.28
For Work In Restricted Working Space, Add	21.76	
40 05 23 43-0411 EA 1-1/2" Flanges, Stainless Steel Schedule 5 Type 304	122.24	41.46
For Work In Restricted Working Space, Add	24.88	
40 05 23 43-0412 EA 2" Flanges, Stainless Steel Schedule 5 Type 304	144.15	46.64
For Work In Restricted Working Space, Add	27.96	
40 05 23 43-0413 EA 2-1/2" Flanges, Stainless Steel Schedule 5 Type 304	193.34	59.60
For Work In Restricted Working Space, Add	35.76	
40 05 23 43-0414 EA 3" Flanges, Stainless Steel Schedule 5 Type 304	215.52	68.92
For Work In Restricted Working Space, Add	41.33	
40 05 23 43-0415 EA 4" Flanges, Stainless Steel Schedule 5 Type 304	294.68	93.29
For Work In Restricted Working Space, Add	55.97	
40 05 23 43-0416 EA 6" Flanges, Stainless Steel Schedule 5 Type 304	444.53	138.37
For Work In Restricted Working Space, Add	82.97	
40 05 23 43-0417 EA 8" Flange, Stainless Steel Schedule 5 Type 304	741.84	149.63
For Work In Restricted Working Space, Add	96.19	
40 05 23 43-0418 EA 10" Flange, Stainless Steel Schedule 5 Type 304	1,103.57	174.57
For Work In Restricted Working Space, Add	112.22	
40 05 23 43-0419 EA 12" Flange, Stainless Steel Schedule 5 Type 304	1,504.68	199.51
For Work In Restricted Working Space, Add	128.25	
40 05 23 43-0420 EA 14" Flange, Stainless Steel Schedule 5 Type 304	1,986.87	249.39
For Work In Restricted Working Space, Add	160.32	
40 05 23 43-0421 EA 16" Flange, Stainless Steel Schedule 5 Type 304	2,638.43	299.26
For Work In Restricted Working Space, Add	192.38	
40 05 23 43-0422 EA 18" Flange, Stainless Steel Schedule 5 Type 304	2,762.78	349.14
For Work In Restricted Working Space, Add	224.45	
40 05 23 43-0423 EA 20" Flange, Stainless Steel Schedule 5 Type 304	3,776.28	423.95
For Work In Restricted Working Space, Add	272.60	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
40 05 23 43-0424	EA 24" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	8,241.34 352.53		548.65	
40 05 23 43-0425 Slip-On Flanges (40 05 23 43-0311)					
40 05 23 43-0426	EA 1/2" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	131.58 31.10		51.82	
40 05 23 43-0427	EA 3/4" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	135.34 31.10		51.82	
40 05 23 43-0428	EA 1" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	161.48 38.26		63.74	
40 05 23 43-0429	EA 1-1/4" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	177.16 41.35		68.92	
40 05 23 43-0430	EA 1-1/2" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	196.94 45.41		75.67	
40 05 23 43-0431	EA 2" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	226.44 49.70		82.92	
40 05 23 43-0432	EA 2-1/2" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	274.12 55.97		93.29	
40 05 23 43-0433	EA 3" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	300.97 62.14		103.65	
40 05 23 43-0434	EA 4" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	409.10 83.32		138.89	
40 05 23 43-0435	EA 6" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	617.68 124.19		207.30	
40 05 23 43-0436	EA 8" Flange, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	1,591.07 192.38		299.26	
40 05 23 43-0437 Caps (40 05 23 43-0311)					
40 05 23 43-0438	EA 1/2" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	65.50 14.31		23.84	
40 05 23 43-0439	EA 3/4" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	72.11 15.55		25.92	
40 05 23 43-0440	EA 1" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	91.54 20.53		34.21	
40 05 23 43-0441	EA 1-1/4" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	98.42 21.76		36.28	
40 05 23 43-0442	EA 1-1/2" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	110.65 24.88		41.46	
40 05 23 43-0443	EA 2" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	121.86 27.96		46.64	
40 05 23 43-0444	EA 2-1/2" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	152.47 35.76		59.60	
40 05 23 43-0445	EA 3" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	174.75 41.33		68.92	
40 05 23 43-0446	EA 4" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	249.14 55.33		92.25	
40 05 23 43-0447	EA 6" Cap, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	343.10 82.97		138.37	
40 05 23 43-0448 Reducing Tees (40 05 23 43-0311)					
40 05 23 43-0449	EA 3/4" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	174.87 37.64		75.15	
40 05 23 43-0450	EA 1" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	203.16 46.13		92.25	
40 05 23 43-0451	EA 1-1/4" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	238.89 51.83		103.65	
40 05 23 43-0452	EA 1-1/2" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	244.85 59.08		118.17	
40 05 23 43-0453	EA 2" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	265.78 63.49		126.98	
40 05 23 43-0454	EA 2-1/2" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	366.01 69.19		138.37	
40 05 23 43-0455	EA 3" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	370.16 82.93		165.85	
40 05 23 43-0456	EA 4" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	480.89 103.65		207.30	
40 05 23 43-0457	EA 6" Reducing Tees, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	800.94 118.43		236.84	
40 05 23 43-0458	EA 8" Reducing Tee, Stainless Steel Schedule 5 Type 304L For Work In Restricted Working Space, Add	1,384.73 160.32		299.26	
40 05 23 43-0459	EA 10" Reducing Tee, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	2,191.38 213.76		399.01	
40 05 23 43-0460	EA 12" Reducing Tee, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	2,960.05 320.63		598.52	
40 05 23 43-0461	EA 14" Reducing Tee, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	3,752.25 385.20		719.22	
40 05 23 43-0462	EA 16" Reducing Tee, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	4,209.46 469.88		877.33	
40 05 23 43-0463	EA 18" Reducing Tee, Stainless Steel Schedule 5 Type 304 For Work In Restricted Working Space, Add	5,150.66 598.52		1,117.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0464 EA 20" Reducing Tee, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	7,801.10 787.53	1,469.87
40 05 23 43-0465 EA 24" Reducing Tee, Stainless Steel Schedule 5 Type 304..... <i>For Work In Restricted Working Space, Add</i>	11,962.01 1,195.98	2,233.47
40 05 23 43-0466 Type 304 Schedule 10 Pipe And Welded Butt Fittings (40 05 23 43-0231)		
40 05 23 43-0467 Pipe (40 05 23 43-0466)		
40 05 23 43-0468 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	15.43 2.80	4.66
40 05 23 43-0469 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	18.47 3.42	5.70
40 05 23 43-0470 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	23.89 4.01	6.74
40 05 23 43-0471 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	29.30 5.02	8.39
40 05 23 43-0472 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	32.68 5.66	9.43
40 05 23 43-0473 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	40.43 7.01	11.71
40 05 23 43-0474 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	47.93 8.00	13.37
40 05 23 43-0475 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	56.08 9.01	15.03
40 05 23 43-0476 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	69.72 10.67	17.83
40 05 23 43-0477 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	100.01 14.01	23.43
40 05 23 43-0478 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	163.27 24.49	38.10
40 05 23 43-0479 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	204.76 26.93	41.90
40 05 23 43-0480 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	243.05 29.93	46.58
40 05 23 43-0481 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	296.29 33.67	52.37
40 05 23 43-0482 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	327.46 38.48	59.85
40 05 23 43-0483 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	368.44 44.89	69.83
40 05 23 43-0484 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	504.18 53.87	83.79
40 05 23 43-0485 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	654.98 67.33	104.74
40 05 23 43-0486 90 Degree Elbows (40 05 23 43-0466)		
40 05 23 43-0487 EA 1/2" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	129.04 35.45	59.08
40 05 23 43-0488 EA 3/4" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	136.29 37.62	62.71
40 05 23 43-0489 EA 1" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	148.73 41.36	68.92
40 05 23 43-0490 EA 1-1/4" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	166.18 45.11	75.15
40 05 23 43-0491 EA 1-1/2" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	185.95 49.71	82.92
40 05 23 43-0492 EA 2" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	205.85 55.38	92.25
40 05 23 43-0493 EA 2-1/2" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	266.16 70.82	118.17
40 05 23 43-0494 EA 3" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	314.32 82.91	138.37
40 05 23 43-0495 EA 4" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	401.99 99.35	165.85
40 05 23 43-0496 EA 6" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	616.12 124.12	207.30
40 05 23 43-0497 EA 8" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,103.03 192.38	299.26
40 05 23 43-0498 EA 10" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,711.66 256.51	399.01
40 05 23 43-0499 EA 12" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,626.40 384.76	598.52
40 05 23 43-0500 EA 14" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	3,313.70 448.89	698.27
40 05 23 43-0501 EA 16" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	4,076.13 512.04	798.02
40 05 23 43-0502 EA 18" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	5,180.85 641.27	997.53
40 05 23 43-0503 EA 20" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	8,383.72 897.78	1,396.55
40 05 23 43-0504 EA 24" 90 Degree Elbow, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	11,656.90 1,282.54	1,995.07



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
40 05 23 43-0505 45 Degree Elbows (40 05 23 43-0466)					
40 05 23 43-0506	EA 1/2" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	133.50		59.08	
	For Work In Restricted Working Space, Add	35.45			
40 05 23 43-0507	EA 3/4" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	140.75		62.71	
	For Work In Restricted Working Space, Add	37.62			
40 05 23 43-0508	EA 1" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	153.19		68.92	
	For Work In Restricted Working Space, Add	41.36			
40 05 23 43-0509	EA 1-1/4" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304	167.40		75.15	
	For Work In Restricted Working Space, Add	45.07			
40 05 23 43-0510	EA 1-1/2" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304	183.45		82.92	
	For Work In Restricted Working Space, Add	49.77			
40 05 23 43-0511	EA 2" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	213.78		92.25	
	For Work In Restricted Working Space, Add	55.38			
40 05 23 43-0512	EA 2-1/2" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304	265.65		118.17	
	For Work In Restricted Working Space, Add	70.87			
40 05 23 43-0513	EA 3" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	307.38		138.37	
	For Work In Restricted Working Space, Add	83.02			
40 05 23 43-0514	EA 4" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	385.39		165.85	
	For Work In Restricted Working Space, Add	99.44			
40 05 23 43-0515	EA 6" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	529.85		207.30	
	For Work In Restricted Working Space, Add	124.38			
40 05 23 43-0516	EA 8" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	993.95		299.26	
	For Work In Restricted Working Space, Add	192.38			
40 05 23 43-0517	EA 10" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	1,436.01		399.01	
	For Work In Restricted Working Space, Add	256.51			
40 05 23 43-0518	EA 12" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	2,209.25		598.52	
	For Work In Restricted Working Space, Add	384.76			
40 05 23 43-0519	EA 14" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	2,724.89		698.27	
	For Work In Restricted Working Space, Add	448.89			
40 05 23 43-0520	EA 16" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	3,321.51		798.02	
	For Work In Restricted Working Space, Add	512.04			
40 05 23 43-0521	EA 18" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	4,494.22		997.53	
	For Work In Restricted Working Space, Add	641.27			
40 05 23 43-0522	EA 20" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	7,506.76		1,396.55	
	For Work In Restricted Working Space, Add	897.78			
40 05 23 43-0523	EA 24" 45 Degree Elbow, Stainless Steel Schedule 10 Type 304.....	10,213.26		1,995.07	
	For Work In Restricted Working Space, Add	1,282.54			
40 05 23 43-0524 Tees (40 05 23 43-0466)					
40 05 23 43-0525	EA 1/2" Tees, Stainless Steel Schedule 10 Type 304	186.67		75.15	
	For Work In Restricted Working Space, Add	45.05			
40 05 23 43-0526	EA 3/4" Tees, Stainless Steel Schedule 10 Type 304	220.85		92.25	
	For Work In Restricted Working Space, Add	55.31			
40 05 23 43-0527	EA 1" Tees, Stainless Steel Schedule 10 Type 304	243.63		103.65	
	For Work In Restricted Working Space, Add	62.14			
40 05 23 43-0528	EA 1-1/4" Tees, Stainless Steel Schedule 10 Type 304	276.46		118.17	
	For Work In Restricted Working Space, Add	70.90			
40 05 23 43-0529	EA 1-1/2" Tees, Stainless Steel Schedule 10 Type 304	295.00		126.98	
	For Work In Restricted Working Space, Add	76.10			
40 05 23 43-0530	EA 2" Tees, Stainless Steel Schedule 10 Type 304	341.04		138.37	
	For Work In Restricted Working Space, Add	82.97			
40 05 23 43-0531	EA 2-1/2" Tees, Stainless Steel Schedule 10 Type 304	410.51		165.85	
	For Work In Restricted Working Space, Add	99.44			
40 05 23 43-0532	EA 3" Tees, Stainless Steel Schedule 10 Type 304	527.03		207.30	
	For Work In Restricted Working Space, Add	124.54			
40 05 23 43-0533	EA 4" Tees, Stainless Steel Schedule 10 Type 304	587.60		233.22	
	For Work In Restricted Working Space, Add	139.79			
40 05 23 43-0534	EA 6" Tees, Stainless Steel Schedule 10 Type 304	959.97		310.96	
	For Work In Restricted Working Space, Add	186.56			
40 05 23 43-0535	EA 8" Tee, Stainless Steel Schedule 10 Type 304.....	1,501.65		399.01	
	For Work In Restricted Working Space, Add	256.51			
40 05 23 43-0536	EA 10" Tee, Stainless Steel Schedule 10 Type 304.....	2,211.31		598.52	
	For Work In Restricted Working Space, Add	384.76			
40 05 23 43-0537	EA 12" Tee, Stainless Steel Schedule 10 Type 304	3,615.49		748.15	
	For Work In Restricted Working Space, Add	480.95			
40 05 23 43-0538	EA 14" Tee, Stainless Steel Schedule 10 Type 304.....	4,563.22		897.78	
	For Work In Restricted Working Space, Add	577.97			
40 05 23 43-0539	EA 16" Tee, Stainless Steel Schedule 10 Type 304.....	5,162.30		1,097.28	
	For Work In Restricted Working Space, Add	705.06			
40 05 23 43-0540	EA 18" Tee, Stainless Steel Schedule 10 Type 304	6,346.46		1,396.55	
	For Work In Restricted Working Space, Add	897.78			
40 05 23 43-0541	EA 20" Tee, Stainless Steel Schedule 10 Type 304.....	9,447.47		1,845.43	
	For Work In Restricted Working Space, Add	1,181.29			
40 05 23 43-0542	EA 24" Tee, Stainless Steel Schedule 10 Type 304.....	14,469.54		2,793.09	
	For Work In Restricted Working Space, Add	1,795.56			
40 05 23 43-0543 Reducers (40 05 23 43-0466)					
40 05 23 43-0544	EA 3/4" Reducer, Stainless Steel Schedule 10 Type 304.....	141.83		57.01	
	For Work In Restricted Working Space, Add	34.23			

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0545 EA 1" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	156.37 37.31	62.19
40 05 23 43-0546 EA 1-1/4" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	187.83 41.35	68.92
40 05 23 43-0547 EA 1-1/2" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	171.59 45.05	75.15
40 05 23 43-0548 EA 2" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	189.05 49.76	82.92
40 05 23 43-0549 EA 2-1/2" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	242.42 62.18	103.65
40 05 23 43-0550 EA 3" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	270.82 70.81	118.17
40 05 23 43-0551 EA 4" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	315.79 82.97	138.37
40 05 23 43-0552 EA 6" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	405.63 105.64	176.21
40 05 23 43-0553 EA 8" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	758.32 153.91	239.41
40 05 23 43-0554 EA 10" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	982.43 192.38	299.26
40 05 23 43-0555 EA 12" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,306.72 256.51	399.01
40 05 23 43-0556 EA 14" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	1,731.43 336.67	523.70
40 05 23 43-0557 EA 16" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,039.31 383.99	598.52
40 05 23 43-0558 EA 18" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	2,538.50 480.95	748.15
40 05 23 43-0559 EA 20" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	3,757.00 641.27	997.53
40 05 23 43-0560 EA 24" Reducer, Stainless Steel Schedule 10 Type 304..... <i>For Work In Restricted Working Space, Add</i>	5,845.81 961.91	1,496.30
40 05 23 43-0561 Flanges (40 05 23 43-0466)		
40 05 23 43-0562 EA 1/2" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	75.91 14.31	23.84
40 05 23 43-0563 EA 3/4" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	80.05 15.55	25.92
40 05 23 43-0564 EA 1" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	97.68 20.84	34.73
40 05 23 43-0565 EA 1-1/4" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	107.35 21.76	36.28
40 05 23 43-0566 EA 1-1/2" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	124.31 24.88	41.46
40 05 23 43-0567 EA 2" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	146.85 27.97	46.64
40 05 23 43-0568 EA 2-1/2" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	197.26 35.76	59.60
40 05 23 43-0569 EA 3" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	219.60 41.33	68.92
40 05 23 43-0570 EA 4" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	300.40 55.97	93.29
40 05 23 43-0571 EA 6" Flanges, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	453.33 82.95	138.37
40 05 23 43-0572 EA 8" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	764.00 96.19	149.63
40 05 23 43-0573 EA 10" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,141.96 112.22	174.57
40 05 23 43-0574 EA 12" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,561.38 128.25	199.51
40 05 23 43-0575 EA 14" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	2,063.32 160.32	249.39
40 05 23 43-0576 EA 16" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	2,743.55 192.38	299.26
40 05 23 43-0577 EA 18" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	2,868.82 224.45	349.14
40 05 23 43-0578 EA 20" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	3,927.20 272.60	423.95
40 05 23 43-0579 EA 24" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	8,613.24 352.53	548.65
40 05 23 43-0580 Slip-On Flanges (40 05 23 43-0466)		
40 05 23 43-0581 EA 1/2" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	133.05 31.10	51.82
40 05 23 43-0582 EA 3/4" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	137.01 31.10	51.82
40 05 23 43-0583 EA 1" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	163.26 38.26	63.74
40 05 23 43-0584 EA 1-1/4" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	179.22 41.35	68.92
40 05 23 43-0585 EA 1-1/2" Flange, Stainless Steel Schedule 10 Type 304 <i>For Work In Restricted Working Space, Add</i>	199.32 45.40	75.67



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0586 EA 2" Flange, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	229.69 49.72	82.92
40 05 23 43-0587 EA 2-1/2" Flange, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	278.76 55.97	93.29
40 05 23 43-0588 EA 3" Flange, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	305.93 62.15	103.65
40 05 23 43-0589 EA 4" Flange, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	416.07 83.34	138.89
40 05 23 43-0590 EA 6" Flange, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	628.66 124.26	207.30
40 05 23 43-0591 EA 8" Flange, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	1,641.06 192.38	299.26
40 05 23 43-0592 Caps (40 05 23 43-0466)		
40 05 23 43-0593 EA 1/2" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	66.44 14.31	23.84
40 05 23 43-0594 EA 3/4" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	73.18 15.55	25.92
40 05 23 43-0595 EA 1" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	92.75 20.53	34.21
40 05 23 43-0596 EA 1-1/4" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	99.78 21.76	36.28
40 05 23 43-0597 EA 1-1/2" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	112.12 24.88	41.46
40 05 23 43-0598 EA 2" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	123.39 27.97	46.64
40 05 23 43-0599 EA 2-1/2" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	154.23 35.76	59.60
40 05 23 43-0600 EA 3" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	176.68 41.33	68.92
40 05 23 43-0601 EA 4" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	252.61 55.35	92.25
40 05 23 43-0602 EA 6" Cap, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	346.56 82.95	138.37
40 05 23 43-0603 Reducing Tees (40 05 23 43-0466)		
40 05 23 43-0604 EA 3/4" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	178.78 37.64	75.15
40 05 23 43-0605 EA 1" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	220.49 46.13	92.25
40 05 23 43-0606 EA 1-1/4" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	246.24 51.83	103.65
40 05 23 43-0607 EA 1-1/2" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	277.17 59.08	118.17
40 05 23 43-0608 EA 2" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	305.80 63.49	126.98
40 05 23 43-0609 EA 2-1/2" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	419.58 69.19	138.37
40 05 23 43-0610 EA 3" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	439.93 82.93	165.85
40 05 23 43-0611 EA 4" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	545.71 103.65	207.30
40 05 23 43-0612 EA 6" Reducing Tees, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	888.82 118.43	236.84
40 05 23 43-0613 EA 8" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	1,479.21 160.32	299.26
40 05 23 43-0614 EA 10" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	3,037.04 213.76	399.01
40 05 23 43-0615 EA 12" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	4,009.12 320.63	598.52
40 05 23 43-0616 EA 14" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	5,136.61 385.20	719.22
40 05 23 43-0617 EA 16" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	5,675.20 469.88	877.33
40 05 23 43-0618 EA 18" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	6,895.64 598.52	1,117.23
40 05 23 43-0619 EA 20" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	9,154.15 787.53	1,470.07
40 05 23 43-0620 EA 24" Reducing Tee, Stainless Steel Schedule 10 Type 304 For Work In Restricted Working Space, Add	13,720.63 1,195.98	2,233.28
40 05 23 43-0621 Type 304 Schedule 40 Pipe And Welded Butt Fittings (40 05 23 43-0231)		
40 05 23 43-0622 Pipe (40 05 23 43-0621)		
40 05 23 43-0623 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	16.93 2.80	4.66
40 05 23 43-0624 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	20.60 3.42	5.70
40 05 23 43-0625 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting For Work In Restricted Working Space, Add	25.03 4.01	6.74

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0626 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	31.30 5.02	8.29
40 05 23 43-0627 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	35.93 5.66	9.33
40 05 23 43-0628 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.78 7.01	11.92
40 05 23 43-0629 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	56.09 8.00	13.47
40 05 23 43-0630 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.93 9.01	15.03
40 05 23 43-0631 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	87.92 10.67	17.62
40 05 23 43-0632 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	134.17 14.01	23.33
40 05 23 43-0633 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	231.59 24.49	37.90
40 05 23 43-0634 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	289.74 26.93	41.90
40 05 23 43-0635 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	358.03 29.93	46.38
40 05 23 43-0636 90 Degree Elbows (40 05 23 43-0621)		
40 05 23 43-0637 EA 1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	133.92 35.45	59.08
40 05 23 43-0638 EA 3/4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	141.17 37.62	62.71
40 05 23 43-0639 EA 1" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	155.73 41.36	68.92
40 05 23 43-0640 EA 1-1/4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	177.08 45.11	75.15
40 05 23 43-0641 EA 1-1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	188.02 49.71	82.92
40 05 23 43-0642 EA 2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	214.34 55.38	92.25
40 05 23 43-0643 EA 2-1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	298.03 70.82	118.17
40 05 23 43-0644 EA 3" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	360.47 82.91	138.37
40 05 23 43-0645 EA 4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	479.87 99.35	165.85
40 05 23 43-0646 EA 6" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	909.47 124.12	207.30
40 05 23 43-0647 EA 8" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,473.39 192.38	299.26
40 05 23 43-0648 EA 10" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	2,616.64 256.51	399.01
40 05 23 43-0649 EA 12" 90 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	3,716.93 384.76	598.52
40 05 23 43-0650 45 Degree (40 05 23 43-0621)		
40 05 23 43-0651 EA 1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	140.47 35.45	59.08
40 05 23 43-0652 EA 3/4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	147.72 37.62	62.71
40 05 23 43-0653 EA 1" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	160.16 41.36	68.92
40 05 23 43-0654 EA 1-1/4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	172.55 45.07	75.15
40 05 23 43-0655 EA 1-1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	195.65 49.77	82.92
40 05 23 43-0656 EA 2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	215.85 55.38	92.25
40 05 23 43-0657 EA 2-1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	295.54 70.87	118.17
40 05 23 43-0658 EA 3" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	336.04 83.02	138.37
40 05 23 43-0659 EA 4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	435.91 99.44	165.85
40 05 23 43-0660 EA 6" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	712.05 124.38	207.30
40 05 23 43-0661 EA 8" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,190.11 192.38	299.26
40 05 23 43-0662 EA 10" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,908.46 256.51	399.01
40 05 23 43-0663 EA 12" 45 Degree Elbow, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	2,645.80 384.76	598.52
40 05 23 43-0664 Tees (40 05 23 43-0621)		
40 05 23 43-0665 EA 1/2" Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	202.41 45.05	75.15



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0666 EA 3/4" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	236.59 55.31	92.25
40 05 23 43-0667 EA 1" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	259.37 62.14	103.65
40 05 23 43-0668 EA 1-1/4" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	320.42 70.90	118.17
40 05 23 43-0669 EA 1-1/2" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	305.88 76.10	126.98
40 05 23 43-0670 EA 2" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	331.46 82.97	138.37
40 05 23 43-0671 EA 2-1/2" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	480.17 99.44	165.85
40 05 23 43-0672 EA 3" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	533.75 124.54	207.30
40 05 23 43-0673 EA 4" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	627.08 139.79	233.22
40 05 23 43-0674 EA 6" Tees, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	1,105.19 186.56	310.96
40 05 23 43-0675 EA 8" Tee, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	2,156.32 256.51	399.01
40 05 23 43-0676 EA 10" Tee, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	3,761.19 384.76	598.52
40 05 23 43-0677 EA 12" Tee, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	4,701.48 480.95	748.15
40 05 23 43-0678 Reducers (40 05 23 43-0621)		
40 05 23 43-0679 EA 3/4" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	145.16 34.23	57.01
40 05 23 43-0680 EA 1" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	160.21 37.30	62.19
40 05 23 43-0681 EA 1-1/4" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	193.83 41.35	68.92
40 05 23 43-0682 EA 1-1/2" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	174.20 45.07	75.15
40 05 23 43-0683 EA 2" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	191.87 49.77	82.92
40 05 23 43-0684 EA 2-1/2" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	246.67 62.19	103.65
40 05 23 43-0685 EA 3" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	274.96 70.80	118.17
40 05 23 43-0686 EA 4" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	320.50 82.97	138.37
40 05 23 43-0687 EA 6" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	412.01 105.62	176.21
40 05 23 43-0688 EA 8" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	787.75 153.91	239.41
40 05 23 43-0689 EA 10" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	1,023.37 192.38	299.26
40 05 23 43-0690 EA 12" Reducer, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	1,360.93 256.51	399.01
40 05 23 43-0691 Flanges (40 05 23 43-0621)		
40 05 23 43-0692 EA 1/2" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	79.29 14.31	23.84
40 05 23 43-0693 EA 3/4" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	83.43 15.55	25.92
40 05 23 43-0694 EA 1" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	101.06 20.84	34.73
40 05 23 43-0695 EA 1-1/4" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	111.53 21.76	36.28
40 05 23 43-0696 EA 1-1/2" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	129.27 24.88	41.46
40 05 23 43-0697 EA 2" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	153.29 27.97	46.64
40 05 23 43-0698 EA 2-1/2" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	206.62 35.76	59.60
40 05 23 43-0699 EA 3" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	229.42 41.33	68.92
40 05 23 43-0700 EA 4" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	314.06 55.97	93.29
40 05 23 43-0701 EA 6" Flanges, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	474.54 82.95	138.37
40 05 23 43-0702 EA 8" Flange, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	817.21 96.19	149.63
40 05 23 43-0703 EA 10" Flange, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	1,234.11 112.22	174.57
40 05 23 43-0704 EA 12" Flange, Stainless Steel Schedule 40 Type 304..... For Work In Restricted Working Space, Add	1,697.44 128.25	199.51
40 05 23 43-0705 Slip-On Flanges (40 05 23 43-0621)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0706 EA 1/2" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	136.57 31.10	51.82
40 05 23 43-0707 EA 3/4" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	141.01 31.10	51.82
40 05 23 43-0708 EA 1" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	167.55 38.26	63.74
40 05 23 43-0709 EA 1-1/4" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	184.18 41.35	68.92
40 05 23 43-0710 EA 1-1/2" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	205.08 45.40	75.67
40 05 23 43-0711 EA 2" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	237.36 49.72	82.92
40 05 23 43-0712 EA 2-1/2" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	289.82 55.97	93.29
40 05 23 43-0713 EA 3" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	317.78 62.15	103.65
40 05 23 43-0714 EA 4" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	432.67 83.34	138.89
40 05 23 43-0715 EA 6" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	654.39 124.26	207.30
40 05 23 43-0716 EA 8" Flange, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,761.04 192.38	299.26
40 05 23 43-0717 Caps (40 05 23 43-0621)		
40 05 23 43-0718 EA 1/2" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	68.69 14.31	23.84
40 05 23 43-0719 EA 3/4" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	75.74 15.55	25.92
40 05 23 43-0720 EA 1" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	95.67 20.53	34.21
40 05 23 43-0721 EA 1-1/4" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	103.05 21.76	36.28
40 05 23 43-0722 EA 1-1/2" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	115.62 24.88	41.46
40 05 23 43-0723 EA 2" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	127.01 27.97	46.64
40 05 23 43-0724 EA 2-1/2" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	158.43 35.76	59.60
40 05 23 43-0725 EA 3" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	181.35 41.33	68.92
40 05 23 43-0726 EA 4" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	260.78 55.35	92.25
40 05 23 43-0727 EA 6" Cap, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	354.96 82.95	138.37
40 05 23 43-0728 Reducing Tees (40 05 23 43-0621)		
40 05 23 43-0729 EA 1/2" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	182.56 37.53	75.15
40 05 23 43-0730 EA 3/4" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	211.03 46.07	92.25
40 05 23 43-0731 EA 1" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	230.06 51.78	103.65
40 05 23 43-0732 EA 1-1/4" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	289.35 59.05	118.17
40 05 23 43-0733 EA 1-1/2" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	268.74 63.39	126.98
40 05 23 43-0734 EA 2" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	290.83 69.14	138.37
40 05 23 43-0735 EA 2-1/2" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	439.73 82.84	165.85
40 05 23 43-0736 EA 3" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	476.54 103.82	207.30
40 05 23 43-0737 EA 4" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	565.60 116.51	233.22
40 05 23 43-0738 EA 6" Reducing Tees, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	1,049.51 155.35	310.96
40 05 23 43-0739 EA 8" Reducing Tee, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	2,143.94 213.76	399.01
40 05 23 43-0740 EA 10" Reducing Tee, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	3,795.30 320.63	598.52
40 05 23 43-0741 EA 12" Reducing Tee, Stainless Steel Schedule 40 Type 304 <i>For Work In Restricted Working Space, Add</i>	4,744.13 400.79	748.15
40 05 23 43-0742 Type 316, Schedule 40 Pipe And 150 LB Threaded Fittings (40 05 23 43-0231)		
40 05 23 43-0743 Pipe (40 05 23 43-0742)		
40 05 23 43-0744 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	16.78 2.87	4.79
40 05 23 43-0745 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	20.10 3.59	6.02



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
40 05 23 43-0746	LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	25.11		7.25	
	For Work In Restricted Working Space, Add	4.31			
40 05 23 43-0747	LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	30.37		8.36	
	For Work In Restricted Working Space, Add	5.03			
40 05 23 43-0748	LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	35.16		9.48	
	For Work In Restricted Working Space, Add	5.72			
40 05 23 43-0749	LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	45.13		12.04	
	For Work In Restricted Working Space, Add	7.19			
40 05 23 43-0750	LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	60.18		14.26	
	For Work In Restricted Working Space, Add	8.57			
40 05 23 43-0751	LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	78.06		17.94	
	For Work In Restricted Working Space, Add	10.79			
40 05 23 43-0752	LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting	104.45		23.74	
	For Work In Restricted Working Space, Add	14.23			
40 05 23 43-0753	90 Degree Elbows (40 05 23 43-0742)				
40 05 23 43-0754	EA 1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	46.85		17.94	
	For Work In Restricted Working Space, Add	10.79			
40 05 23 43-0755	EA 3/4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	61.14		23.74	
	For Work In Restricted Working Space, Add	14.23			
40 05 23 43-0756	EA 1" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	76.36		30.10	
	For Work In Restricted Working Space, Add	18.08			
40 05 23 43-0757	EA 1-1/4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316	109.13		41.24	
	For Work In Restricted Working Space, Add	24.77			
40 05 23 43-0758	EA 1-1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316	124.97		48.48	
	For Work In Restricted Working Space, Add	29.08			
40 05 23 43-0759	EA 2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	160.87		58.64	
	For Work In Restricted Working Space, Add	35.20			
40 05 23 43-0760	EA 2-1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316	291.49		92.85	
	For Work In Restricted Working Space, Add	55.73			
40 05 23 43-0761	EA 3" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	380.19		119.82	
	For Work In Restricted Working Space, Add	71.88			
40 05 23 43-0762	EA 4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	564.45		148.58	
	For Work In Restricted Working Space, Add	89.13			
40 05 23 43-0763	45 Degree Elbows (40 05 23 43-0742)				
40 05 23 43-0764	EA 1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	50.69		17.94	
	For Work In Restricted Working Space, Add	10.79			
40 05 23 43-0765	EA 3/4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	65.60		23.74	
	For Work In Restricted Working Space, Add	14.23			
40 05 23 43-0766	EA 1" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	78.60		30.10	
	For Work In Restricted Working Space, Add	18.08			
40 05 23 43-0767	EA 1-1/4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316	106.87		41.24	
	For Work In Restricted Working Space, Add	24.77			
40 05 23 43-0768	EA 1-1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316	126.12		48.48	
	For Work In Restricted Working Space, Add	29.08			
40 05 23 43-0769	EA 2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	159.91		58.64	
	For Work In Restricted Working Space, Add	35.20			
40 05 23 43-0770	EA 2-1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316	324.71		92.85	
	For Work In Restricted Working Space, Add	55.73			
40 05 23 43-0771	EA 3" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	443.87		119.82	
	For Work In Restricted Working Space, Add	71.91			
40 05 23 43-0772	EA 4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316.....	666.07		148.58	
	For Work In Restricted Working Space, Add	89.17			
40 05 23 43-0773	Tees (40 05 23 43-0742)				
40 05 23 43-0774	EA 1/2" Tee, Stainless Steel Schedule 40 Type 316.....	69.79		27.20	
	For Work In Restricted Working Space, Add	16.31			
40 05 23 43-0775	EA 3/4" Tee, Stainless Steel Schedule 40 Type 316.....	90.95		36.01	
	For Work In Restricted Working Space, Add	21.57			
40 05 23 43-0776	EA 1" Tee, Stainless Steel Schedule 40 Type 316.....	109.24		44.58	
	For Work In Restricted Working Space, Add	26.75			
40 05 23 43-0777	EA 1-1/4" Tee, Stainless Steel Schedule 40 Type 316.....	159.53		61.97	
	For Work In Restricted Working Space, Add	37.16			
40 05 23 43-0778	EA 1-1/2" Tee, Stainless Steel Schedule 40 Type 316.....	181.05		69.66	
	For Work In Restricted Working Space, Add	41.80			
40 05 23 43-0779	EA 2" Tee, Stainless Steel Schedule 40 Type 316.....	242.41		92.85	
	For Work In Restricted Working Space, Add	55.73			
40 05 23 43-0780	EA 2-1/2" Tee, Stainless Steel Schedule 40 Type 316.....	434.50		134.32	
	For Work In Restricted Working Space, Add	80.58			
40 05 23 43-0781	EA 3" Tee, Stainless Steel Schedule 40 Type 316.....	615.02		179.80	
	For Work In Restricted Working Space, Add	107.87			
40 05 23 43-0782	EA 4" Tee, Stainless Steel Schedule 40 Type 316.....	859.33		222.93	
	For Work In Restricted Working Space, Add	133.76			
40 05 23 43-0783	Reducers (40 05 23 43-0742)				
40 05 23 43-0784	EA 3/4" x 1/2" Reducer, Stainless Steel Schedule 40 Type 316.....	57.57		23.74	
	For Work In Restricted Working Space, Add	14.23			

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0785 EA 1" x 3/4" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	76.70 18.08	30.10
40 05 23 43-0786 EA 1-1/4" x 1" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	107.56 24.77	41.24
40 05 23 43-0787 EA 1-1/2" x 1-1/4" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	128.82 29.08	48.48
40 05 23 43-0788 EA 2" x 1-1/2" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	162.95 35.20	58.64
40 05 23 43-0789 EA 2-1/2" x 2" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	293.39 55.73	92.85
40 05 23 43-0790 EA 3" x 2-1/2" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	386.42 71.91	119.82
40 05 23 43-0791 EA 4" x 3" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	525.88 89.17	148.58
40 05 23 43-0792 Unions (40 05 23 43-0742)		
40 05 23 43-0793 EA 1/2" Union, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	76.11 16.31	27.20
40 05 23 43-0794 EA 3/4" Union, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	99.62 21.57	36.01
40 05 23 43-0795 EA 1" Union, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	133.42 26.75	44.58
40 05 23 43-0796 EA 1-1/4" Union, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	202.91 37.16	61.97
40 05 23 43-0797 EA 1-1/2" Union, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	234.11 41.80	69.66
40 05 23 43-0798 EA 2" Union, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	310.98 55.73	92.85
40 05 23 43-0799 Flanges (40 05 23 43-0742)		
40 05 23 43-0800 EA 2-1/2" Flange, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	292.47 55.73	92.85
40 05 23 43-0801 EA 3" Flange, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	358.28 71.91	119.82
40 05 23 43-0802 EA 4" Flange, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	466.44 89.17	148.58
40 05 23 43-0803 Caps (40 05 23 43-0742)		
40 05 23 43-0804 EA 1/2" Cap, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	21.91 5.39	9.03
40 05 23 43-0805 EA 3/4" Cap, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	29.71 7.19	12.04
40 05 23 43-0806 EA 1" Cap, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	38.14 8.92	14.83
40 05 23 43-0807 EA 1-1/4" Cap, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	64.12 12.62	21.07
40 05 23 43-0808 EA 1-1/2" Cap, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	72.92 14.23	23.74
40 05 23 43-0809 EA 2" Cap, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	92.56 18.08	30.10
40 05 23 43-0810 EA 2-1/2" Cap, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	141.20 26.75	44.58
40 05 23 43-0811 EA 3" Cap, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	189.22 35.20	58.64
40 05 23 43-0812 EA 4" Cap, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	281.51 44.59	74.35
40 05 23 43-0813 Type 316 Schedule 5 Pipe And Welded Butt Fittings (40 05 23 43-0231)		
40 05 23 43-0814 Pipe (40 05 23 43-0813)		
40 05 23 43-0815 LF 1/2" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	17.43 2.80	4.66
40 05 23 43-0816 LF 3/4" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	20.73 3.42	5.70
40 05 23 43-0817 LF 1" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	24.64 4.01	6.74
40 05 23 43-0818 LF 1-1/4" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.58 5.02	8.39
40 05 23 43-0819 LF 1-1/2" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	33.69 5.66	9.43
40 05 23 43-0820 LF 2" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	41.96 7.01	11.71
40 05 23 43-0821 LF 2-1/2" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	52.57 8.00	13.37
40 05 23 43-0822 LF 3" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	61.26 9.01	15.03
40 05 23 43-0823 LF 4" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	75.44 10.67	17.83



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0824	LF		6" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	120.65	23.43
			For Work In Restricted Working Space, Add	14.01	
40 05 23 43-0825	LF		8" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	194.87	38.10
			For Work In Restricted Working Space, Add	24.49	
40 05 23 43-0826	LF		10" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	249.25	41.90
			For Work In Restricted Working Space, Add	26.93	
40 05 23 43-0827	LF		12" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	284.89	46.58
			For Work In Restricted Working Space, Add	29.93	
40 05 23 43-0828	LF		14" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	350.01	52.37
			For Work In Restricted Working Space, Add	33.67	
40 05 23 43-0829	LF		16" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	385.62	59.85
			For Work In Restricted Working Space, Add	38.48	
40 05 23 43-0830	LF		18" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	432.32	69.83
			For Work In Restricted Working Space, Add	44.89	
40 05 23 43-0831	LF		20" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	576.88	83.79
			For Work In Restricted Working Space, Add	53.87	
40 05 23 43-0832	LF		24" Pipe, Stainless Steel Schedule 5 Type 316 For Welded Butt Fitting	751.38	104.74
			For Work In Restricted Working Space, Add	67.33	
40 05 23 43-0833 90 Degree Elbows (40 05 23 43-0813)					
40 05 23 43-0834	EA		1/2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	136.08	59.08
			For Work In Restricted Working Space, Add	35.45	
40 05 23 43-0835	EA		3/4" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	144.26	62.71
			For Work In Restricted Working Space, Add	37.62	
40 05 23 43-0836	EA		1" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	158.33	68.92
			For Work In Restricted Working Space, Add	41.35	
40 05 23 43-0837	EA		1-1/4" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316	183.09	75.15
			For Work In Restricted Working Space, Add	45.09	
40 05 23 43-0838	EA		1-1/2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316	191.44	82.92
			For Work In Restricted Working Space, Add	49.70	
40 05 23 43-0839	EA		2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	219.11	92.25
			For Work In Restricted Working Space, Add	55.37	
40 05 23 43-0840	EA		2-1/2" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316	285.18	118.17
			For Work In Restricted Working Space, Add	70.80	
40 05 23 43-0841	EA		3" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	338.32	138.37
			For Work In Restricted Working Space, Add	82.88	
40 05 23 43-0842	EA		4" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	445.70	165.85
			For Work In Restricted Working Space, Add	99.28	
40 05 23 43-0843	EA		6" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	741.84	207.30
			For Work In Restricted Working Space, Add	124.19	
40 05 23 43-0844	EA		8" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	1,198.69	299.26
			For Work In Restricted Working Space, Add	192.38	
40 05 23 43-0845	EA		10" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	2,002.66	399.01
			For Work In Restricted Working Space, Add	256.51	
40 05 23 43-0846	EA		12" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	2,592.93	598.52
			For Work In Restricted Working Space, Add	384.76	
40 05 23 43-0847	EA		14" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	3,946.14	698.27
			For Work In Restricted Working Space, Add	448.89	
40 05 23 43-0848	EA		16" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	4,901.43	798.02
			For Work In Restricted Working Space, Add	512.04	
40 05 23 43-0849	EA		18" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	6,245.62	997.53
			For Work In Restricted Working Space, Add	641.27	
40 05 23 43-0850	EA		20" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	10,253.11	1,396.55
			For Work In Restricted Working Space, Add	897.78	
40 05 23 43-0851	EA		24" 90 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	14,229.08	1,995.07
			For Work In Restricted Working Space, Add	1,282.54	
40 05 23 43-0852 45 Degree Elbows (40 05 23 43-0813)					
40 05 23 43-0853	EA		1/2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	143.92	59.08
			For Work In Restricted Working Space, Add	35.45	
40 05 23 43-0854	EA		3/4" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	151.17	62.71
			For Work In Restricted Working Space, Add	37.62	
40 05 23 43-0855	EA		1" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	166.88	68.92
			For Work In Restricted Working Space, Add	41.35	
40 05 23 43-0856	EA		1-1/4" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316	199.40	75.15
			For Work In Restricted Working Space, Add	45.07	
40 05 23 43-0857	EA		1-1/2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316	192.25	82.92
			For Work In Restricted Working Space, Add	49.77	
40 05 23 43-0858	EA		2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	214.89	92.25
			For Work In Restricted Working Space, Add	55.37	
40 05 23 43-0859	EA		2-1/2" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316	286.57	118.17
			For Work In Restricted Working Space, Add	70.86	
40 05 23 43-0860	EA		3" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	328.37	138.37
			For Work In Restricted Working Space, Add	83.05	
40 05 23 43-0861	EA		4" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	422.71	165.85
			For Work In Restricted Working Space, Add	99.41	
40 05 23 43-0862	EA		6" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	611.35	207.30
			For Work In Restricted Working Space, Add	124.38	
40 05 23 43-0863	EA		8" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	985.56	299.26
			For Work In Restricted Working Space, Add	192.38	
40 05 23 43-0864	EA		10" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316.....	1,627.92	399.01
			For Work In Restricted Working Space, Add	256.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0865 EA 12" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,512.14 384.76	598.52
40 05 23 43-0866 EA 14" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	3,126.40 448.89	698.27
40 05 23 43-0867 EA 16" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	3,849.82 512.04	798.02
40 05 23 43-0868 EA 18" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	5,264.28 641.27	997.53
40 05 23 43-0869 EA 20" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	8,976.67 897.78	1,396.55
40 05 23 43-0870 EA 24" 45 Degree Elbow, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	12,156.32 1,282.54	1,995.07
40 05 23 43-0871 Tees (40 05 23 43-0813)		
40 05 23 43-0872 EA 1/2" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	222.79 45.05	75.15
40 05 23 43-0873 EA 3/4" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	256.97 55.31	92.25
40 05 23 43-0874 EA 1" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	276.23 62.14	103.65
40 05 23 43-0875 EA 1-1/4" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	354.49 70.86	118.17
40 05 23 43-0876 EA 1-1/2" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	322.63 76.06	126.98
40 05 23 43-0877 EA 2" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	349.16 82.97	138.37
40 05 23 43-0878 EA 2-1/2" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	537.48 99.41	165.85
40 05 23 43-0879 EA 3" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	549.94 124.58	207.30
40 05 23 43-0880 EA 4" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	655.76 139.82	233.22
40 05 23 43-0881 EA 6" Tees, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,195.23 186.42	310.96
40 05 23 43-0882 EA 8" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,166.61 256.51	399.01
40 05 23 43-0883 EA 10" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	3,343.59 384.76	598.52
40 05 23 43-0884 EA 12" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	4,238.04 480.95	748.15
40 05 23 43-0885 EA 14" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	5,376.48 577.97	897.78
40 05 23 43-0886 EA 16" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	6,032.00 705.06	1,097.28
40 05 23 43-0887 EA 18" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	7,384.03 897.78	1,396.55
40 05 23 43-0888 EA 20" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	11,151.31 1,181.29	1,845.43
40 05 23 43-0889 EA 24" Tee, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	17,093.79 1,795.56	2,793.09
40 05 23 43-0890 Reducers (40 05 23 43-0813)		
40 05 23 43-0891 EA 3/4" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	148.95 34.23	57.01
40 05 23 43-0892 EA 1" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	164.59 37.30	62.19
40 05 23 43-0893 EA 1-1/4" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	200.66 41.35	68.92
40 05 23 43-0894 EA 1-1/2" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	177.12 45.07	75.15
40 05 23 43-0895 EA 2" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	195.04 49.77	82.92
40 05 23 43-0896 EA 2-1/2" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	251.47 62.19	103.65
40 05 23 43-0897 EA 3" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	279.71 70.80	118.17
40 05 23 43-0898 EA 4" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	325.87 82.97	138.37
40 05 23 43-0899 EA 6" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	419.32 105.62	176.21
40 05 23 43-0900 EA 8" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	821.29 153.91	239.41
40 05 23 43-0901 EA 10" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,070.02 192.38	299.26
40 05 23 43-0902 EA 12" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,422.69 256.51	399.01
40 05 23 43-0903 EA 14" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,887.83 336.67	523.70
40 05 23 43-0904 EA 16" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,233.16 383.67	598.52
40 05 23 43-0905 EA 18" Reducer, Stainless Steel Schedule 5 Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,778.62 480.95	748.15



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0906 EA 20" Reducer, Stainless Steel Schedule 5 Type 316..... For Work In Restricted Working Space, Add	4,172.75 641.27	997.53
40 05 23 43-0907 EA 24" Reducer, Stainless Steel Schedule 5 Type 316..... For Work In Restricted Working Space, Add	6,523.44 961.91	1,496.30
40 05 23 43-0908 Weld Neck Flanges (40 05 23 43-0813)		
40 05 23 43-0909 EA 1/2" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	81.73 14.31	23.84
40 05 23 43-0910 EA 3/4" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	85.87 15.55	25.92
40 05 23 43-0911 EA 1" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	103.51 20.84	34.73
40 05 23 43-0912 EA 1-1/4" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	114.54 21.76	36.28
40 05 23 43-0913 EA 1-1/2" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	132.85 24.88	41.46
40 05 23 43-0914 EA 2" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	157.91 27.96	46.64
40 05 23 43-0915 EA 2-1/2" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	213.36 35.76	59.60
40 05 23 43-0916 EA 3" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	236.51 41.33	68.92
40 05 23 43-0917 EA 4" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	323.87 55.97	93.29
40 05 23 43-0918 EA 6" Flanges, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	489.88 82.97	138.37
40 05 23 43-0919 EA 8" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	855.54 96.19	149.63
40 05 23 43-0920 EA 10" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	1,300.50 112.22	174.57
40 05 23 43-0921 EA 12" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	1,795.48 128.25	199.51
40 05 23 43-0922 EA 14" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	2,378.98 160.32	249.39
40 05 23 43-0923 EA 16" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	3,177.59 192.38	299.26
40 05 23 43-0924 EA 18" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	3,306.65 224.45	349.14
40 05 23 43-0925 EA 20" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	4,550.41 272.60	423.95
40 05 23 43-0926 EA 24" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	10,148.94 352.53	548.65
40 05 23 43-0927 Slip-On Flanges (40 05 23 43-0813)		
40 05 23 43-0928 EA 1/2" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	139.11 31.10	51.82
40 05 23 43-0929 EA 3/4" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	143.89 31.10	51.82
40 05 23 43-0930 EA 1" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	170.64 38.26	63.74
40 05 23 43-0931 EA 1-1/4" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	187.77 41.35	68.92
40 05 23 43-0932 EA 1-1/2" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	209.24 45.41	75.67
40 05 23 43-0933 EA 2" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	242.85 49.70	82.92
40 05 23 43-0934 EA 2-1/2" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	297.76 55.97	93.29
40 05 23 43-0935 EA 3" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	326.30 62.14	103.65
40 05 23 43-0936 EA 4" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	444.56 83.32	138.89
40 05 23 43-0937 EA 6" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	672.67 124.19	207.30
40 05 23 43-0938 EA 8" Flange, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	1,847.48 192.38	299.26
40 05 23 43-0939 Caps (40 05 23 43-0813)		
40 05 23 43-0940 EA 1/2" Cap, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	70.31 14.31	23.84
40 05 23 43-0941 EA 3/4" Cap, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	77.59 15.55	25.92
40 05 23 43-0942 EA 1" Cap, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	97.78 20.53	34.21
40 05 23 43-0943 EA 1-1/4" Cap, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	105.41 21.76	36.28
40 05 23 43-0944 EA 1-1/2" Cap, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	118.14 24.88	41.46
40 05 23 43-0945 EA 2" Cap, Stainless Steel Schedule 5 Type 316 For Work In Restricted Working Space, Add	129.60 27.96	46.64

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-0946 EA 2-1/2" Cap, Stainless Steel Schedule 5 Type 316	161.45	59.60
For Work In Restricted Working Space, Add	35.76	
40 05 23 43-0947 EA 3" Cap, Stainless Steel Schedule 5 Type 316.....	184.73	68.92
For Work In Restricted Working Space, Add	41.33	
40 05 23 43-0948 EA 4" Cap, Stainless Steel Schedule 5 Type 316.....	266.60	92.25
For Work In Restricted Working Space, Add	55.33	
40 05 23 43-0949 EA 6" Cap, Stainless Steel Schedule 5 Type 316.....	361.07	138.37
For Work In Restricted Working Space, Add	82.97	
40 05 23 43-0950 Reducing Tees (40 05 23 43-0913)		
40 05 23 43-0951 EA 3/4" Reducing Tees, Stainless Steel Schedule 5 Type 316	190.81	75.15
For Work In Restricted Working Space, Add	37.64	
40 05 23 43-0952 EA 1" Reducing Tees, Stainless Steel Schedule 5 Type 316	219.11	92.25
For Work In Restricted Working Space, Add	46.13	
40 05 23 43-0953 EA 1-1/4" Reducing Tees, Stainless Steel Schedule 5 Type 316.....	260.24	103.65
For Work In Restricted Working Space, Add	51.83	
40 05 23 43-0954 EA 1-1/2" Reducing Tees, Stainless Steel Schedule 5 Type 316.....	260.31	118.17
For Work In Restricted Working Space, Add	59.08	
40 05 23 43-0955 EA 2" Reducing Tees, Stainless Steel Schedule 5 Type 316	283.26	126.98
For Work In Restricted Working Space, Add	63.49	
40 05 23 43-0956 EA 2-1/2" Reducing Tees, Stainless Steel Schedule 5 Type 316.....	409.72	138.37
For Work In Restricted Working Space, Add	69.19	
40 05 23 43-0957 EA 3" Reducing Tees, Stainless Steel Schedule 5 Type 316	400.42	165.85
For Work In Restricted Working Space, Add	82.93	
40 05 23 43-0958 EA 4" Reducing Tees, Stainless Steel Schedule 5 Type 316	524.60	207.30
For Work In Restricted Working Space, Add	103.65	
40 05 23 43-0959 EA 6" Reducing Tees, Stainless Steel Schedule 5 Type 316	932.08	236.84
For Work In Restricted Working Space, Add	118.43	
40 05 23 43-0960 EA 8" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	1,659.29	299.26
For Work In Restricted Working Space, Add	160.32	
40 05 23 43-0961 EA 10" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	2,668.87	399.01
For Work In Restricted Working Space, Add	213.76	
40 05 23 43-0962 EA 12" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	3,570.70	598.52
For Work In Restricted Working Space, Add	320.63	
40 05 23 43-0963 EA 14" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	4,549.18	719.22
For Work In Restricted Working Space, Add	385.20	
40 05 23 43-0964 EA 16" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	5,062.88	877.33
For Work In Restricted Working Space, Add	469.88	
40 05 23 43-0965 EA 18" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	6,169.53	1,117.23
For Work In Restricted Working Space, Add	598.52	
40 05 23 43-0966 EA 20" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	9,472.30	1,469.87
For Work In Restricted Working Space, Add	787.53	
40 05 23 43-0967 EA 24" Reducing Tee, Stainless Steel Schedule 5 Type 316.....	14,537.08	2,233.47
For Work In Restricted Working Space, Add	1,195.98	
40 05 23 43-0968 Type 316 Schedule 10 Pipe And Welded Butt Fittings (40 05 23 43-0231)		
40 05 23 43-0969 Pipe (40 05 23 43-0968)		
40 05 23 43-0970 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting.....	17.34	4.66
For Work In Restricted Working Space, Add	2.80	
40 05 23 43-0971 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting.....	20.68	5.70
For Work In Restricted Working Space, Add	3.42	
40 05 23 43-0972 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	27.17	6.74
For Work In Restricted Working Space, Add	4.01	
40 05 23 43-0973 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	33.23	8.39
For Work In Restricted Working Space, Add	5.02	
40 05 23 43-0974 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	37.00	9.43
For Work In Restricted Working Space, Add	5.66	
40 05 23 43-0975 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	45.76	11.71
For Work In Restricted Working Space, Add	7.01	
40 05 23 43-0976 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	54.56	13.37
For Work In Restricted Working Space, Add	8.00	
40 05 23 43-0977 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	64.21	15.03
For Work In Restricted Working Space, Add	9.01	
40 05 23 43-0978 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	80.39	17.83
For Work In Restricted Working Space, Add	10.67	
40 05 23 43-0979 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	116.66	23.43
For Work In Restricted Working Space, Add	14.01	
40 05 23 43-0980 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	188.77	38.10
For Work In Restricted Working Space, Add	24.49	
40 05 23 43-0981 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	240.66	41.90
For Work In Restricted Working Space, Add	26.93	
40 05 23 43-0982 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	287.81	46.58
For Work In Restricted Working Space, Add	29.93	
40 05 23 43-0983 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	353.77	52.37
For Work In Restricted Working Space, Add	33.67	
40 05 23 43-0984 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	389.67	59.85
For Work In Restricted Working Space, Add	38.48	
40 05 23 43-0985 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	436.77	69.83
For Work In Restricted Working Space, Add	44.89	
40 05 23 43-0986 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	605.56	83.79
For Work In Restricted Working Space, Add	53.87	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 23 43-0987	LF	24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting	789.43	104.74
		For Work In Restricted Working Space, Add	67.33	
40 05 23 43-0988		90 Degree Elbows (40 05 23 43-0968)		
40 05 23 43-0989	EA	1/2" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	132.55	59.08
		For Work In Restricted Working Space, Add	35.45	
40 05 23 43-0990	EA	3/4" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	139.80	62.71
		For Work In Restricted Working Space, Add	37.62	
40 05 23 43-0991	EA	1" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	152.24	68.92
		For Work In Restricted Working Space, Add	41.36	
40 05 23 43-0992	EA	1-1/4" 90 Degree Elbow, Stainless Steel Schedule 10, Type 316	171.29	75.15
		For Work In Restricted Working Space, Add	45.11	
40 05 23 43-0993	EA	1-1/2" 90 Degree Elbow, Stainless Steel Schedule 10, Type 316	192.48	82.92
		For Work In Restricted Working Space, Add	49.71	
40 05 23 43-0994	EA	2" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	212.71	92.25
		For Work In Restricted Working Space, Add	55.38	
40 05 23 43-0995	EA	2-1/2" 90 Degree Elbow, Stainless Steel Schedule 10, Type 316	275.89	118.17
		For Work In Restricted Working Space, Add	70.82	
40 05 23 43-0996	EA	3" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	326.57	138.37
		For Work In Restricted Working Space, Add	82.91	
40 05 23 43-0997	EA	4" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	424.86	165.85
		For Work In Restricted Working Space, Add	99.35	
40 05 23 43-0998	EA	6" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	681.47	207.30
		For Work In Restricted Working Space, Add	124.12	
40 05 23 43-0999	EA	8" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	1,252.12	299.26
		For Work In Restricted Working Space, Add	192.38	
40 05 23 43-1000	EA	10" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	1,988.24	399.01
		For Work In Restricted Working Space, Add	256.51	
40 05 23 43-1001	EA	12" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	3,060.30	598.52
		For Work In Restricted Working Space, Add	384.76	
40 05 23 43-1002	EA	14" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	3,900.50	698.27
		For Work In Restricted Working Space, Add	448.89	
40 05 23 43-1003	EA	16" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	4,841.13	798.02
		For Work In Restricted Working Space, Add	512.04	
40 05 23 43-1004	EA	18" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	6,163.45	997.53
		For Work In Restricted Working Space, Add	641.27	
40 05 23 43-1005	EA	20" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	10,124.38	1,396.55
		For Work In Restricted Working Space, Add	897.78	
40 05 23 43-1006	EA	24" 90 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	14,040.28	1,995.07
		For Work In Restricted Working Space, Add	1,282.54	
40 05 23 43-1007		45 Degree Elbows (40 05 23 43-0968)		
40 05 23 43-1008	EA	1/2" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	138.45	59.08
		For Work In Restricted Working Space, Add	35.45	
40 05 23 43-1009	EA	3/4" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	145.70	62.71
		For Work In Restricted Working Space, Add	37.62	
40 05 23 43-1010	EA	1" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	158.14	68.92
		For Work In Restricted Working Space, Add	41.36	
40 05 23 43-1011	EA	1-1/4" 45 Degree Elbow, Stainless Steel Schedule 10, Type 316	172.95	75.15
		For Work In Restricted Working Space, Add	45.07	
40 05 23 43-1012	EA	1-1/2" 45 Degree Elbow, Stainless Steel Schedule 10, Type 316	189.12	82.92
		For Work In Restricted Working Space, Add	49.77	
40 05 23 43-1013	EA	2" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	223.20	92.25
		For Work In Restricted Working Space, Add	55.38	
40 05 23 43-1014	EA	2-1/2" 45 Degree Elbow, Stainless Steel Schedule 10, Type 316	275.15	118.17
		For Work In Restricted Working Space, Add	70.87	
40 05 23 43-1015	EA	3" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	317.27	138.37
		For Work In Restricted Working Space, Add	83.02	
40 05 23 43-1016	EA	4" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	402.81	165.85
		For Work In Restricted Working Space, Add	99.44	
40 05 23 43-1017	EA	6" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	567.06	207.30
		For Work In Restricted Working Space, Add	124.38	
40 05 23 43-1018	EA	8" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	1,107.83	299.26
		For Work In Restricted Working Space, Add	192.38	
40 05 23 43-1019	EA	10" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	1,623.59	399.01
		For Work In Restricted Working Space, Add	256.51	
40 05 23 43-1020	EA	12" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	2,508.46	598.52
		For Work In Restricted Working Space, Add	384.76	
40 05 23 43-1021	EA	14" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	3,121.57	698.27
		For Work In Restricted Working Space, Add	448.89	
40 05 23 43-1022	EA	16" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	3,842.86	798.02
		For Work In Restricted Working Space, Add	512.04	
40 05 23 43-1023	EA	18" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	5,255.12	997.53
		For Work In Restricted Working Space, Add	641.27	
40 05 23 43-1024	EA	20" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	8,964.28	1,396.55
		For Work In Restricted Working Space, Add	897.78	
40 05 23 43-1025	EA	24" 45 Degree Elbow, Stainless Steel Schedule 10 Type 316.....	12,130.53	1,995.07
		For Work In Restricted Working Space, Add	1,282.54	
40 05 23 43-1026		Tees (40 05 23 43-0968)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1027 EA 1/2" Tees, Stainless Steel Schedule 10 Type 316	198.45	75.15
For Work In Restricted Working Space, Add	45.05	
40 05 23 43-1028 EA 3/4" Tees, Stainless Steel Schedule 10 Type 316	232.63	92.25
For Work In Restricted Working Space, Add	55.31	
40 05 23 43-1029 EA 1" Tees, Stainless Steel Schedule 10 Type 316	255.41	103.65
For Work In Restricted Working Space, Add	62.14	
40 05 23 43-1030 EA 1-1/4" Tees, Stainless Steel Schedule 10 Type 316	289.42	118.17
For Work In Restricted Working Space, Add	70.90	
40 05 23 43-1031 EA 1-1/2" Tees, Stainless Steel Schedule 10 Type 316	308.36	126.98
For Work In Restricted Working Space, Add	76.10	
40 05 23 43-1032 EA 2" Tees, Stainless Steel Schedule 10 Type 316	361.85	138.37
For Work In Restricted Working Space, Add	82.97	
40 05 23 43-1033 EA 2-1/2" Tees, Stainless Steel Schedule 10 Type 316	436.03	165.85
For Work In Restricted Working Space, Add	99.44	
40 05 23 43-1034 EA 3" Tees, Stainless Steel Schedule 10 Type 316	563.15	207.30
For Work In Restricted Working Space, Add	124.54	
40 05 23 43-1035 EA 4" Tees, Stainless Steel Schedule 10 Type 316	626.87	233.22
For Work In Restricted Working Space, Add	139.79	
40 05 23 43-1036 EA 6" Tees, Stainless Steel Schedule 10 Type 316	1,069.14	310.96
For Work In Restricted Working Space, Add	186.56	
40 05 23 43-1037 EA 8" Tee, Stainless Steel Schedule 10 Type 316	1,710.42	399.01
For Work In Restricted Working Space, Add	256.51	
40 05 23 43-1038 EA 10" Tee, Stainless Steel Schedule 10 Type 316	2,511.18	598.52
For Work In Restricted Working Space, Add	384.76	
40 05 23 43-1039 EA 12" Tee, Stainless Steel Schedule 10 Type 316	4,265.22	748.15
For Work In Restricted Working Space, Add	480.95	
40 05 23 43-1040 EA 14" Tee, Stainless Steel Schedule 10 Type 316	5,414.53	897.78
For Work In Restricted Working Space, Add	577.97	
40 05 23 43-1041 EA 16" Tee, Stainless Steel Schedule 10 Type 316	6,070.26	1,097.28
For Work In Restricted Working Space, Add	705.06	
40 05 23 43-1042 EA 18" Tee, Stainless Steel Schedule 10 Type 316	7,429.34	1,396.55
For Work In Restricted Working Space, Add	897.78	
40 05 23 43-1043 EA 20" Tee, Stainless Steel Schedule 10 Type 316	11,226.46	1,845.43
For Work In Restricted Working Space, Add	1,181.29	
40 05 23 43-1044 EA 24" Tee, Stainless Steel Schedule 10 Type 316	17,208.93	2,793.09
For Work In Restricted Working Space, Add	1,795.56	
40 05 23 43-1045 Reducers (40 05 23 43-0968)		
40 05 23 43-1046 EA 3/4" Reducer, Stainless Steel Schedule 10 Type 316	150.78	57.01
For Work In Restricted Working Space, Add	34.23	
40 05 23 43-1047 EA 1" Reducer, Stainless Steel Schedule 10 Type 316	166.71	62.19
For Work In Restricted Working Space, Add	37.31	
40 05 23 43-1048 EA 1-1/4" Reducer, Stainless Steel Schedule 10 Type 316	203.97	68.92
For Work In Restricted Working Space, Add	41.35	
40 05 23 43-1049 EA 1-1/2" Reducer, Stainless Steel Schedule 10 Type 316	178.50	75.15
For Work In Restricted Working Space, Add	45.05	
40 05 23 43-1050 EA 2" Reducer, Stainless Steel Schedule 10 Type 316	196.54	82.92
For Work In Restricted Working Space, Add	49.76	
40 05 23 43-1051 EA 2-1/2" Reducer, Stainless Steel Schedule 10 Type 316	253.77	103.65
For Work In Restricted Working Space, Add	62.18	
40 05 23 43-1052 EA 3" Reducer, Stainless Steel Schedule 10 Type 316	282.06	118.17
For Work In Restricted Working Space, Add	70.81	
40 05 23 43-1053 EA 4" Reducer, Stainless Steel Schedule 10 Type 316	328.47	138.37
For Work In Restricted Working Space, Add	82.97	
40 05 23 43-1054 EA 6" Reducer, Stainless Steel Schedule 10 Type 316	422.91	176.21
For Work In Restricted Working Space, Add	105.64	
40 05 23 43-1055 EA 8" Reducer, Stainless Steel Schedule 10 Type 316	837.52	239.41
For Work In Restricted Working Space, Add	153.91	
40 05 23 43-1056 EA 10" Reducer, Stainless Steel Schedule 10 Type 316	1,092.59	299.26
For Work In Restricted Working Space, Add	192.38	
40 05 23 43-1057 EA 12" Reducer, Stainless Steel Schedule 10 Type 316	1,452.56	399.01
For Work In Restricted Working Space, Add	256.51	
40 05 23 43-1058 EA 14" Reducer, Stainless Steel Schedule 10 Type 316	1,928.12	523.70
For Work In Restricted Working Space, Add	336.67	
40 05 23 43-1059 EA 16" Reducer, Stainless Steel Schedule 10 Type 316	2,284.48	598.52
For Work In Restricted Working Space, Add	383.99	
40 05 23 43-1060 EA 18" Reducer, Stainless Steel Schedule 10 Type 316	2,840.49	748.15
For Work In Restricted Working Space, Add	480.95	
40 05 23 43-1061 EA 20" Reducer, Stainless Steel Schedule 10 Type 316	4,279.87	997.53
For Work In Restricted Working Space, Add	641.27	
40 05 23 43-1062 EA 24" Reducer, Stainless Steel Schedule 10 Type 316	6,698.02	1,496.30
For Work In Restricted Working Space, Add	961.91	
40 05 23 43-1063 Flanges (40 05 23 43-0968)		
40 05 23 43-1064 EA 1/2" Flanges, Stainless Steel Schedule 10 Type 316	83.52	23.84
For Work In Restricted Working Space, Add	14.31	
40 05 23 43-1065 EA 3/4" Flanges, Stainless Steel Schedule 10 Type 316	87.66	25.92
For Work In Restricted Working Space, Add	15.55	
40 05 23 43-1066 EA 1" Flanges, Stainless Steel Schedule 10 Type 316	105.29	34.73
For Work In Restricted Working Space, Add	20.84	
40 05 23 43-1067 EA 1-1/4" Flanges, Stainless Steel Schedule 10 Type 316	116.75	36.28
For Work In Restricted Working Space, Add	21.76	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1068 EA 1-1/2" Flanges, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	135.48 24.88	41.46
40 05 23 43-1069 EA 2" Flanges, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	161.33 27.97	46.64
40 05 23 43-1070 EA 2-1/2" Flanges, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	218.33 35.76	59.60
40 05 23 43-1071 EA 3" Flanges, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	241.70 41.33	68.92
40 05 23 43-1072 EA 4" Flanges, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	331.13 55.97	93.29
40 05 23 43-1073 EA 6" Flanges, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	501.06 82.95	138.37
40 05 23 43-1074 EA 8" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	883.70 96.19	149.63
40 05 23 43-1075 EA 10" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	1,349.26 112.22	174.57
40 05 23 43-1076 EA 12" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	1,867.48 128.25	199.51
40 05 23 43-1077 EA 14" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	2,476.07 160.32	249.39
40 05 23 43-1078 EA 16" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	3,311.08 192.38	299.26
40 05 23 43-1079 EA 18" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	3,441.31 224.45	349.14
40 05 23 43-1080 EA 20" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	4,742.08 272.60	423.95
40 05 23 43-1081 EA 24" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	10,621.24 352.53	548.65
40 05 23 43-1082 Slip-On Flanges (40 05 23 43-0968)		
40 05 23 43-1083 EA 1/2" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	140.98 31.10	51.82
40 05 23 43-1084 EA 3/4" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	146.00 31.10	51.82
40 05 23 43-1085 EA 1" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	172.91 38.26	63.74
40 05 23 43-1086 EA 1-1/4" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	190.39 41.35	68.92
40 05 23 43-1087 EA 1-1/2" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	212.27 45.40	75.67
40 05 23 43-1088 EA 2" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	246.96 49.72	82.92
40 05 23 43-1089 EA 2-1/2" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	303.64 55.97	93.29
40 05 23 43-1090 EA 3" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	332.60 62.15	103.65
40 05 23 43-1091 EA 4" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	453.40 83.34	138.89
40 05 23 43-1092 EA 6" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	686.55 124.26	207.30
40 05 23 43-1093 EA 8" Flange, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	1,910.97 192.38	299.26
40 05 23 43-1094 Caps (40 05 23 43-0968)		
40 05 23 43-1095 EA 1/2" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	71.50 14.31	23.84
40 05 23 43-1096 EA 3/4" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	78.94 15.55	25.92
40 05 23 43-1097 EA 1" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	99.32 20.53	34.21
40 05 23 43-1098 EA 1-1/4" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	107.14 21.76	36.28
40 05 23 43-1099 EA 1-1/2" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	120.00 24.88	41.46
40 05 23 43-1100 EA 2" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	131.54 27.97	46.64
40 05 23 43-1101 EA 2-1/2" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	163.68 35.76	59.60
40 05 23 43-1102 EA 3" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	187.19 41.33	68.92
40 05 23 43-1103 EA 4" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	271.00 55.35	92.25
40 05 23 43-1104 EA 6" Cap, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	365.47 82.95	138.37
40 05 23 43-1105 Reducing Tees (40 05 23 43-0968)		
40 05 23 43-1106 EA 3/4" Reducing Tees, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	196.00 37.64	75.15
40 05 23 43-1107 EA 1" Reducing Tees, Stainless Steel Schedule 10 Type 316 For Work In Restricted Working Space, Add	242.03 46.13	92.25

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1108 EA 1-1/4" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	269.97 51.83	103.65
40 05 23 43-1109 EA 1-1/2" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	303.08 59.08	118.17
40 05 23 43-1110 EA 2" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	336.21 63.49	126.98
40 05 23 43-1111 EA 2-1/2" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	480.59 69.19	138.37
40 05 23 43-1112 EA 3" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	492.72 82.93	165.85
40 05 23 43-1113 EA 4" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	610.35 103.65	207.30
40 05 23 43-1114 EA 6" Reducing Tees, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	1,048.34 118.43	236.84
40 05 23 43-1115 EA 8" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	1,784.27 160.32	299.26
40 05 23 43-1116 EA 10" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	3,787.56 213.76	399.01
40 05 23 43-1117 EA 12" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	4,958.49 320.63	598.52
40 05 23 43-1118 EA 14" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	6,380.52 385.20	719.22
40 05 23 43-1119 EA 16" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	7,001.87 469.88	877.33
40 05 23 43-1120 EA 18" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	8,477.91 598.52	1,117.23
40 05 23 43-1121 EA 20" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	11,262.22 787.53	1,470.07
40 05 23 43-1122 EA 24" Reducing Tee, Stainless Steel Schedule 10 Type 316 <i>For Work In Restricted Working Space, Add</i>	16,863.51 1,195.98	2,233.28
40 05 23 43-1123 Type 316 Schedule 40 Pipe And Welded Butt Fittings (40 05 23 43-0231)		
40 05 23 43-1124 Pipe (40 05 23 43-1123)		
40 05 23 43-1125 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.48 2.80	4.66
40 05 23 43-1126 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.67 3.42	5.70
40 05 23 43-1127 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	28.94 4.01	6.74
40 05 23 43-1128 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.18 5.02	8.29
40 05 23 43-1129 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	41.64 5.66	9.33
40 05 23 43-1130 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	53.29 7.01	11.92
40 05 23 43-1131 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	65.93 8.00	13.47
40 05 23 43-1132 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	64.59 9.01	15.03
40 05 23 43-1133 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	105.44 10.67	17.62
40 05 23 43-1134 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	163.44 14.01	23.33
40 05 23 43-1135 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	281.76 24.49	37.90
40 05 23 43-1136 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	356.63 26.93	41.90
40 05 23 43-1137 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	444.43 29.93	46.38
40 05 23 43-1138 90 Degree Elbows (40 05 23 43-1123)		
40 05 23 43-1139 EA 1/2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	139.00 35.45	59.08
40 05 23 43-1140 EA 3/4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	146.25 37.62	62.71
40 05 23 43-1141 EA 1" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	161.51 41.36	68.92
40 05 23 43-1142 EA 1-1/4" 90 Degree Elbow, Stainless Steel Schedule 40, Type 316 <i>For Work In Restricted Working Space, Add</i>	185.72 45.11	75.15
40 05 23 43-1143 EA 1-1/2" 90 Degree Elbow, Stainless Steel Schedule 40, Type 316 <i>For Work In Restricted Working Space, Add</i>	195.22 49.71	82.92
40 05 23 43-1144 EA 2" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	223.95 55.38	92.25
40 05 23 43-1145 EA 2-1/2" 90 Degree Elbow, Stainless Steel Schedule 40, Type 316 <i>For Work In Restricted Working Space, Add</i>	318.03 70.82	118.17
40 05 23 43-1146 EA 3" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	387.62 82.91	138.37
40 05 23 43-1147 EA 4" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	527.89 99.35	165.85
40 05 23 43-1148 EA 6" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	1,069.53 124.12	207.30



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Stainless Steel Process Pipe and Tubing			40 05 23

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
40 05 23 43-1149	EA	8" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,742.06 192.38	299.26
40 05 23 43-1150	EA	10" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	3,185.42 256.51	399.01
40 05 23 43-1151	EA	12" 90 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	4,502.93 384.76	598.52
40 05 23 43-1152 45 Degree Elbows (40 05 23 43-1123)				
40 05 23 43-1153	EA	1/2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	147.67 35.45	59.08
40 05 23 43-1154	EA	3/4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	154.92 37.62	62.71
40 05 23 43-1155	EA	1" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	167.36 41.36	68.92
40 05 23 43-1156	EA	1-1/4" 45 Degree Elbow, Stainless Steel Schedule 40, Type 316 <i>For Work In Restricted Working Space, Add</i>	179.75 45.07	75.15
40 05 23 43-1157	EA	1-1/2" 45 Degree Elbow, Stainless Steel Schedule 40, Type 316 <i>For Work In Restricted Working Space, Add</i>	205.26 49.77	82.92
40 05 23 43-1158	EA	2" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	225.94 55.38	92.25
40 05 23 43-1159	EA	2-1/2" 45 Degree Elbow, Stainless Steel Schedule 40, Type 316 <i>For Work In Restricted Working Space, Add</i>	314.69 70.87	118.17
40 05 23 43-1160	EA	3" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	355.19 83.02	138.37
40 05 23 43-1161	EA	4" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	469.63 99.44	165.85
40 05 23 43-1162	EA	6" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	808.08 124.38	207.30
40 05 23 43-1163	EA	8" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,367.32 192.38	299.26
40 05 23 43-1164	EA	10" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,248.58 256.51	399.01
40 05 23 43-1165	EA	12" 45 Degree Elbow, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	3,085.96 384.76	598.52
40 05 23 43-1166 Tees (40 05 23 43-1123)				
40 05 23 43-1167	EA	1/2" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	219.27 45.05	75.15
40 05 23 43-1168	EA	3/4" Tees, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	253.45 55.31	92.25
40 05 23 43-1169	EA	1" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	276.23 62.14	103.65
40 05 23 43-1170	EA	1-1/4" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	347.57 70.90	118.17
40 05 23 43-1171	EA	1-1/2" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	322.74 76.10	126.98
40 05 23 43-1172	EA	2" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	349.19 82.97	138.37
40 05 23 43-1173	EA	2-1/2" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	528.19 99.44	165.85
40 05 23 43-1174	EA	3" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	572.05 124.54	207.30
40 05 23 43-1175	EA	4" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	679.10 139.79	233.22
40 05 23 43-1176	EA	6" Tees, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,261.24 186.56	310.96
40 05 23 43-1177	EA	8" Tee, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,576.48 256.51	399.01
40 05 23 43-1178	EA	10" Tee, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	4,561.49 384.76	598.52
40 05 23 43-1179	EA	12" Tee, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	5,701.85 480.95	748.15
40 05 23 43-1180 Reducers (40 05 23 43-1123)				
40 05 23 43-1181	EA	3/4" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	155.18 34.23	57.01
40 05 23 43-1182	EA	1" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	171.79 37.30	62.19
40 05 23 43-1183	EA	1-1/4" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	211.91 41.35	68.92
40 05 23 43-1184	EA	1-1/2" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	181.94 45.07	75.15
40 05 23 43-1185	EA	2" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	200.26 49.77	82.92
40 05 23 43-1186	EA	2-1/2" Reducer, Stainless Steel Schedule 40 Type 316 <i>For Work In Restricted Working Space, Add</i>	259.38 62.19	103.65
40 05 23 43-1187	EA	3" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	287.54 70.80	118.17
40 05 23 43-1188	EA	4" Reducer, Stainless Steel Schedule 40 Type 316..... <i>For Work In Restricted Working Space, Add</i>	334.70 82.97	138.37

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1189 EA 6" Reducer, Stainless Steel Schedule 40 Type 316.....	431.36	176.21
For Work In Restricted Working Space, Add	105.62	
40 05 23 43-1190 EA 8" Reducer, Stainless Steel Schedule 40 Type 316.....	876.45	239.41
For Work In Restricted Working Space, Add	153.91	
40 05 23 43-1191 EA 10" Reducer, Stainless Steel Schedule 40 Type 316.....	1,146.74	299.26
For Work In Restricted Working Space, Add	192.38	
40 05 23 43-1192 EA 12" Reducer, Stainless Steel Schedule 40 Type 316.....	1,524.27	399.01
For Work In Restricted Working Space, Add	256.51	
40 05 23 43-1193 Flanges (40 05 23 43-1123)		
40 05 23 43-1194 EA 1/2" Flanges, Stainless Steel Schedule 40 Type 316	87.82	23.84
For Work In Restricted Working Space, Add	14.31	
40 05 23 43-1195 EA 3/4" Flanges, Stainless Steel Schedule 40 Type 316	91.96	25.92
For Work In Restricted Working Space, Add	15.55	
40 05 23 43-1196 EA 1" Flanges, Stainless Steel Schedule 40 Type 316	109.59	34.73
For Work In Restricted Working Space, Add	20.84	
40 05 23 43-1197 EA 1-1/4" Flanges, Stainless Steel Schedule 40 Type 316	122.05	36.28
For Work In Restricted Working Space, Add	21.76	
40 05 23 43-1198 EA 1-1/2" Flanges, Stainless Steel Schedule 40 Type 316	141.78	41.46
For Work In Restricted Working Space, Add	24.88	
40 05 23 43-1199 EA 2" Flanges, Stainless Steel Schedule 40 Type 316	169.50	46.64
For Work In Restricted Working Space, Add	27.97	
40 05 23 43-1200 EA 2-1/2" Flanges, Stainless Steel Schedule 40 Type 316	230.22	59.60
For Work In Restricted Working Space, Add	35.76	
40 05 23 43-1201 EA 3" Flanges, Stainless Steel Schedule 40 Type 316	254.17	68.92
For Work In Restricted Working Space, Add	41.33	
40 05 23 43-1202 EA 4" Flanges, Stainless Steel Schedule 40 Type 316	348.47	93.29
For Work In Restricted Working Space, Add	55.97	
40 05 23 43-1203 EA 6" Flanges, Stainless Steel Schedule 40 Type 316	528.01	138.37
For Work In Restricted Working Space, Add	82.95	
40 05 23 43-1204 EA 8" Flange, Stainless Steel Schedule 40 Type 316	951.27	149.63
For Work In Restricted Working Space, Add	96.19	
40 05 23 43-1205 EA 10" Flange, Stainless Steel Schedule 40 Type 316	1,466.28	174.57
For Work In Restricted Working Space, Add	112.22	
40 05 23 43-1206 EA 12" Flange, Stainless Steel Schedule 40 Type 316	2,040.27	199.51
For Work In Restricted Working Space, Add	128.25	
40 05 23 43-1207 Slip-On Flanges (40 05 23 43-1123)		
40 05 23 43-1208 EA 1/2" Flange, Stainless Steel Schedule 40 Type 316	145.45	51.82
For Work In Restricted Working Space, Add	31.10	
40 05 23 43-1209 EA 3/4" Flange, Stainless Steel Schedule 40 Type 316	151.08	51.82
For Work In Restricted Working Space, Add	31.10	
40 05 23 43-1210 EA 1" Flange, Stainless Steel Schedule 40 Type 316	178.36	63.74
For Work In Restricted Working Space, Add	38.26	
40 05 23 43-1211 EA 1-1/4" Flange, Stainless Steel Schedule 40 Type 316	196.69	68.92
For Work In Restricted Working Space, Add	41.35	
40 05 23 43-1212 EA 1-1/2" Flange, Stainless Steel Schedule 40 Type 316	219.58	75.67
For Work In Restricted Working Space, Add	45.40	
40 05 23 43-1213 EA 2" Flange, Stainless Steel Schedule 40 Type 316	256.70	82.92
For Work In Restricted Working Space, Add	49.72	
40 05 23 43-1214 EA 2-1/2" Flange, Stainless Steel Schedule 40 Type 316	317.69	93.29
For Work In Restricted Working Space, Add	55.97	
40 05 23 43-1215 EA 3" Flange, Stainless Steel Schedule 40 Type 316	347.65	103.65
For Work In Restricted Working Space, Add	62.15	
40 05 23 43-1216 EA 4" Flange, Stainless Steel Schedule 40 Type 316	474.47	138.89
For Work In Restricted Working Space, Add	83.34	
40 05 23 43-1217 EA 6" Flange, Stainless Steel Schedule 40 Type 316	719.23	207.30
For Work In Restricted Working Space, Add	124.26	
40 05 23 43-1218 EA 8" Flange, Stainless Steel Schedule 40 Type 316	2,063.33	299.26
For Work In Restricted Working Space, Add	192.38	
40 05 23 43-1219 Caps (40 05 23 43-1123)		
40 05 23 43-1220 EA 1/2" Cap, Stainless Steel Schedule 40 Type 316.....	74.35	23.84
For Work In Restricted Working Space, Add	14.31	
40 05 23 43-1221 EA 3/4" Cap, Stainless Steel Schedule 40 Type 316.....	82.20	25.92
For Work In Restricted Working Space, Add	15.55	
40 05 23 43-1222 EA 1" Cap, Stainless Steel Schedule 40 Type 316.....	103.03	34.21
For Work In Restricted Working Space, Add	20.53	
40 05 23 43-1223 EA 1-1/4" Cap, Stainless Steel Schedule 40 Type 316	111.29	36.28
For Work In Restricted Working Space, Add	21.76	
40 05 23 43-1224 EA 1-1/2" Cap, Stainless Steel Schedule 40 Type 316	124.45	41.46
For Work In Restricted Working Space, Add	24.88	
40 05 23 43-1225 EA 2" Cap, Stainless Steel Schedule 40 Type 316.....	136.13	46.64
For Work In Restricted Working Space, Add	27.97	
40 05 23 43-1226 EA 2-1/2" Cap, Stainless Steel Schedule 40 Type 316	169.02	59.60
For Work In Restricted Working Space, Add	35.76	
40 05 23 43-1227 EA 3" Cap, Stainless Steel Schedule 40 Type 316.....	193.12	68.92
For Work In Restricted Working Space, Add	41.33	
40 05 23 43-1228 EA 4" Cap, Stainless Steel Schedule 40 Type 316.....	281.38	92.25
For Work In Restricted Working Space, Add	55.35	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1229 EA 6" Cap, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	376.14 82.95	138.37
40 05 23 43-1230 Reducing Tees (40 05 23 43-1123)		
40 05 23 43-1231 EA 1/2" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	201.11 37.53	75.15
40 05 23 43-1232 EA 3/4" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	229.58 46.07	92.25
40 05 23 43-1233 EA 1" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	248.61 51.78	103.65
40 05 23 43-1234 EA 1-1/4" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	319.22 59.05	118.17
40 05 23 43-1235 EA 1-1/2" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	287.29 63.39	126.98
40 05 23 43-1236 EA 2" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	310.33 69.14	138.37
40 05 23 43-1237 EA 2-1/2" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	492.55 82.84	165.85
40 05 23 43-1238 EA 3" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	518.67 103.82	207.30
40 05 23 43-1239 EA 4" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	622.82 116.51	233.22
40 05 23 43-1240 EA 6" Reducing Tees, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	1,221.17 155.35	310.96
40 05 23 43-1241 EA 8" Reducing Tee, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	2,606.11 213.76	399.01
40 05 23 43-1242 EA 10" Reducing Tee, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	4,675.62 320.63	598.52
40 05 23 43-1243 EA 12" Reducing Tee, Stainless Steel Schedule 40 Type 316 For Work In Restricted Working Space, Add	5,844.53 400.79	748.15
40 05 23 43-1244 Valves (40 05 23 43-0231)		
40 05 23 43-1245 Gate Valves, Class 150 (40 05 23 43-1244)		
40 05 23 43-1246 EA 1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	529.24 31.77 -113.24 397.94	52.95
40 05 23 43-1247 EA 3/4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	567.15 33.44 -121.90 428.35	55.73
40 05 23 43-1248 EA 1" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	665.91 33.44 -148.31 521.17	55.73
40 05 23 43-1249 EA 1-1/4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	856.43 44.48 -189.44 665.68	74.13
40 05 23 43-1250 EA 1-1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	971.18 55.85 -210.00 737.93	93.07
40 05 23 43-1251 EA 2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,176.50 74.24 -248.51 873.28	123.72
40 05 23 43-1252 EA 2-1/2" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	1,704.86 95.65 1,302.86	159.40
40 05 23 43-1253 EA 3" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	1,925.02 111.32 1,460.73	185.59
40 05 23 43-1254 EA 4" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	2,462.62 142.42 1,868.63	237.42
40 05 23 43-1255 EA 6" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	4,012.76 167.20 3,248.11	278.66
40 05 23 43-1256 EA 8" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	8,543.63 190.86 7,432.97	318.24
40 05 23 43-1257 EA 10" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	12,018.60 234.17 10,563.75	390.13
40 05 23 43-1258 EA 12" Gate Valve, Stainless Steel, Flanged For Work In Restricted Working Space, Add For Class 300, Add	18,048.51 283.68 16,076.74	472.61
40 05 23 43-1259 Globe Valves, Class 150 (40 05 23 43-1244)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 43-1260 EA 1/2" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	703.88 31.76 -159.97 562.15	52.95
40 05 23 43-1261 EA 3/4" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	770.15 33.44 -176.20 619.17	55.73
40 05 23 43-1262 EA 1" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	931.70 35.10 -217.93 765.82	58.51
40 05 23 43-1263 EA 1-1/2" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,399.47 55.83 -324.58 1,140.58	93.07
40 05 23 43-1264 EA 2" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,729.53 74.24 -396.45 1,393.15	123.72
40 05 23 43-1265 EA 2-1/2" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	3,438.84 95.61 2,932.94	159.40
40 05 23 43-1266 EA 3" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	3,577.87 111.32 3,014.41	185.59
40 05 23 43-1267 EA 4" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	4,201.55 142.42 3,503.22	237.42
40 05 23 43-1268 EA 6" Globe Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	7,620.97 167.20 6,639.83	278.66
40 05 23 43-1269 Check Valves, Class 150 (40 05 23 43-1244)		
40 05 23 43-1270 EA 2-1/2" Check Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	1,638.19 95.61 1,240.33	159.40
40 05 23 43-1271 EA 3" Check Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	1,731.70 111.32 1,279.01	185.59
40 05 23 43-1272 EA 4" Check Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	2,592.29 142.42 1,990.52	237.42
40 05 23 43-1273 EA 6" Check Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	4,341.92 167.20 3,557.52	278.66
40 05 23 43-1274 EA 8" Check Valve, Stainless Steel, Flanged..... For Work In Restricted Working Space, Add For Class 300, Add	7,484.53 190.86 6,437.42	318.24
40 05 23 43-1275 Type 316 Seamless Annealed Tubing (40 05 23 43) Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 43-1276 Type 316 Seamless Annealed Tubing (40 05 23 43-1275)		
40 05 23 43-1277 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness.....	17.67	
40 05 23 43-1278 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness.....	21.45	
40 05 23 43-1279 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness.....	25.82	
40 05 23 43-1280 Type 316 Seamless Annealed Tubing Fittings (40 05 23 43-1275) Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 43-1281 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	61.01	
40 05 23 43-1282 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	61.90	
40 05 23 43-1283 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules.....	94.71	
40 05 23 43-1284 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	53.55	
40 05 23 43-1285 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	88.51	
40 05 23 43-1286 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	69.02	
40 05 23 43-1287 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	82.20	
40 05 23 43-1288 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	126.31	
40 05 23 43-1289 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	79.73	
40 05 23 43-1290 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	124.31	
40 05 23 43-1291 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	80.50	
40 05 23 43-1292 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	102.66	
40 05 23 43-1293 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	168.17	
40 05 23 43-1294 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	137.76	
40 05 23 43-1295 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	170.72	
40 05 23 43-1296 Valves For High Pressure Air (5,000 PSIG) (40 05 23 43-1275)		
40 05 23 43-1297 Needle Valves (40 05 23 43-1296)		
40 05 23 43-1298 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	292.84	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 23 43-1299	EA	1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	460.60	
40 05 23 43-1300		Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 43-1296)		
40 05 23 43-1301	EA	1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	279.81	
40 05 23 43-1302		Other Valves Working Pressure 6,000 PSI (40 05 23 43-1296)		
40 05 23 43-1303	EA	1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,134.21	
40 05 23 43-1304	EA	1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	290.71	
40 05 23 43-1305	EA	Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	59.94	

END OF SECTION 40

40	40	Process Interconnections	
	40 05	Common Work Results For Process Interconnections	
	40 05 23	Stainless Steel Process Pipe and Tubing	



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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Material Processing And Handling Equipment			41
Operation And Maintenance Of Material Processing And Handling Equipment			41 01
Operation And Maintenance Of Piece Material Handling Equipment			41 01 20

41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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41 Material Processing And Handling Equipment

41 01 Operation And Maintenance Of Material Processing And Handling Equipment⁽⁴¹⁾

41 01 20 Operation And Maintenance Of Piece Material Handling Equipment^(41 01)

41 01 20 00-0001 Maintenance^(41 01 20)

41 01 20 00-0002	EA	Regular Inspection.....	341.35	
41 01 20 00-0003	HR	Hoist Or Crane Servicing, Labor Only.....	98.47	
41 01 20 00-0004	MO	Hoist Or Crane Maintenance Contract.....	581.75	

41 20 Piece Material Handling Equipment⁽⁴¹⁾

41 22 Cranes And Hoists^(41 20)

41 22 23 Hoists^(41 22)

41 22 23 13 Fixed Hoists^(41 22 23)

41 22 23 13-0001 Air-Powered Chain Hoists^(41 22 23 13)

Note: Excludes beam.

41 22 23 13-0002	EA	500 LB Capacity, Air-Powered Chain Hoist	3,733.60	315.76
41 22 23 13-0003	EA	1,000 LB Capacity, Air-Powered Chain Hoist	3,774.48	315.76
41 22 23 13-0004	EA	2,000 LB Capacity, Air-Powered Chain Hoist	4,519.50	315.76
41 22 23 13-0005	EA	4,000 LB Capacity, Air-Powered Chain Hoist	5,699.73	421.01
41 22 23 13-0006	EA	6,000 LB Capacity, Air-Powered Chain Hoist	7,205.94	526.27
41 22 23 13-0007	EA	8,000 LB Capacity, Air-Powered Chain Hoist	8,494.83	773.40
41 22 23 13-0008	EA	10,000 LB Capacity, Air-Powered Chain Hoist	9,832.06	934.12
41 22 23 13-0009	EA	12,000 LB Capacity, Air-Powered Chain Hoist	10,909.33	934.12

41 22 23 13-0010 Electric Hoists^(41 22 23 13)

41 22 23 13-0011 Electric Industrial Chain Hoists^(41 22 23 13-0010)

Note: Includes 20' of chain. Excludes beams.

41 22 23 13-0012	EA	500 LB Capacity, Electric Industrial Chain Hoist.....	2,698.13	305.23
For DC Electrical Operated, Add			521.45	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0013	EA	1,000 LB Capacity, Electric Industrial Chain Hoist.....	2,812.49	305.23
For DC Electrical Operated, Add			549.63	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0014	EA	2,000 LB Capacity, Electric Industrial Chain Hoist.....	3,101.24	305.23
For DC Electrical Operated, Add			619.30	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0015	EA	3,000 LB Capacity, Electric Industrial Chain Hoist.....	4,634.04	315.76
For DC Electrical Operated, Add			995.84	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0016	EA	4,000 LB Capacity, Electric Industrial Chain Hoist.....	4,007.38	315.76
For DC Electrical Operated, Add			837.29	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0017	EA	5,000 LB Capacity, Electric Industrial Chain Hoist.....	5,694.82	326.28
For DC Electrical Operated, Add			1,250.68	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0018	EA	6,000 LB Capacity, Electric Industrial Chain Hoist.....	5,175.98	357.86
For DC Electrical Operated, Add			1,091.52	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0019	EA	7,500 LB Capacity, Electric Industrial Chain Hoist.....	6,376.98	442.06
For DC Electrical Operated, Add			1,386.61	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0020	EA	10,000 LB Capacity, Electric Industrial Chain Hoist.....	7,520.28	457.91
For DC Electrical Operated, Add			1,682.02	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0021	EA	15,000 LB Capacity, Electric Industrial Chain Hoist.....	12,063.02	477.83
For DC Electrical Operated, Add			2,776.63	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0022	EA	20,000 LB Capacity, Electric Industrial Chain Hoist.....	14,435.44	497.74
For DC Electrical Operated, Add			3,359.39	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0023	EA	25,000 LB Capacity, Electric Industrial Chain Hoist.....	19,933.98	517.64
For DC Electrical Operated, Add			4,723.40	
For Each LF Copper Conductor Bar, Add			10.50	
41 22 23 13-0024	EA	30,000 LB Capacity, Electric Industrial Chain Hoist.....	25,491.30	567.42
For DC Electrical Operated, Add			6,087.72	
For Each LF Copper Conductor Bar, Add			10.50	

41 Material Processing And Handling Equipment**41 20 Piece Material Handling Equipment****41 22 Cranes And Hoists**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
41 22 23 13-0025			Hand Chain Hoists (41 22 23 13)			
41 22 23 13-0026	EA		1,000 LB Capacity, Hand Chain Hoist.....	994.72		123.79
41 22 23 13-0027	EA		2,000 LB Capacity, Hand Chain Hoist.....	1,158.10		125.48
41 22 23 13-0028	EA		3,000 LB Capacity, Hand Chain Hoist.....	1,529.21		131.41
41 22 23 13-0029	EA		4,000 LB Capacity, Hand Chain Hoist.....	1,711.17		133.12
41 22 23 13-0030	EA		5,000 LB Capacity, Hand Chain Hoist.....	2,050.98		139.90
41 22 23 13-0031	EA		6,000 LB Capacity, Hand Chain Hoist.....	2,301.69		163.63
41 22 23 13-0032	EA		10,000 LB Capacity, Hand Chain Hoist.....	3,152.15		168.72
41 22 23 13-0033	EA		16,000 LB Capacity, Hand Chain Hoist.....	4,104.83		203.49
41 22 23 13-0034	EA		20,000 LB Capacity, Hand Chain Hoist.....	4,989.25		212.81
41 22 23 13-0035	EA		30,000 LB Capacity, Hand Chain Hoist.....	8,703.65		243.34

END OF SECTION 41



Process Gas and Liquid Handling, Purification, and Storage Equipment

43

Liquid Handling Equipment 43 20

Dry Location Liquid Pumps 43 23

43

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 20 Liquid Handling Equipment ⁽⁴³⁾

43 23 Dry Location Liquid Pumps ^(43 20)

43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)

43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)

43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI 2,540.02

43 24 Suspended Liquid Pumps ^(43 20)

43 24 41 Archimedes Screw Pumps ^(43 24)

43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)

43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)

43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing..... 2,110.98

43 40 Gas and Liquid Storage ⁽⁴³⁾

43 41 Non-pressurized Tanks And Vessels ^(43 40)

43 41 31 Metallic Specialty Tanks ^(43 41)

43 41 31 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 41 31)

43 41 31 00-0002	EA	250 Gallon LP Gas Storage Tank	1,902.26	64.10
43 41 31 00-0003	EA	500 Gallon LP Gas Storage Tank	2,584.98	76.93
43 41 31 00-0004	EA	1,000 Gallon LP Gas Storage Tank	4,476.67	89.74

END OF SECTION 43

43	43	Process Gas and Liquid Handling, Purification, and Storage Equipment
	43 40	Gas and Liquid Storage
	43 41	Non-pressurized Tanks And Vessels



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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